

# Energie: Jährliche Statistiken

**Daten 1999**

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# Energy: Yearly statistics

**Data 1999**

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# Énergie: statistiques annuelles

**Données 1999**

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THEMENKREIS 8 – THEME 8 – THÈME 8  
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Pour plus d'informations, visitez le site Internet d'Eurostat:

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Zahlreiche weitere Informationen zur Europäischen Union sind verfügbar über Internet, Server Europa (<http://europa.eu.int>).

A great deal of additional information on the European Union is available on the Internet.

It can be accessed through the Europa server (<http://europa.eu.int>).

De nombreuses autres informations sur l'Union européenne sont disponibles sur Internet via le serveur Europa (<http://europa.eu.int>).

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**DE** Eurostat ist das Statistische Amt der Europäischen Gemeinschaften. Es hat den Auftrag, die Union mit europäischen Statistiken zu versorgen, die Vergleiche zwischen Ländern und Regionen ermöglichen. Eurostat konsolidiert und harmonisiert die in den Mitgliedstaaten erhobenen Daten.

Um die weite Verbreitung der gewaltigen verfügbaren Datenmenge zu gewährleisten und den einzelnen Nutzern zu helfen, diese Informationen richtig zu verwenden, hat Eurostat sein Veröffentlichungs- und Dienstleistungsprogramm geschaffen. Um sich gezielt an das breite Publikum oder an Fachleute wenden zu können, wurden für die einzelnen Nutzergruppen spezielle Reihen entwickelt.

Im Rahmen des neuen Programms hat Eurostat eine Web-Seite entwickelt. Sie umfaßt ein breites Angebot von Online-Informationen über die Erzeugnisse und Dienstleistungen, Pressemitteilungen, Kataloge, Online-Veröffentlichungen sowie Indikatoren für die Eurozone.

**Yves Franchet**  
Generaldirektor

**EN** Eurostat is the Statistical Office of the European Communities. Its task is to provide the European Union with statistics at a European level, that allow comparisons to be made between countries and regions. Eurostat consolidates and harmonizes the data collected by the Member States.

To ensure that the vast quantity of accessible data is made widely available, and to help each user make proper use of the information, Eurostat has set up a publications and services programme.

As part of the new programme Eurostat has developed its website. It includes a broad range of on-line information on Eurostat products and services, newsletters, catalogues, on-line publications as well as indicators on the euro-zone.

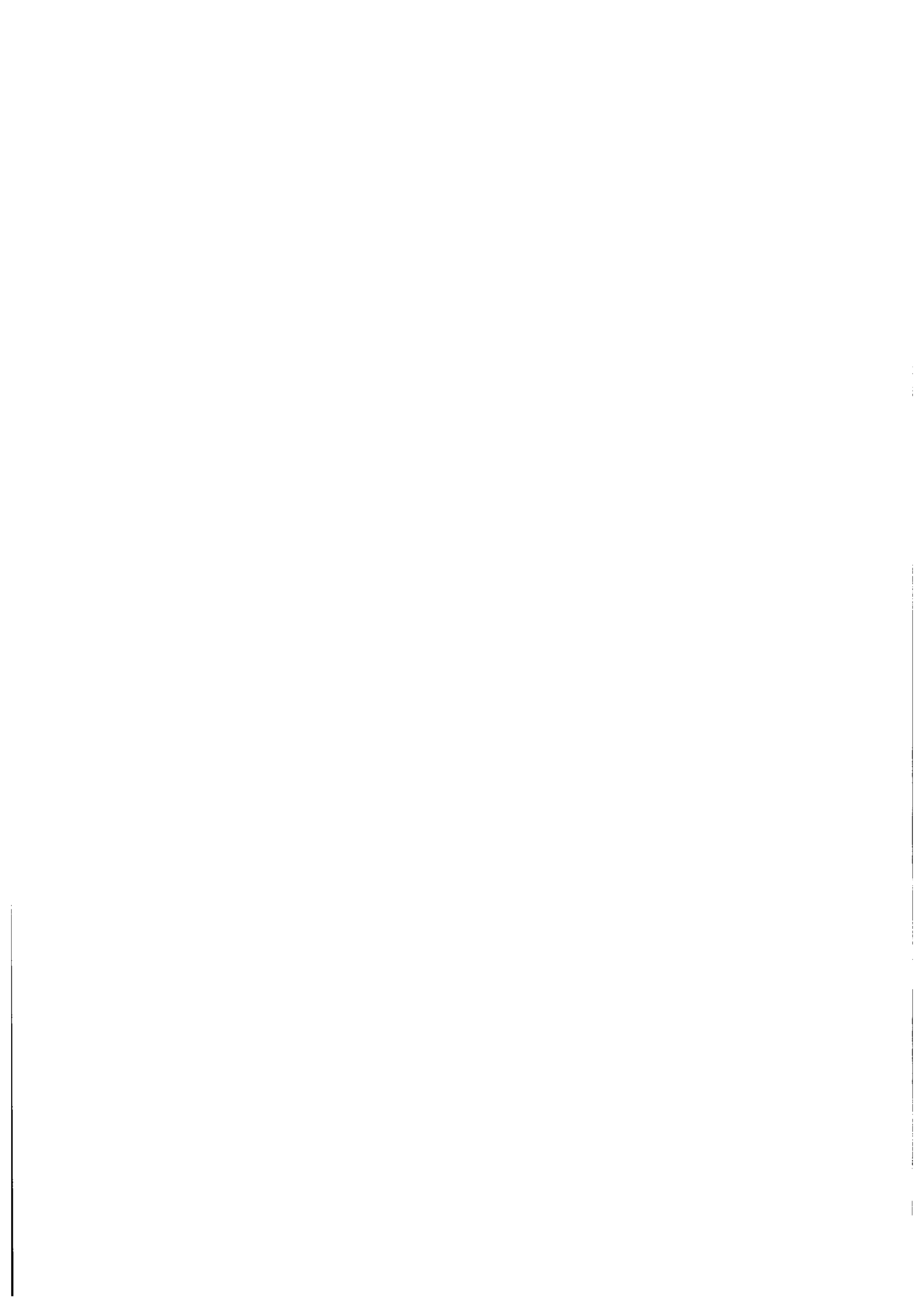
**Yves Franchet**  
Director-General

**FR** Eurostat est l'Office statistique des Communautés européennes. Il a pour tâche de fournir à l'Union européenne des statistiques au niveau européen, qui permettent des comparaisons entre pays et régions. Eurostat consolide et harmonise les données collectées par les États membres.

Pour assurer que l'ensemble des données disponibles soit largement accessible et pour aider chaque utilisateur à faire bon usage de toute cette information, Eurostat a mis en place un programme de publications et de services.

Dans le cadre du nouveau programme, Eurostat a développé son site Internet. Celui-ci comprend toute une série d'informations en ligne sur les produits et les services d'Eurostat, ses bulletins d'information, ses catalogues et ses publications en ligne ainsi que des indicateurs sur la zone euro.

**Yves Franchet**  
Directeur-Général



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# BEMERKUNGEN

Die Veröffentlichung *Energie - Jährliche Statistiken* verfolgt den Zweck, einen geschlossenen Komplex harmonisierter statistischer Informationen über die Energiewirtschaft der Europäischen Union und ihrer Mitgliedstaaten, insbesondere über das letzte Jahr, für das Daten vorliegen, zusammenzustellen. Die Information ist daher besonders auf Energiebilanzen ausgerichtet, die das wichtigste Instrument einer Beurteilung der Energiewirtschaft darstellen. Die eher konjunkturbezogenen Angaben erschienen im Monatsbulletin *Energie*.

Das *erste Teil* des Jahrbuchs gibt einen Überblick über die charakteristischen Angaben der Energiewirtschaft unter analytischen Gesichtspunkten. Mit Indikatoren-Zeitreihen werden für die Europäische Union und jeden Mitgliedstaat Veränderungen der wichtigsten energiewirtschaftlichen Gesamtgrößen im Vergleich zu denen der Gesamtwirtschaft dargestellt und die Strukturveränderungen näher beleuchtet, die in den letzten Jahren stattgefunden haben.

Der *zweite Teil* gibt für die Energiewirtschaft insgesamt sowie für alle Erzeugnisse einen allgemeinen Überblick über die wichtigsten Gesamtgrößen, wobei diese in einer gemeinsamen Einheit (t RÖE) ausgewiesen werden. Diese Reihen sind den zusammengefaßten Energiebilanzen für den Zeitraum 1985-1993 entnommen.

Der *dritte Teil* enthält Zeitreihen über die einzelnen Energieträger für die wichtigsten Gesamtgrößen.

Dabei wird für jeden Energieträger eine spezifische Einheit benutzt : Tonnen für Kohle, Terajoule (TJ) für Gas.

Nähere Angaben zur Methode der Endenergiebilanzen sind der Veröffentlichung *Energiebilanzen - Prinzipien und Methoden* zu entnehmen.

## I. ENERGIETRÄGER

In der vorliegenden Veröffentlichung werden folgende Produkte berücksichtigt :

### Kohle und Derivate

*Steinkohle* : Kohle mit einem oberen Heizwert von mindestens 24 MJ/kg auf Naßprobe, *ohne Asche*; außerdem Mittelgut, Schlammkohle und Brandschiefer.

Spanien : Ab 1987 umfassen die Daten über die Steinkohle auch die ältere Braunkohle (lignito negro).

*Steinkohlenbriketts* : Üblicherweise durch Heißbrikkettierung und unter hohem Preßdruck mit Bindemittelzusatz (Teerpech) hergestellt.

*Koks* : Steinkohlenkoks, Gaskoks, Steinkohlenschwefelkoks, Formkoks und Braunkohlenkoks, Produkte aus Destillation von Stein- und Braunkohle.

*Braunkohle* : Kohle mit einem oberen Heizwert von weniger als 24 MJ/kg auf Naßprobe, ohne Asche, wie jüngere Braunkohle, ältere Braunkohle und Hartbraunkohle.

*Torf* : Brennstoff pflanzlichen Ursprungs, der nach Trocknen brennfähig ist.

*Braunkohlenbriketts* : durch Hochdruckverpressung hergestellt. In den Brikettmengen sind auch Trocken- und Staubkohle enthalten.

*Torfbriketts* : Durch Hochdruckbrikkettierung erzeugte Brennelemente.

*Teer, Teerpech, Benzol* : Bei der Steinkohledestillation in den Kokereien anfallende Nebenprodukte.



## Erdöl und Derivate

*Rohöl* : Mineralische Rohöle und bituminöse Mineralien (einschließlich halbraffinierten Erdöls und Erdgaskondensaten, falls diese destilliert werden).

*Energierohstoffe* : Raffinerie-Halbfertigerzeugnisse.

*Raffineriegas* : Nicht kondensierbares, hauptsächlich aus Wasserstoff, Ethan, Methan und Olefinen bestehendes Gas. Das durch die Trennung bei der Naturgaserzeugung entstandene gereinigte Ethan wird unter Produktion von Primärenergieträgern ausgewiesen.

*Flüssiggas* : Propan- und Butangas bzw. eine Mischung aus beiden Gasarten.

*Motorenbenzin* : Normalbenzin, Superbenzin, bleifreies Benzin, Flugbenzin sowie natürlicher Dieselmotorkraftstoff.

*Petroleum und Kerosin* : Leuchtpetroleum (für Heizung und Antrieb), leichte und schwere Flugturbinenkraftstoffe.

*Rohbenzin* : Leichtes, mittelschweres und schweres Rohbenzin.

*Dieselmotorkraftstoff und Destillat-Heizöl* : Dieselmotorkraftstoff für den Straßen- und Schiffsverkehr, Heizöl, leichtes Heizöl mit einer Viskosität von weniger als 10 cSt bei 80° C.

*Rückstandsheizöl* : Leichtes Heizöl mit einer Viskosität von mehr als 10 cSt bei 80° C.

*Spezial- und Testbenzin* : Leichtöle.

*Schmierstoffe* : Schmieröle und -fette (einschließlich Schmiermitteln, Weißöl, Isolieröl und Schneidöl).

*Bitumen* : Petrobitumen (einschließlich Bitumenmischungen und -emulsionen).

*Petrolkoks* : Festes Produkt aus Erdölrückständen.

*Sonstige Mineralölprodukte* : Wachs, Vaseline, Paraffine, Schwefel und sonstige Destillationsrückstände.

## Gas

*Naturgas* : Besteht im wesentlichen aus Methan, enthält jedoch geringe Anteile an anderen Gasen; umfaßt sowohl Erdgas als auch Erdölgas und Grubengas.

Ethan, Propan, Butan und die übrigen Kondensate werden nicht berücksichtigt, sofern sie gereinigt sind.

Sie werden als Produktion von Primärenergieträgern unter Erdöl und Derivaten ausgewiesen.

*Kokereigas* : Beim der Verkokung anfallendes Kuppelprodukt.

*Hochofengas* : Beim Hochofenprozeß anfallendes Kuppelprodukt.

*Ortsgas* : Sämtliche durch Destillation, Kracken, Reformieren oder Hydrierung gewonnenen Gase; unterscheiden sich von den Kokerei- und Hochofengasen durch die Tatsache, daß es sich hier nicht um Kuppelprodukte, sondern um Gewinnung in eigens dafür eingerichteten Anlagen handelt.

Bei Ortsgas handelt es sich immer um ein abgeleitetes Produkt aus Steinkohle, Raffineriegas, Flüssiggas, Rohbenzin, Gasölen, Rückstandsheizölen oder Naturgas. Sie enthalten also auf der Produktionsebene das Synthesegas.

## Erneuerbare Energien

Die erneuerbaren Energien umfassen Energiequellen, die als langfristig unerschöpflich gelten.

*Sonnenenergie* : die direkte Umwandlung von solarer Strahlungsenergie in Wärmeenergie und photovoltaischen Strom.

*Erdwärme* : natürliche Wärme der Erdkruste. Die geothermische Wärme umfaßt die direkte für die Beheizung von Gebäuden, aber auch die für die Stromerzeugung genutzte Wärme. Der erzeugte Strom wird in den Bilanzen wie auch die klassische Stromerzeugung als abgeleitete Elektrizitätserzeugung verbucht.

*Biomasse (und Abfälle)* : organische, nichtfossile Stoffe, die zur Energieerzeugung verwendet werden. Darunter fallen Holz und pflanzliche Abfälle (Abfälle aus der Holzindustrie und der Landwirtschaft), aber auch Schwarzlauge, Müll, Biogas (durch anaerobe Fermentation von Biomasse entstanden) sowie die Biobrennstoffe (Ethanol, Bioalkohol usw.).

*Windenergie* : elektrische Energie, die mit Hilfe von Windenergiewandlern (Windkraftanlagen) erzeugt wird. Die Primärenergieerzeugung geht in die Bilanz der elektrischen Energie ein.

*Wasserkraft* : potentielle und kinetische Energie des Wassers. Die Wasserkraft wird in der Form des von Wasserkraftanlagen erzeugten Stroms verbucht. Die Primärenergieerzeugung geht in die Bilanz der elektrischen Energie ein. Die von Pumpspeicherkraftwerken erzeugte Energie wird nicht berücksichtigt.

## Sonstige Brennstoffe

In der Industrie wiedergewonnenes Gas bzw. wiedergewonnene Wärme sowie nicht näher benannte Biomasse, die in herkömmlichen Wärmekraftwerken eingesetzt werden.

## Wärme

Wärme kann Primärenergie sein, wenn es sich um Erdwärme oder um die thermische Erzeugung von Kernkraftwerken handelt, oder auch um abgeleitete Energie, wie beispielsweise Dampf, der in kombinierten Heiz-Kraftwerken oder in Wärmekraftwerken erzeugt wird.

**Kernenergie** : Wird in Form der durch Uranspaltung in Reaktoren erzeugten Wärme aufgenommen. Diese Wärme wird als primär betrachtet und als Primärenergiegewinnung ausgewiesen. Die auf diese Weise verbuchte Wärme entspricht einer aus der Kernspaltung gewonnenen im Berichtsjahr verfügbaren Energiemenge.

## Elektrizität

Elektrizität aus Wasserkraftwerken mit natürlichem Zufluß, Wind, Erdwärme, herkömmlicher Wärmekraft und Kernkraft.

## II. GESAMTGRÖSSEN

**Erzeugung von Primärenergie** : Aus natürlichen Energieträgern gewonnene Energie: Steinkohle, Braunkohle, Rohöl, Naturgas, Erdwärme, Wasserkraft, Wind, Sonnenkraft und Biomasse. **Kernenergie** in Form von Spaltwärme wird ebenfalls als Primärenergie behandelt.

Die *anderen Brennstoffe*, die nur dann berücksichtigt werden, wenn es sich um Umwandlungseinsatz in den herkömmlichen Wärmekraftwerken handelt, gelten vereinbarungsgemäß als wiedergewonnene Produkte, denn um solche handelt es sich in den meisten Fällen.

Als Primärenergieproduktion an *Steinkohle* gilt die Nettoförderung der Zechen, d. h. die Bruttoproduktion (zutage gefördert Kohle) nach Eliminierung des Abfalls durch Sieben und Waschen. Im allgemeinen ist der Anfall an minderwertigen Produkten (Staub, Mittelgut, Schlamm) darin enthalten, während die Wiedergewinnungsprodukte unberücksichtigt bleiben. Die Förderung umfaßt auch die Kohlegewinnung der Kleinzechen und Tagebaubetriebe.

Die *Rohölproduktion* schließt die Gewinnung von Naturbenzin und sonstigen Kondensaten, die bei Förderung, Reinigung und Stabilisierung von Naturgas anfallen, nur in den Fällen ein, in denen diese Produkte in den Raffinerien umgewandelt werden.

Die Produktion von *Mineralölerzeugnissen* umfaßt auch flüssiges Gas (GPL) und Naturbenzin sowie andere Produkte, die bei der Förderung anfallen und zur Reinigung und Anreicherung des Naturgases, so wie sie sind, verbraucht werden können.

Die *Naturgasproduktion* umfaßt gereinigtes Naturgas nach Ausscheidung der Ballaststoffe. Die Daten verstehen sich weiterhin nach Abzug der durch Abblasen, Fackeln und Produktionsversuche eliminierten sowie der in die Lagerstätten eingepreßten Mengen.

Die Produktionsdaten schließen jedoch den *Eigenverbrauch* beim Erzeuger ein.

**Einfuhr** : Die Einfuhr umfaßt die in das Hoheitsgebiet eines Landes eingeführte Gesamtenergiemenge, nicht aber den *Transit* vor allem über Gas- und Erdölföhrleitungen; eine Ausnahme bildet Elektrizität, deren Transit stets als Außenhandel verbucht wird.

Die Einfuhrdaten stammen im allgemeinen aus den Meldungen der Importeure; sie können daher von den in die Außenhandelsstatistiken übernommenen Daten der Zollbehörden abweichen.

Die Einfuhr von Rohöl und Mineralölprodukten umfaßt hauptsächlich a) zur Lohnverarbeitung für ausländische Rechnung bestimmte Mengen; b) vorübergehend eingeführte Mengen; c) in Zollausschlußlager eingeführte Mengen; d) in Speziallager für ausländische Rechnung eingeführte Mengen; e) Einfuhren aus überseeischen Gebieten und Territorien unter nationaler Hoheitsgewalt.

Die Gesamteinfuhr der Europäische Union (EU-15 und EU-12) umfaßt auch den *Inner-EU-Handel*.

**Bestandsveränderungen** : Unter Bestandsveränderungen versteht man die Differenz der Energiebestände der Produzenten, Importeure, Naturgas-Vertriebsgesellschaften, Umwandlungsbetriebe und gewerblichen Großabnehmern zu Beginn und Ende des Bezugszeitraums + bedeutet *Abbau der Bestände* und somit Erhöhung der verfügbaren Energiemengen, - eine *Aufstockung der Bestände*, also eine Verringerung der für den Verbrauch verfügbaren Energiemengen.

**Ausfuhr** : Im allgemeinen gelten hier dieselben Regeln wie für die Einfuhr.

Die Ausfuhr an Rohöl- und Mineralölprodukten umfaßt darüber hinaus a) sämtliche nach Behandlung oder Umwandlung wiederausgeführten Mengen; b) die Mengen für die im Ausland stationierten in- und ausländischen Truppen (sofern die Geheimhaltungsbestimmungen dies gestatten).

**Bunker für die Seeschifffahrt** : Versorgung der Hochseeschiffe gleich welcher Flagge; die Bunkermengen können - wie in dieser Matrix - als

Ausfuhr betrachtet, aber auch einem Verbrauch gleichgestellt werden.

*Bunker für den Flugbetrieb* werden dem Energieendverbrauch "Verkehr" zugerechnet.

**Für den Bruttoinlandsverbrauch verfügbar** : Diese Gesamtgröße stellt den *Schlüsselposten* der Bilanz dar. Sie entspricht der Energiemenge, die im Bezugszeitraum zur Deckung des Inlandsverbrauchs einer bestimmten geographischen Einheit notwendig ist.

Die für den Inlandsverbrauch verfügbare Energiemenge wird aus der Bilanz von oben her berechnet (Primärenergieerzeugung + Einfuhr ±

Bestandsveränderungen - Ausfuhr - Bunker); sie ist gleich der Summe aus Verbrauch, Verteilungsverlusten, Umwandlungsverlusten und statistischer Differenz.

Die negativen Zahlen, die für einige Produkte und gewisse Länder bei dieser Gesamtgröße ausgewiesen werden, ergeben sich hauptsächlich aus einem Ausfuhrüberschuß bzw. einer Aufstockung der Bestände.

**Umwandlungseinsatz** : Die Umwandlungsmengen umfassen den gesamten Einsatz einer Umwandlungsanlage zu Erzeugung von abgeleiteten Produkten. Der Begriff Umwandlung findet nur dort Anwendung, wo eine physikalische oder chemische Veränderung energetischer Produkte stattfindet.

**Umwandlungsausstoß** : Der Ausstoß ist das Ergebnis des Umwandlungsprozesses. Er entspricht der *Erzeugung abgeleiteter Produkte* wie von Steinkohlenbriketts, Koks, Braunkohlen- und Torfbriketts, Steinkohlenpech, Teer, Benzol, raffinierten Mineralölprodukten, abgeleiteten Gasen, Elektrizität aus Wärme (klassischen und nuklearen Ursprungs) und abgeleiteter Wärme. Die abgeleitete Erzeugung versteht sich immer einschließlich des *Eigenverbrauchs* der Umwandlungsanlagen.

Die Differenz zwischen Umwandlungseinsatz und -ausstoß nennt man *Umwandlungsverluste*. Zur Ermittlung dieser Verluste müssen der Einsatz und der Ausstoß derjenigen Zeilen festgestellt werden, die sich auf einen bestimmten Umwandler beziehen.

Die Daten dieser Zeilen sowie die Daten der Zeilen "Umwandlungseinsatz" sind das Ergebnis der aus Kohärenzgründen für jeden Umwandlungsbetrieb erstellten Umwandlungsbilanzen.

Die Summe des "Umwandlungsausstoßes" enthält zwangsläufig Doppel- oder sogar Dreifachzählungen, wenn es um aufeinanderfolgende Umwandlungsstufen geht (z. B. Koks + Hochofengas + aus diesem Gas erzeugte Elektrizität). Das Gleichgewicht der zusammengefaßten Bilanz wird

dadurch jedoch nicht beeinträchtigt, da der entsprechende Umwandlungseinsatz ebenfalls verbucht wird.

**Verbrauch des Sektors Energie** : Der Verbrauch des Sektors Energie umfaßt die Verbrauchsmengen, die die Energieerzeuger und -umwandler zum Betrieb ihrer Anlagen beziehen oder selbst erzeugen. Um dem Begriff Umwandlung besser gerecht zu werden, wurde das Pumpen nicht als Umwandlungstätigkeit des Elektrizitätserzeugers gewertet (die Substanz dieses Produkts wird nicht verändert). Die *Pumpenverluste*, d. h. der Saldo aus Energieeinsatz und -ausstoß beim Pumpen, werden daher ebenso wie der Verbrauch der Kraftwerksnebenbetriebe als Eigenverbrauch des Herstellers betrachtet.

**Nichtenergetischer Endverbrauch** : Bedeutet Einsatzmengen bei der Chemosynthese (insbesondere in der Petrochemie) und die nicht-energetischen Verwendungen in den übrigen Verbrauchssektoren, hauptsächlich als Schmiermittel und für Straßenbeläge.

**Energetischer Endverbrauch** : Letzter in der Bilanz ausgewiesener Energiestrom, d. h. vom Verbraucher für sämtliche energetischen Nutzungen bezogene Energiemenge.

*Industrie* : Sämtliche Produktionsbereiche mit Ausnahme der Energiewirtschaft (vgl. IV).

Die in den Kraftwerken der industriellen Eigenerzeuger umgewandelten Mengen sowie die in Hochofengas umgewandelten Koksmengen sind nicht dem Gesamtverbrauch der Industrie, sondern den betreffenden Umwandlungspositionen zugerechnet worden. In dieser Rubrik erscheinen nur die Energiemengen, die zu energetischen Zwecken verbraucht wurden.

In bezug auf Erfassungsbereich und Vergleichbarkeit sind jedoch sowohl auf der Ebene der Energieträger als auch der Länder gewisse Mängel festzustellen. Die Erfassungsbereiche sind oft nicht deckungsgleich. Die Industrien werden zum einen aufgrund einer jährlich festgelegten Energieverbrauchsschwelle und zum anderen aufgrund einer bestimmten Beschäftigungszahl mit häufig sowohl zeitlich als auch räumlich variierenden Grenzen erfaßt. Bei einigen Energieträgern wie Elektrizität und Gas erfolgt die Abgrenzung des Wirtschaftszweigs häufig anhand der Zollstatistik.

*Verkehr* : Sämtliche Verkehrsarten, einschließlich dem Verkehr der privaten Haushalte, des Staats, usw., ohne Seeschifffahrt, die in der Rubrik "Bunker für die Seeschifffahrt" aufgeführt ist.

*Haushaltungen usw.* : Verbrauch der privaten Haushalte, des Kleingewerbes, des Handwerks, des Handels, der öffentlichen Hand und des Dienst-

leistungsgewerbes (ohne Verkehrswesen), der Landwirtschaft und Fischerei. In Ermangelung besseren statistischen Datenmaterials ist die Qualität dieser Position uneinheitlich.

Im allgemeinen sind die Daten dieser Zeile ein Saldo aus den auf den Markt gelieferten Mengen, von denen der Verbrauch der Industrie und des Verkehrswesens abgezogen wird.

### III. SPEZIALAUSDRÜCKE

#### KAPITEL I

*Energieintensität* : das Verhältnis des Bruttoinlandsverbrauchs zum Bruttosozialprodukt. Der Indikator erlaubt die Bewertung des Energieverbrauchs einer Volkswirtschaft und der Effizienz der Energienutzung insgesamt.

*Energieabhängigkeit* : der Anteil des Bruttoenergieverbrauchs (Produktion + Einfuhren - Ausfuhren  $\pm$  Bestandsveränderungen), der der Nettoenergieeinfuhr entspricht. Er zeigt die Abhängigkeit der Mitgliedstaaten oder der Europäischen Union von Energielieferungen aus dem Ausland auf.

#### KAPITEL III

##### Kohle

*Leistung für den Untertagebereich* : Dabei handelt es sich um die in Stunden ausgedrückte Arbeitszeit. Sie wird auf die Arbeitszeit, ausgedrückt in Stunden, bezogen. In den Angaben sind alle Untertage beschäftigten, einschließlich Aufsichtspersonals und im Auftrag Dritter Arbeitender erfaßt. Die Bestimmung der Leistung unter Tage umfaßt nur die Kohलगewinnung im eigentlichen Sinne.

##### Rohöl und Energierohstoffe

*Rohöl* : In der Rohölförderung sind die bei der Gewinnung, Reinigung und Stabilisierung von Naturgas "angefallenen" Mengen von Naturbenzin und Kondensaten nur dann enthalten, wenn diese Erzeugnisse in Raffinerien umgewandelt werden.

*Verfügbarkeit* : Sie wird nach folgender Formel berechnet : Erzeugung + Gesamteinfuhr - Gesamtausfuhr  $\pm$  Bestandsveränderungen.

*Durchsatz der Raffinerien* : Erfasst wird die Gesamtmenge von Rohöl und Zwischenprodukten, die den Raffinerien geliefert und in ihnen eingesetzt wird. Die Differenz zwischen der entsprechenden Angabe und der Bruttoerzeugung abgeleiteter Produkte bilden die Raffinerieverluste.

##### Mineralölprodukte

*Bruttoerzeugung von abgeleiteten Produkten* : entspricht der Erzeugung aller Mineralölerzeugnisse in Raffinerien, einschließlich der Produkte für nicht-energetische Verwendung und des Eigenverbrauchs der Raffinerien, mit Ausnahme der Raffinerieverluste.

*Nettoerzeugung von abgeleiteten Produkten* : Es handelt sich um die Bruttoproduktion abgeleiteter Produkte abzüglich des Eigenverbrauchs der Raffinerien.

*Verfügbarkeit* : Gemäß folgender Formel berechnete Mengen: Primärerzeugung + Nettoerzeugung + Gesamteinfuhr - Gesamtausfuhr - Bunker  $\pm$  Bestandsveränderung (bei den Raffinerien und den Importeuren).

*Verbrauch im inländischen Markt* : Entspricht den Inlandslieferungen, die gemäß folgender Formel berechnet werden: Eingänge für Umwandlung + energetischer Verbrauch + nichtenergetischer Verbrauch.

*Umwandlung in Kraftwerken* : In öffentlichen Kraftwerken und in Kraftwerken der Eigenerzeuger tatsächlich für die Erzeugung von Elektrizität verbrauchte Mengen sowie die an Dritte verkaufte Wärme.

##### Naturgas

*Erzeugung* : Es handelt sich um gereinigtes Naturgas, nach Ausscheidung der in ihm enthaltenen Ballaststoffe. Die angegebenen Mengen verstehen sich nach Abzug der durch Abblasen, Fackeln und Produktionsversuche eliminierten sowie der in die Lagerstätten eingepreßten Mengen. Dagegen ist der Eigenverbrauch beim Erzeuger eingeschlossen.

*Bestandsveränderungen* : Erfasst wird hier der Saldo der Zufuhren (-) und Entnahmen (+) von Gas in Speichern und in Transportleitungen.

*Verbrauch im inländischen Markt* : Enthält aufgrund von Erhebungswerten die Umwandlungen, den energetischen Endverbrauch und den nichtenergetischen Endverbrauch.

## Elektrische Energie

*Bruttoerzeugung* : Die Bruttoerzeugung ist die an den Abgangsklemmen der Maschinensätze des Kraftwerks gemessene Erzeugung und enthält den Verbrauch der Hilfsantriebe sowie die Verluste in gegebenenfalls vor-handenen kraftwerkstransformatoren (vgl. UNIPEDE 3.5.2).

*Nettoerzeugung* : Die Nettoerzeugung ist die gesamte Erzeugung abzüglich des Verbrauchs der Hilfsantriebe und der Verluste in den Kraftwerkstransformatoren (vgl. UNIPEDE 3.5.5).

*Für den inländischen Markt verfügbare Energie* : Hierunter fällt jeweils die gesamte außerhalb der Erzeugungsanlagen verbrauchte elektrische Energie. Die Übertragungs- und Verteilungsverluste sind daher mit eingeschlossen. Diese verfügbare Energie ist somit gleich dem Bruttogesamtverbrauch abzüglich des Energieverbrauchs der Hilfsbetriebe und der Pumpspeicherwerke.

*Brennstoffverbrauch* : Hierunter fällt der Verbrauch an Brennstoffen durch die klassischen Wärmekraftwerke

(einschließlich der in Strom umgewandelten geothermischen Wärme), die für die Erzeugung von Elektrizität und Wärme (ausschließlich die an Dritte verkauften Mengen) benötigt werden.

*Engpaßleistung* : Die Engpaßleistung ist die Summe der ohne Rücksicht auf den besten Wirkungsgrad ausfahrbaren Dauerleistungen aller Kraftwerke, unter der Voraussetzung, daß alle ihre Einrichtungen voll betriebsfähig sind. Die Engpaßleistung kann brutto oder netto angegeben werde, je nachdem, ob sie die von den Hilfs- und Nebenanlagen beanspruchte elektrische Leistung und die Verluste in den Transformatoren der Kraftwerke umfaßt oder nicht. Sie kennzeichnet den höchstmöglichen Wert für die Gesamtheit der Kraftwerksanlagen (vgl. UNIPEDE 2.1.3 und 2.2.5).

*Erzeugungsmöglichkeit* : Die Erzeugungsmöglichkeit einer Wasserkraftanlage in einem bestimmten Zeitabschnitt ist die größte Menge elektrischer Energie, die sie aus den korrekten Zuflüssen unter den günstigsten Bedingungen erzeugen kann (vgl. UNIPEDE 3.3.4).

## AUFSCHLÜSSELUNG DES ENERGETISCHEN ENDVERBRAUCHS DER INDUSTRIE (ohne "Energie")

davon :

1. **Eisenschaffende Industrie** (NACE<sup>1</sup> 27.1 + 27.2 + 27.3 + 27.51 + 27.52)
2. **NE-Metalle** (NACE 27.4 + 27.53 + 27.54)
3. **Chemie** (NACE 24)
4. **Glasgewerbe, Keramik, Verarbeitung von Steinen und Erden** (NACE 26)
5. **Bergbau (ohne Brennstoffgewinnung)** (NACE 13 + 14)
6. **Nahrungs- und Genußmittel** (NACE 15 + 16)
7. **Textil, Leder, Bekleidung** (NACE 17 + 18 + 19)
8. **Papier und Druckereigewerbe** (NACE 21 + 22)
9. **Eisen- und Metallverarbeitung** (NACE 28 + 29 + 30 + 31 + 32+ 34 + 35)
10. **Sonstige** (NACE 20 + 25 + 33 + 36 + 37 + 45 )

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<sup>1</sup> NACE Rev.1 Allgemeine Systematik der Wirtschaftszweige in der Europäischen Gemeinschaft

## Abkürzungen und Zeichen

|              |   |                 |  |
|--------------|---|-----------------|--|
| *            | vorläufige Angabe   | <b>kWh</b>      | Kilowattstunde   |
| :            | kein Nachweis vorhanden   | <b>MW</b>       | Megawatt = $10^3$ kW   |
| —            | nichts  | <b>GWh</b>      | Gigawattstunde = $10^6$ kWh  |
| <b>0</b>     | Angaben kleiner als die Hälfte der in der Tabelle verwendeten Einheit | <b>J</b>        | Joule  |
| <b>kgRÖE</b> | Kilogramm Rohöleinheit (41868 Kilojoule Hu/kg)                        | <b>kJ</b>       | Kilojoule  |
| <b>Mio</b>   | Million   | <b>TJ</b>       | Terajoule = $10^9$ kJ  |
| <b>Mrd</b>   | Milliarde   | <b>Hu</b>       | unterer Heizwert   |
| <b>t</b>     | metrische Tonne   | <b>Ho</b>       | oberer Heizwert  |
| <b>t = t</b> | Tonne = Tonne   | <b>EUR</b>      | Europäische Währungseinheit  |
| <b>RÖE</b>   | Rohöleinheit (41860 Kilojoule Hu/kg)                                  | <b>davon</b>    | das Wort "davon" bedeutet, daß sämtliche Unterteilungen angegeben sind |
|              |   | <b>darunter</b> | das Wort "darunter" bedeutet, daß einige Unterteilungen angegeben sind |





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# EXPLANATORY NOTES

The aim of the publication known as *Energy statistics yearbook* is to bring together a coherent body of harmonized statistical information on the energy economy in the European Union and the Member States, concerning mainly the last year for which data are available. The information is mostly structured around the energy balance-sheets, which are the basic tool for energy analysis. More short-term data have been published in the monthly bulletins *Energy*.

The *first part* of the yearbook covers characteristic data of the energy economy from an analytical viewpoint. Historical series of indicators show the development of the main energy aggregates for the European Union and for each Member State compared with some general economic indicators and the structural changes which have occurred during the last few years.

The *second part* gives an overall view of the principal aggregates for all energy and by-products in a common unit, the tonne of oil equivalent. These series are taken directly from the overall energy supplied balance-sheets for 1985-1993.

The *third part* gives historical series for each energy source for the principal aggregates.

The unit used is specific to each source ; e. g. coal in tonnes, gas in TJ.

Further information on the methodology of the energy supplied balance-sheets is given in the publication *Principles and methods of the energy balance-sheets*.

## I. ENERGY PRODUCTS

The energy products covered by this publication are as follows :

### Coal and derived products

*Hard coal* : Coal with a gross calorific value equal to or greater than 24 MJ/kg per wet sample, free of ash. This also includes middlings, slurries and combustible shale.

As of 1987 coal figures for Spain include black lignite (lignito negro).

*Patent fuel* : Normally produced by hot milling under pressure with the addition of binding material (pitch).

*Coke* : Hard coke, gas-works coke, coal semi-coke, milled coke and lignite coke, produced by distillation of coal or lignite.

*Lignite* : Coal with a gross calorific value not exceeding 24 MJ per wet sample, free of ash, such as black lignite.

*Peat* : Fuel of vegetable origin suitable for combustion after drying.

*Brown-coal briquettes* : Produced by briquetting under high pressure. This includes dried brown coal and brown-coal breeze.

*Peat briquettes* : Produced by milling under high pressure.

*Tar, pitch and benzol* : By-products obtained during the distillation of hard coal in coking plants.

### Oil and derived products

*Crude oil* : Mineral petroleum oils or crude oils from bituminous minerals (including semi-refined petroleum and natural gas liquids (condensates) when these are treated by distillation).

*Feedstocks* : Refinery feedstocks.

*Refinery gas* : Incondensable gas composed mainly of hydrogen, ethane, methane and olefine. Refined ethane obtained by separation during the production of natural gas is entered here as a production of primary sources.

*Liquefied petroleum gas* : Propane and butane or a mixture of the two.

*Motor spirit* : Regular and five-star motor spirit, lead-free motor spirit, aviation spirit and natural gasoline.

*Paraffin oil and jet fuel* : Paraffin oil (for heating and haulage), jet fuel in the form of spirits and oil.

*Naphtas* : Light, medium and heavy naphtas.

*Gas/diesel oil* : Gas oil and diesel oil for road transport and shipping, gas oil for heating, diesel oil with a viscosity of less than 10 cST at 80° C.

*Residual diesel oil* : Diesel oil with a viscosity greater than 10 cST at 80° C.

*White spirit and industrial spirit* : Light oil of narrow cut.

*Lubricants* : lubricating oil and greases (including spindle, white oils, insulating oil and cutting oils).

*Bitumen* : Petroleum bitumen (including bituminous mixtures and bitumen emulsions).

*Petroleum coke* : Solid petroleum residues.

*Other petroleum products* : Waxes, vaselines, paraffins, sulphur and other distillation residues.

## Gas

*Natural gas* : Essentially methane but contains small proportions of other gases. It covers both non-associated natural gas and associated natural gas and methane recovered in coalmines.

Ethane, propane and butane and the other condensates are excluded in so far as they have been purified and are included in primary production of petroleum products.

*Coke-oven gas* : Gas recovered as a by-product of coke ovens.

*Blast-furnace gas* : Gas recovered as a by-product of blast furnaces.

*Works gas* : All types of gas obtained by distillation, cracking, reforming and hydrogenation. This gas differs from coking and blast-furnace gas in that it is not a by-product but a product manufactured intentionally in specialized plants. Works gas is always a derived product, obtained from coal refinery gas, oil, LPG, naphthas, gas oils, residual fuel oils or natural gas. Thus the production of substitute, natural gas is included under this heading.

## Renewable energy

Renewable energy covers energy sources which are considered inexhaustible in the long term.

*Solar energy* : The conversion of solar radiation to thermal energy and photovoltaic electricity.

*Geothermal heat* : Natural underground heat. Geothermal heat includes the heat used for heating buildings as well as that used in electricity production. The electricity produced is included in the balances as derived electricity production in the same way as electrical energy of conventional origin.

*Biomass (and waste)* : Organic, non-fossil matter used to produce energy. This includes both wood and

vegetable wastes (wood-waste and agricultural waste) black liquor, municipal solid waste, biogas (produced by anaerobic fermentation) and biofuels (ethanol, diester, etc.).

*Wind energy* : Electrical energy produced by wind energy converters (wind generators). The primary production of energy is transferred in the electrical energy balance.

*Hydro energy* : The potential and kinetic energy of water. Hydro energy is accounted for as electricity produced by hydroelectric power stations. Primary energy production is transferred in the electrical energy balance. Hydro energy which is the result of pumping is excluded.

## Other fuels

Gas and heat recovered by industry, unclassified biomass waste used in conventional thermal power stations.

## Heat

The heat may be primary, in the case of geothermal sources or heat from nuclear power stations, or derived, in the case of hot water or steam produced in a co-generating power-station or in a heat plant.

*Nuclear energy* : Is included in the form of heat released during the fission of uranium in reactors. This heat is considered as primary and figures as such under primary production. The heat computed in this way corresponds to an availability of energy obtained via fission during the year under consideration.

## Electrical energy

Hydroelectric energy from natural sources, wind, geothermal, conventional thermal and nuclear electrical energy.

## II. AGGREGATES

**Primary production** : Extraction of energy from a natural source : coal, lignite, crude oil, natural gas, geothermics, hydro, wind, solar and biomass. Nuclear energy, in the form of heat produced during fission, is treated as primary production.

The *other fuels*, which are taken into account only when they correspond to a transformation input into conventional thermal power stations, are conventionally included in "recovered products", given that in most cases they correspond to real recoveries.

Primary production of *coal* is defined as net pithead production, i.e. after removal of the waste from the

gross output (coal brought to the surface) by means of screening and washing. As a general rule, it includes the production of low grade products (dust, middlings, slurries) but not recovered products. Production figures cover small and open-cast mines.

The production of *crude oil* includes the production of natural gasoline or other condensates obtained on production, purification and stabilization of natural gas only when these materials undergo transformation in the refineries.

The production of *petroleum products* refers to liquefied petroleum gas (LPG), naturally produced petrol or other products which after purification and the stabilising of the natural gas can be directly consumed.

The production of *natural gas* refers to purified natural gas, i.e; after removal of inert matter. The data always exclude blow-offs, flaring, production tests and amounts reinjected into the strata.

The producers' *own consumption* is included in the production data.

**Imports** : Imports represent all entries into the national territory excluding *transit* quantities (notably via gas and oil pipelines) ; electrical energy is an exception and its transit is always recorded under foreign trade.

Data on imports are generally taken from importers' declarations ; accordingly, they may differ from the data collected by the customs authorities and included in the foreign-trade statistics.

In the case of crude oil and petroleum products, imports represent the quantities delivered to the national territory and, in particular, those quantities : (i) destined for treatment on behalf of foreign countries ; (ii) only imported on a temporary basis ; (iii) imported and deposited in uncleared bonded warehouses ; (iv) imported and placed in special warehouses on behalf of foreign countries ; (v) imported from regions and/or territories overseas under national sovereignty.

Total *European Union* imports (EU-15 and EU-12) also include intra-EU trade.

**Stock changes** : This refers to the difference between the existing quantities of energy stocked by the producers, importers, distributors of natural gas, transformers and large industrial consumers at the beginning and the end of the period under consideration. The sign + indicates reductions in stock and thus an *increase* in availabilities, whereas the sign - indicates reductions in stock and thus a *decrease* in availabilities for consumption.

**Exports** : In general the same rules apply as in the case of imports.

In the case of crude oil and petroleum products exports also represent all the quantities : (i) re-exported after treatment or transformation ; (ii) supplied to national or foreign troops stationed abroad (in so far as secrecy permits this).

**Bunkers** : Supply of sea-going ships of all flags. Maritime bunkers can be considered either as exports, as is done in this matrix, or classified as consumption.

*Aviation bunkers* are included in the final energy consumption of 'transportation'.

**Gross inland consumption** : This is the *key* aggregate in the balance sheet. It represents for the reference period the quantity of energy necessary to satisfy inland consumption of the geographical entity under consideration.

The energy available for inland consumption is calculated from the top of the balance sheet down (primary production + imports ± stock changes - exports - bunkers) ; it corresponds to the addition of consumption, distribution losses, transformation losses and statistical differences.

The negative figure shown for the aggregate in the case of certain products and countries is basically the result of exporting or stock building.

**Transformation input** : The quantities in question represent all the inputs into a transformation plant destined to be converted into derived products. The concept of transformation applies only when the energy products are physically or chemically modified.

**Transformation output** : The outputs are the result of the transformation process. They correspond to the *production of derived products*, namely : patent fuel, coke, brown-coal and peat briquettes, pitch, tar, benzol, refined petroleum products, derived gases, thermal electrical energy (conventional and nuclear) and derived heat. Derived production always includes *own consumption* of transformation plants.

The difference between transformation input and transformation output constitutes *transformation losses*. To calculate these losses, inputs and outputs must be read from the lines which refer to a given transformer.

The data entered on these lines and on the line 'Transformation input' are taken from transformation balance-sheets which are drawn up for each transformer with a view to ensuring consistency.

The total of 'transformation output' inevitably contains double and even triple counts whenever there are successive transformations (e.g. coke plus blast-furnace gas plus electrical energy produced from this gas). However, this does not influence the equilibrium of the overall balance-sheet as the

corresponding transformation inputs are computed in the same way.

**Consumption of the energy sector** : The consumption of the energy sector covers the consumption of own-produced energy and of energy purchased by energy producers and transformers in operating their installations. In the interest of a strict definition of the concept of transformation, pumping is not considered as a transformation activity by the electricity producer (as the nature of the product is not modified). *Pumping losses*, the difference between the electrical energy absorbed in pumping and the electrical energy produced by pumping, are thus considered as own consumption by the producer, in the same way as the consumption of the auxiliary services of the power stations.

**Final non-energy consumption** : Consumption indicating : (i) inputs for chemical synthesis (in particular petrochemicals) ; and (ii) non-energy uses in the other consumption sectors, mainly lubrication and road surfacing.

**Final energy consumption** : The last energy flow computed in the balance-sheet, namely energy supplied to the consumer's door for all energy uses.

*Industry* : All industrial sectors with the exception of the energy sector (see IV).

It should be recalled that the quantities transformed in the electrical power stations of industrial own-producers and the quantities of coke transformed into blast-furnace gas are not entered under overall industrial consumption but under the appropriate transformation input items.

It should also be noted that this heading only includes quantities consumed for energy purposes. It should be pointed out that there are certain defects in coverage and comparability both at the level of resources and at national level. In many cases the area covered is not the same ; data on industries are gathered either on the basis of an annual energy consumption threshold or on the basis of a minimum number of employees which will frequently vary in time and space. Moreover, for certain sources - electrical energy and gas - the branches are often defined on the basis of tariff statistics.

*Transport* : All types of transport, including transportation by households, public administrations, etc., with the exception of maritime shipping which is included under the heading 'bunkers'.

*Services & households, etc.* : Consumption by private households, small scale industry, crafts, commerce, administrative bodies, services, with the exception of transport, agriculture and fishery. Due to the lack of adequate statistical data this item is of very mixed quality.

Generally, the data presented on this line constitute a *balance*, calculated on the basis of the quantities supplied to the market, from which consumption by industry and transport has been deducted.

### III. SPECIAL TERMS

#### Chapter I

*Energy intensity* : The ratio of gross internal consumption to gross domestic product. This indicator allows the evaluation of the energy evolution of an economy and its overall energy efficiency.

*Energy dependence* : The proportion of gross energy consumption (production + imported - exports  $\pm$  stock changes ) which is made up of net energy imports. This shows the Member State's or European Union's dependence on energy supplied from outside sources.

#### Chapter III

##### Coal

*Underground output per man-hour* : This is based on the total working time expressed in hours. The calculations take account of all underground personnel, including officials and persons employed by an outside contractor. Underground productivity is determined only for actual coal mines.

##### Crude oil and feedstocks

*Production* : Covers the 'associated' condensates in the petroleum deposits, natural gasolines and other condensates obtained from the production, purification and stabilization of natural gas only when these products undergo transformation in the refineries.

*Availabilities* : Calculated in accordance with the formula : production + total imports - total exports  $\pm$  stock changes in stocks.

*Refinery throughput* : These are the total quantities of crude oil and intermediate products received for treatment in the refineries. The difference between this figure and the gross production of derived products represents refinery losses.

##### Petroleum products

*Gross production of derived products represents* : Production in refineries of all petroleum products, including, products for non-energy use and for refineries own consumption, but excluding refining losses.

*Net production of derived products* : This is the gross production of derived products less refineries' own consumption.

*Availability* : The data are calculated according to the following formula : primary production + net production + total imports - total exports - bunkers ± stock changes (refiners and importers).

*Inland market consumption* : Inland deliveries calculated according to the following formula : entries to transformation sector + energy consumption + non-energy consumption.

*Transformation in electric power stations* : Quantities actually consumed in public power stations and stations operated by self-producers to produce electrical energy or heat sold to a third party.

## **Natural gas**

*Production* : Covers purified natural gas after removal of the inert matter contained in the gas. The amounts shown exclude the quantities used for blow-offs, flaring, production tests and quantities reinjected into the deposits. Producers' own consumption is included.

*Stock changes* : This represents the balance of the amounts of gas fed into (-) and removed from (+) the storage reservoirs and the transport systems.

*Inland market consumption* : Observed data which cover transformation, final consumption for energy

purposes and final consumption for non-energy purposes.

## **Electrical energy**

*Generation* is taken to mean the energy measured at the output terminals of power-station sets and thus includes the amount taken by station auxiliaries and losses in station transformers if these exist (see UNIPEDE 3.5.2).

*Net production* : The 'net production' is total generation less the amount taken by station auxiliaries and losses in station transformers (see UNIPEDE 3.5.2).

*Available for inland market* : This covers all the electricity consumed in the country concerned except by generating installations. Transportation and distribution losses are therefore included. This amount is thus equal to the gross total consumption less the energy absorbed by station auxiliaries and pumping stations.

*Fuel consumption* : Represents fuel consumed in conventional thermal power stations (including geothermal heat converted to electricity) in order to produce heat and electricity (limited to quantities sold to third parties).

*Maximum capacity* : 'Maximum capacity' is the sum of the maximum capacities attainable by each power station in continuous operation, without regard to optimum efficiency, the whole of its installations being assumed to be in full running order. This capacity may be gross or net ('output') according to whether or not it comprises the electrical capacity taken by the station auxiliaries and the losses in power-station transformers. It therefore represents the maximum potential of all the power plants installations (see UNIPEDE 2.1.3 and 2.2.5).

*Energy capability* : The energy capability of a hydroelectric installation at a given period is the maximum amount of electrical energy which the corrected flow can produce in the most favourable conditions (see UNIPEDE 3.3.4).

## **BREAKDOWN OF ENERGY CONSUMPTION BY INDUSTRY** (except the 'Energy' branch)

of which :

1. **Iron and steel** (NACE<sup>1</sup> 27.1 + 27.2 + 27.3 + 27.51 + 27.52)
2. **Non-ferrous metals** (NACE 27.4 + 27.53 + 27.54)
3. **Chemical industry** (NACE 24)
4. **Non-metallic mineral products** (NACE 26)
5. **Ore-extraction (except fuels)** (NACE 13 + 14)
6. **Food, drink and tobacco** (NACE 15 + 16)
7. **Textile, leather and clothing** (NACE 17 + 18 + 19)
8. **Paper and printing** (NACE 21 + 22)
9. **Engineering and other metal** (NACE 28 + 29 + 30 + 31 + 32+ 34 + 35)
10. **Other non-classified** (NACE 20 + 25 + 33 + 36 + 37 + 45 )

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<sup>1</sup> NACE Rev.1 General Classification of Industrial Activities in the European Community

## Abbreviations and symbols

|  |   |
|--|---|
| <p><b>*</b> provisional data</p> <p><b>:</b> no data available</p> <p><b>—</b> nil</p> <p><b>0</b> figure less than half the unit used</p> <p><b>kg oe</b> kilogram of oil equivalent (41868 kjoules NCV/kg)</p> <p><b>Mio</b> million</p> <p><b>Mrd</b> 1 000 million</p> <p><b>t</b> tonne (metric ton)</p> <p><b>t = t</b> tonne for tonne</p> <p><b>toe</b> tonne of oil equivalent (41868 kjoules NCV/kg)</p> | <p><b>kWh</b> kilowatt hour</p> <p><b>MW</b> megawatt = 10<sup>3</sup> kW</p> <p><b>GWh</b> gigawatt hour = 10<sup>6</sup> kWh</p> <p><b>J</b> joule</p> <p><b>kJ</b> kilojoule</p> <p><b>TJ</b> terajoule = 10<sup>9</sup> kJ</p> <p><b>NCV</b> net calorific value</p> <p><b>GCV</b> gross calorific value</p> <p><b>EUR</b> European currency unit</p> <p><b>of which</b> the words 'of which' indicate the presence of all the subdivisions of the total</p> <p><b>among which</b> the words 'among which' indicate the presence of certain subdivisions only</p> |
|--|---|



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# OBSERVATIONS

La publication *Statistiques annuelles de l'énergie* a pour but de rassembler un ensemble cohérent d'informations statistiques harmonisées sur l'économie de l'énergie de l'Union européenne et des États membres, principalement pour la dernière année disponible. L'information est donc particulièrement axée sur l'approche globale et structurelle, c'est-à-dire sur les bilans de l'énergie, qui constituent l'instrument essentiel de l'analyse énergétique. Quant aux données de caractère plus conjoncturel, elles ont trouvé leur place dans le bulletin mensuel *Energie*.

La *première partie* de l'annuaire donne un aperçu des données caractéristiques de l'économie énergétique, en particulier sous un aspect analytique. Des séries historiques d'indicateurs soulignent pour l'Union européenne et pour chaque Etat membre l'évolution des principaux agrégats de l'énergie comparativement à ceux de l'économie générale et montrent les modifications structurelles intervenues au cours des dernières années.

La *deuxième partie* donne un aperçu général des principaux agrégats relatifs à l'ensemble de l'énergie et à chaque produit dans une unité commune, la tonne-équivalent pétrole. Ces séries sont reprises des bilans énergétiques globaux pour la période 1985-1993.

La *troisième partie* fournit des séries historiques propres à chaque source d'énergie pour les principaux agrégats.

L'unité utilisée est spécifique à chaque source : la tonne dans le cas du charbon ou le Térajoule dans le cas du gaz.

Une information exhaustive sur la méthodologie des bilans de l'énergie finale est fournie par la publication *Principes et méthodes des bilans d'énergie*.

## I. SOURCES D'ENERGIES

Les produits pris en compte dans cette publication sont les suivants :

### Charbon et dérivés

*Houille* : charbon d'un pouvoir calorifique supérieur, égal ou dépassant 24 MJ/kg sur échantillon humide, exempt de cendres. Sont également compris les mixtes, les schlamms et les schistes combustibles.

Pour l'Espagne, les données concernant la houille comprennent le lignite ancien (lignito negro) à partir de 1987.

*Agglomérés de houille* : formés normalement par moulage à chaud et sous pression, avec adjonction de liant (brai).

*Coke* : coke de four, coke de gaz, semi-coke de houille, coke moulé et coke de lignite, produits par distillation de la houille ou du lignite.

*Lignite* : charbon d'un pouvoir calorifique supérieur, ne dépassant pas 24 MJ/kg sur échantillon humide, exempt de cendres, tel que lignite récent, lignite ancien et Hartbraunkohle.

*Tourbe* : combustible d'origine végétale, apte à la combustion après séchage.

*Briquettes de lignite* : obtenues par agglomération sous haute pression. Dans les quantités de briquettes sont compris le lignite séché et le poussier de lignite.

*Briquettes de tourbe* : éléments formés par moulage sous forte pression.

*Goudron, benzol* : sous-produits obtenus lors de la distillation de la houille dans les cokeries.

### Pétrole et dérivés

*Pétrole brut* : huiles minérales brutes de pétrole ou de minéraux bitumeux (y compris le pétrole semi-raffiné et liquides de gaz naturel (condensats) lorsque ceux-ci sont traités en distillation).

*Feedstocks* : produits d'alimentation des raffineries.

*Gaz de raffineries* : gaz incondensables composés principalement d'hydrogène, d'éthane, de méthane et d'oléfines. L'éthane épuré obtenu par séparation lors de la production du gaz naturel figure ici comme une production primaire.

*Gaz de pétrole liquéfiés* : propane et butane ou le mélange des deux.

*Essences moteur* : essence moteur normale, essence moteur super, essences sans plomb, essence aviation ainsi que gazoline naturelle.

*Pétrole lampant et carburéacteur* : pétrole lampant (chauffage et tracteur), carburéacteur type essence et carburéacteur type pétrole.

*Naphtas* : naphtas légers, moyens et lourds.

*Gas-oil et fuel-oil fluide* : gas-oil, diesel-oil routiers et marins, gas-oil de chauffage, fuel-oils d'une viscosité inférieure à 10 cST à 80°C.

*Fuel-oil résiduel* : fuel-oils d'une viscosité supérieure à 10 cST à 80° C.

*White spirit et essences spéciales* : huiles légères de coupe étroite.

*Lubrifiants* : huiles et graisses lubrifiantes (y compris spindle, huiles blanches, huiles isolantes et huiles de coupe).

*Bitumes* : bitumes de pétrole (y compris mélanges bitumeux et émulsions bitumeuses).

*Coke de pétrole* : résidu pétrolier solide.

*Autres produits pétroliers* : cires, vaselines, paraffines, soufre et autres résidus de distillation.

## **Gaz**

*Gaz naturel* : essentiellement méthane, mais il contient également une faible proportion d'autres gaz. Il couvre à la fois le gaz naturel non associé et le gaz naturel associé, le méthane récupéré dans les mines de charbon.

L'éthane, le propane et le butane et les autres condensats, dans la mesure où ils sont épurés, sont exclus et sont comptabilisés comme production primaire dans les produits pétroliers.

*Gaz de cokeries* : gaz récupéré comme produit fatal à la sortie des fours à coke.

*Gaz de hauts fourneaux* : gaz récupéré comme produit fatal à la sortie du haut fourneau.

*Gaz d'usines* : tous types de gaz obtenus par des opérations de distillation, de craquage, de reformage ou d'hydrogénation. Ils se distinguent des gaz de

cokeries et de hauts fourneaux par le fait qu'il ne s'agit pas de produits fatals, mais au contraire de produits manufacturés expressément dans des installations spécialisées.

Les gaz d'usines sont toujours des produits dérivés obtenus à partir de houille de gaz de raffineries, de GPL, de naphtas, de gas-oils, de fuel-oils résiduels ou de gaz naturel. Ils comprennent donc, au niveau de la production, le gaz de synthèse.

## **Energies renouvelables**

Les énergies renouvelables sont les sources d'énergie considérées comme inépuisables à long terme.

*Energie solaire* : chaleur solaire produite par la conversion du rayonnement en énergie thermique et l'électricité photovoltaïque produite par la conversion directe du rayonnement solaire.

*Chaleur géothermique* : chaleur naturelle en provenance du sous-sol. La chaleur géothermique comprend les quantités destinées au chauffage des immeubles et autres ainsi que la chaleur utilisée pour la production d'énergie électrique. Cette dernière production est reprise dans les bilans en tant que production dérivée d'énergie électrique au même titre que l'énergie électrique d'origine thermique classique.

*Biomasse (et déchets)* : matières organiques, non fossiles, d'origine biologique utilisées pour produire de l'énergie. Cela comprend à la fois les végétaux et les déchets. Elle comprend les bois et les déchets végétaux (déchets de bois et culture), les liqueurs noires, les déchets municipaux solides, le biogaz (produits par la fermentation anaérobie de biomasse), les biocarburants (éthanol, diesters, etc...).

*Energie éolienne* : forme d'énergie électrique produite par les convertisseurs d'énergie éolienne (aéro-générateur). La production primaire d'énergie est transférée dans le bilan de l'énergie électrique.

*Energie hydraulique* : énergie potentielle et cinétique des eaux. L'énergie hydraulique est prise en compte sous la forme d'énergie électrique produite par les centrales hydroélectriques. La production primaire d'énergie est transférée dans le bilan de l'énergie électrique. La production hydraulique résultant du pompage est exclue.

## **Autres combustibles**

Gaz et chaleur récupérés dans l'industrie, déchets non classés en biomasse, utilisés dans les centrales thermiques classiques.

## Chaleur

La chaleur peut être primaire, s'il s'agit d'une source géothermique, solaire, ou de la production thermique des centrales nucléaires, ou dérivée, s'il s'agit de l'eau chaude ou de la vapeur produite dans une centrale thermique de cogénération ou dans une centrale de chauffage.

*La chaleur nucléaire* est prise en compte sous la forme de la chaleur dégagée par la fission de l'uranium dans les réacteurs. Cette chaleur est considérée comme primaire et reprise en tant que telle dans la production primaire. La chaleur ainsi comptabilisée correspond à une disponibilité d'énergie obtenue à partir de la fission au cours de l'année considérée.

## Energie électrique

Energie électrique d'origine hydraulique issue d'apports naturels, éolienne, géothermique, thermique classique et nucléaire.

## II. AGREGATS

**Production primaire** : extraction d'énergie puisée dans la nature : houille, lignite, pétrole brut, gaz naturel, géothermie, énergie hydraulique, énergie éolienne, chaleur solaire, biomasse. *L'énergie nucléaire*, sous forme de chaleur produite par la fission, est traitée comme production primaire.

Les *autres combustibles*, pris en compte seulement quand ils représentent une entrée en transformation dans les centrales thermiques classiques, sont comptabilisés par convention à la ligne "récupération", s'agissant dans la plupart des cas de véritables récupérations.

La production primaire de *houille* est définie comme étant la production nette à la mine, c'est-à-dire après élimination des déchets de la production brute (charbon remonté à la surface) au moyen des opérations de criblage et de lavage. En règle générale, elle comprend la production des bas produits (poussiers, mixtes, schlamms), mais n'inclut pas les produits de récupération. La production comprend celles des petites mines et des mines à ciel ouvert.

La production de *pétrole brut* ne comprend la production d'essences naturelles ou d'autres condensats obtenus lors de la production, de l'épuration et de la stabilisation du gaz naturel que dans les cas où ces produits subissent une transformation dans les raffineries.

La production de *produits pétroliers* concerne les gaz

de pétrole liquéfiés (GPL), les essences naturelles ou autres produits obtenus à la production, à l'épuration et à la stabilisation du gaz naturel pouvant être consommés tels quels.

La production de *gaz naturel* se réfère aux quantités de gaz naturel épurées après élimination des matières inertes. Les données excluent toujours les lâchers, les brûlés à la torche, les essais de production et les réinjections dans le gisement.

Les données de production comprennent la *consommation propre* des producteurs.

**Importations** : les importations représentent toutes les entrées sur le territoire national à l'exclusion du *transit*, notamment par gazoducs et oléoducs; exception faite, l'énergie électrique, dont le transit est toujours comptabilisé dans le commerce extérieur.

Les données relatives aux importations proviennent, en général, des déclarations des importateurs ; elles peuvent donc différer des données établies par les services des douanes et reprises dans les statistiques du commerce extérieur.

En ce qui concerne le pétrole brut et les produits pétroliers, les importations comprennent, en particulier, les quantités : a) destinées au traitement à façon pour compte étranger ; b) importées à titre temporaire seulement ; c) importées et mises en entrepôts hors douane ; d) importées et mises en entrepôts spéciaux pour compte étranger ; e) importées de régions et/ou de territoires d'outre-mer placés sous la souveraineté nationale. Les importations totales de l'Union européenne (EU-15 et EU-12) comprennent également les *échanges intra-Union européenne*.

**Variations des stocks** : par variation des stocks, on entend la différence entre les quantités d'énergie existant en stock chez les producteurs, les importateurs, les distributeurs de gaz naturel, les transformateurs et les gros consommateurs industriels au début et à la fin de la période considérée. Le signe + indique un *déstockage*, et donc une augmentation des disponibilités, le signe - un *stockage*, et donc une diminution des disponibilités pour la consommation.

**Exportations** : en général, les mêmes règles que pour les importations sont appliquées.

En ce qui concerne le pétrole brut et les produits pétroliers, les exportations représentent, en outre, toutes les quantités : a) réexportées après traitement ou transformation ; b) fournies aux troupes nationales ou étrangères stationnées à l'étranger (dans la mesure où des dispositions concernant le secret ne s'y opposent pas).

**Soutes** : ravitaillement des navires de haute mer, quel que soit leur pavillon. Les soutes maritimes peuvent être soit considérées comme des exportations, comme c'est le cas dans la matrice des

bilans d'Eurostat, soit assimilées à une consommation.

Les *soutes aériennes* sont comprises dans la consommation finale énergétique des "transports".

**Consommation intérieure brute** : cet agrégat est le *pivot* du bilan. Il représente pour la période de référence la quantité d'énergie nécessaire pour satisfaire la consommation intérieure de l'entité géographique considérée.

L'énergie disponible pour la consommation intérieure est calculée en partant du haut du bilan (production primaire + récupération + importations ± variations des stocks - exportations - soutes) ; elle correspond à l'addition des consommations, des pertes de distribution, des pertes de transformation et des écarts statistiques.

Le chiffre négatif, paraissant au niveau de cet agrégat, pour certains produits et pour certains pays, résulte essentiellement d'un solde de commerce extérieur ou d'une mise aux stocks.

**Entrées en transformation** : les quantités en question représentent toutes les entrées dans une installation de transformation, destinées à obtenir des produits dérivés. La notion de transformation s'applique seulement lorsqu'il y a modification physique ou chimique des produits énergétiques.

**Sorties de transformation** : les sorties sont le résultat du processus de transformation. Elles correspondent à la *production de produits dérivés*, à savoir : agglomérés de houille, briquettes de lignite et de tourbe, goudron, benzol, produits pétroliers raffinés, gaz dérivés, énergie électrique thermique (classique et nucléaire) et chaleur dérivée. La production dérivée comprend toujours la *consommation propre* des installations de transformation.

La différence entre les entrées en transformation et les sorties de transformation constitue les *pertes de transformation*. Pour le calcul de ces pertes, les entrées et les sorties doivent être repérées aux lignes qui se réfèrent à un transformateur donné.

Les données reprises sur ces lignes ainsi que celles figurant à la ligne "entrées en transformation" sont extraites des bilans de transformation établis pour chaque transformateur afin d'en assurer la cohérence.

Le total des "sorties de transformation" contient, obligatoirement, des doubles et même des triples emplois lorsqu'il y a transformations successives (par exemple, coke + gaz de hauts fourneaux + énergie électrique produite à partir de ce gaz). Toutefois, cela n'influe pas sur l'équilibre du bilan global, puisque les entrées en transformation correspondantes sont également comptabilisées.

**Consommation de la branche "énergie"** : la consommation de la branche "énergie" couvre la consommation d'énergie achetée et autoproduite des producteurs et transformateurs d'énergie pour le fonctionnement de leurs installations. Pour mieux respecter la notion de transformation, le pompage n'est pas considéré comme une activité de transformation du producteur d'électricité (la nature du produit n'étant pas modifiée). Les *pertes de pompage*, solde entre l'énergie électrique absorbée pour le pompage et l'énergie électrique produite à partir du pompage, sont donc considérées comme une consommation propre du producteur, au même titre que la consommation des services auxiliaires des centrales.

**Consommation finale non énergétique** : consommation indiquant : les charges pour la synthèse chimique (notamment pétrolo-chimique) et les emplois à caractère non énergétique dans les autres secteurs de consommation, principalement lubrification, revêtements routiers.

**Consommation finale énergétique** : dernier flux énergétique que le bilan comptabilise, à savoir l'énergie livrée à la porte du consommateur pour toutes les utilisations énergétiques.

*Industrie* : toutes les branches industrielles à l'exception de l'industrie de l'énergie. (voir IV)

Il est rappelé que les quantités transformées dans les centrales électriques des autoproducteurs industriels ainsi que les quantités de coke transformées en gaz de hauts fourneaux ne sont pas comprises dans la consommation totale de l'industrie, mais dans les différents postes d'entrée en transformation concernés. Il est entendu, également, que dans cette rubrique ne figurent que les quantités consommées à des fins énergétiques.

Il faut signaler certains défauts de couverture et de comparabilité soit au niveau des sources, soit au niveau des pays. Le champ couvert n'est pas souvent le même : les industries sont recensées à partir d'un seuil de consommation énergétique annuelle, soit d'un certain nombre de personnes occupées dont la limite varie souvent dans le temps et dans l'espace. En outre, pour certaines sources, énergie électrique et gaz, souvent, la délimitation de la branche est déterminée sur la base de statistiques tarifaires.

*Transports* : tous types de transport, y inclus ceux des ménages, des administrations publiques, etc., à l'exception de la navigation maritime, qui est reprise sous la rubrique "soutes".

*Services, ménages, etc...* : consommation des ménages, de la petite industrie, de l'artisanat, du commerce, des administrations, des services (à l'exception de l'activité de transport), de l'agriculture et de la pêche. Faute de disposer de meilleurs relevés statistiques, il s'agit d'un poste très hétérogène.

En général, les données représentées à cette ligne sont un solde, calculé à partir des quantités livrées sur le marché, dont ont été déduites les consommations de l'ensemble de l'industrie et des transports.

### III. TERMES PARTICULIERS

#### Chapitre I

*Intensité énergétique* : rapport entre la consommation intérieure brute et le produit intérieur brut. Cet indicateur permet d'apprécier l'évolution énergétique d'un système économique et l'efficacité globale de l'utilisation de l'énergie.

*Dépendance énergétique* : quotient des importations nettes d'énergie et de la consommation brute d'énergie (production + importations - exportations + variations des stocks), qui exprime le degré de dépendance d'un Etat membre ou de l'Union européenne vis-à-vis des fournitures d'énergie d'origine extérieure.

#### Chapitre III

##### Houille

*Rendement au fond par homme/heure* : il s'agit de la durée du temps de travail exprimée en heures. Dans les calculs, tout le personnel au fond, y compris le personnel de surveillance et celui travaillant sous contrat, est retenu. La détermination du rendement au fond ne porte que sur les exploitations minières proprement dites.

##### Pétrole brut et feedstocks

*Production* : la production de pétrole brut comprend les condensats "associés" dans les gisements de pétrole brut, les essences naturelles et d'autres condensats obtenus lors de la production, de l'épuration et de la stabilisation du gaz naturel, seulement dans le cas où ces produits subissent une transformation dans les raffineries.

*Disponibilités* : elles sont calculées selon la formule suivante : production + importations totales - exportations totales ± variations de stocks.

*Pétrole traité* : il s'agit des quantités totales de pétrole brut et de produits intermédiaires entrées en traitement dans les raffineries. La différence entre ce chiffre et la production brute de produits dérivés représente les pertes en raffineries.

##### Produits pétroliers

*Production brute de produits dérivés* : production en raffineries de tous les produits pétroliers, y compris les produits à usage non énergétique et la consommation propre des raffineries, à l'exclusion des pertes de raffinage.

*Production nette de produits dérivés* : production brute de produits dérivés diminuée de la consommation propre des raffineries.

*Disponibilités* : données calculées selon la formule suivante : production primaire + production nette + importations totales - exportations totales - soutes ± variations de stocks (raffineurs et importateurs).

*Consommation du marché intérieur* : livraisons intérieures calculées selon la formule suivante : entrées en transformation + consommation non énergétique + consommation énergétique.

*Transformations dans les centrales électriques* : quantités réellement consommées dans les centrales des services publics et dans celles des autoproducteurs pour la production d'énergie électrique et de chaleur (vendue aux tiers).

##### Gaz naturel

*Production* : gaz naturels épurés après les opérations d'élimination des matières inertes contenues dans le gaz. Les chiffres indiqués sont ceux relevés après déduction des quantités utilisées pour les lâchers, les brûlés à la torche, les essais de production et les quantités réinjectées dans le gisement. La consommation propre des producteurs est incluse.

*Variations des stocks* : solde des mises (-) et des reprises (+) de quantités de gaz dans les réservoirs de stockage ainsi que dans les conduites de transport.

*Consommation du marché intérieur* : donnée observée qui comprend les transformations, la consommation finale énergétique, la consommation finale non énergétique.

##### Energie électrique

*Production brute* : mesurée aux bornes des groupes des centrales et comprend par conséquent la consommation des services auxiliaires et les pertes dans les transformateurs des centrales, s'il en existe (voir UNIPEDE 3.5.2.).

*Production nette* : égale à la production brute diminuée des énergies électriques absorbée par les auxiliaires et des pertes dans les transformateurs principaux (voir UNIPEDE 3.5.5.).

*Disponible pour le marché intérieur* : groupe toute l'énergie électrique consommée dans les pays en

dehors des installations de production. Les pertes de transport et de distribution sont donc incluses. Ce disponible est ainsi égal à la consommation totale brute diminuée de l'énergie absorbée par les services auxiliaires et par les centrales de pompage.

*Consommation de combustibles* : représente la consommation des combustibles des centrales thermiques classiques (y compris la chaleur géothermique transformée en électricité) en vue de produire de l'électricité et de la chaleur (consommation limitée aux seules quantités vendues aux tiers).

*Puissance électrique maximale* : somme des puissances maximales réalisables par chaque

centrale en marche continue, et sans sujétion de rendement optimal, la totalité de ses installations étant supposée entièrement en état de marche. Cette puissance peut être brute ou nette suivant qu'elle englobe ou non la puissance électrique absorbée par les services auxiliaires et par les pertes dans les transformateurs des centrales. Elle caractérise donc les possibilités maximales de l'ensemble des installations des centrales (voir UNIPEDE 2.1.3 et 2.2.5).

*Productibilité* : la "productibilité" d'un équipement pour une période déterminée est la quantité maximale d'énergie que les apports corrigés lui permettraient de produire dans les conditions les plus favorables. (voir UNIPEDE 3.3.4)

## **VENTILATION DE LA CONSOMMATION ENERGETIQUE DE L'INDUSTRIE** (Branche "énergie"exclue)

soit :

1. **Sidérurgie** (NACE<sup>1</sup> 27.1 + 27.2 + 27.3 + 27.51 + 27.52)
2. **Métaux non ferreux** (NACE 27.4 + 27.53 + 27.54)
3. **Chimie** (NACE 24)
4. **Produits minéraux non métalliques** (NACE 26)
5. **Extraction (combustibles exclus)** (NACE 13 + 14)
6. **Alimentation, boissons, tabac** (NACE 15 + 16)
7. **Textiles, cuir, habillement** (NACE 17 + 18 + 19)
8. **Papier et imprimerie** (NACE 21 + 22)
9. **Fabrications métalliques** (NACE 28 + 29 + 30 + 31 + 32+ 34 + 35)
10. **Autres branches** (NACE 20 + 25 + 33 + 36 + 37 + 45 )

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<sup>1</sup> NACE Rev.1 Nomenclature générale des activités économiques dans l'Union européenne



## Abréviations et signes employés

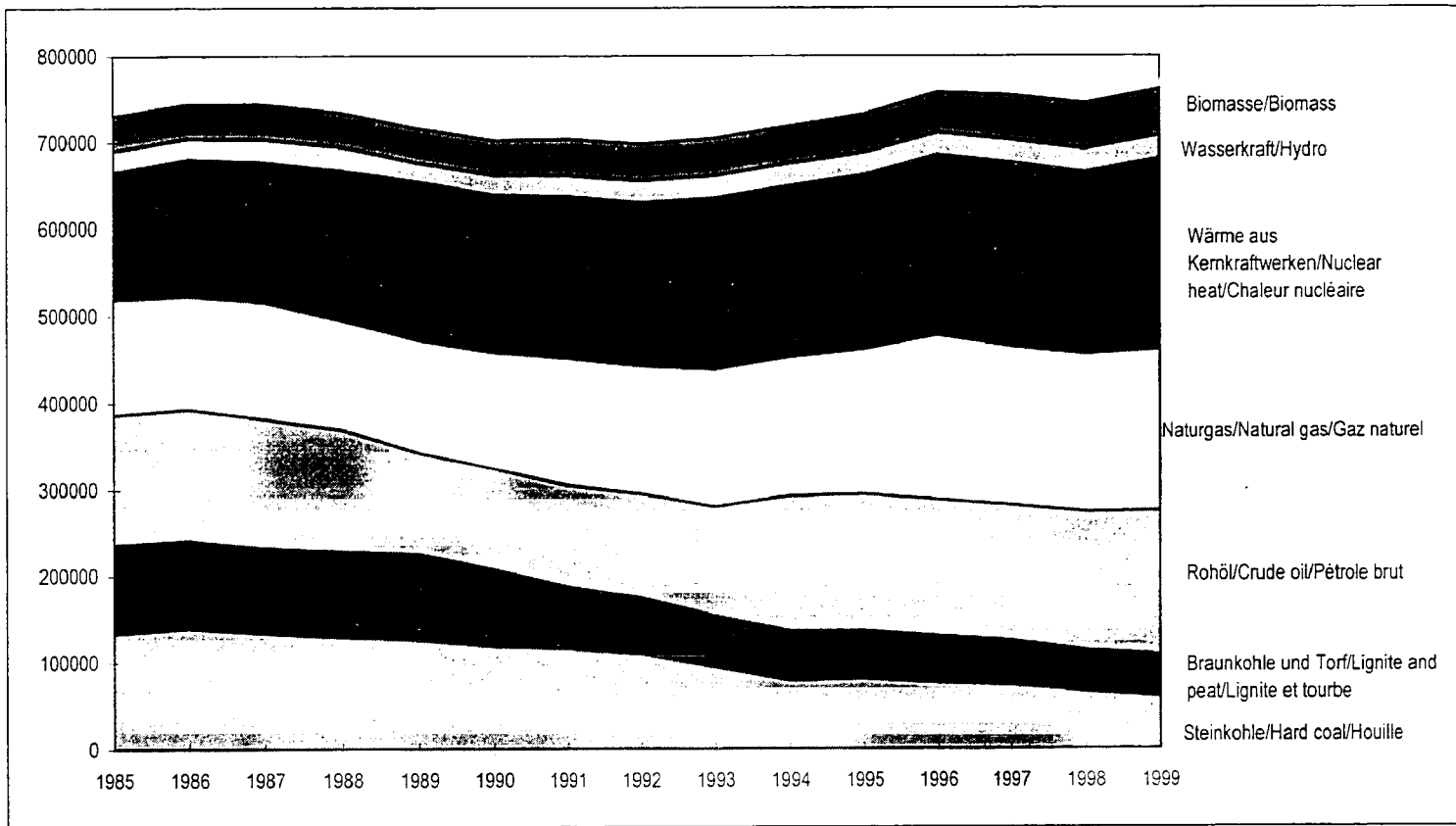
|              |   |             |   |
|--------------|---|-------------|---|
| <b>*</b>     | chiffre provisoire                                      | <b>kWh</b>  | kilowattheure   |
| <b>:</b>     | donnée non disponible                                   | <b>MW</b>   | megawatt = $10^3$ kW  |
| <b>—</b>     | néant   | <b>GWh</b>  | gigawattheure = $10^6$ kWh  |
| <b>0</b>     | chiffre inférieur à la moitié de l'unité employée       | <b>J</b>    | joule   |
| <b>kg ep</b> | kilogramme-équivalent pétrole (41868 kilojoules PCI/kg) | <b>kJ</b>   | kilojoule   |
| <b>Mio</b>   | million   | <b>TJ</b>   | térajoule = $10^9$ kJ   |
| <b>Mrd</b>   | milliard  | <b>PCI</b>  | pouvoir calorifique inférieur   |
| <b>t</b>     | tonne métrique  | <b>PCS</b>  | pouvoir calorifique supérieur   |
| <b>t = t</b> | tonne pour tonne  | <b>EUR</b>  | unité monétaire européenne  |
| <b>tep</b>   | tonne-equivalent pétrole (41868 kilojoules PCI/kg)      | <b>soit</b> | le mot "soit" signale la présence de toutes les subdivisions du total |
|              |   | <b>dont</b> | le mot "dont" indique la présence de certaines subdivisions           |



# 1

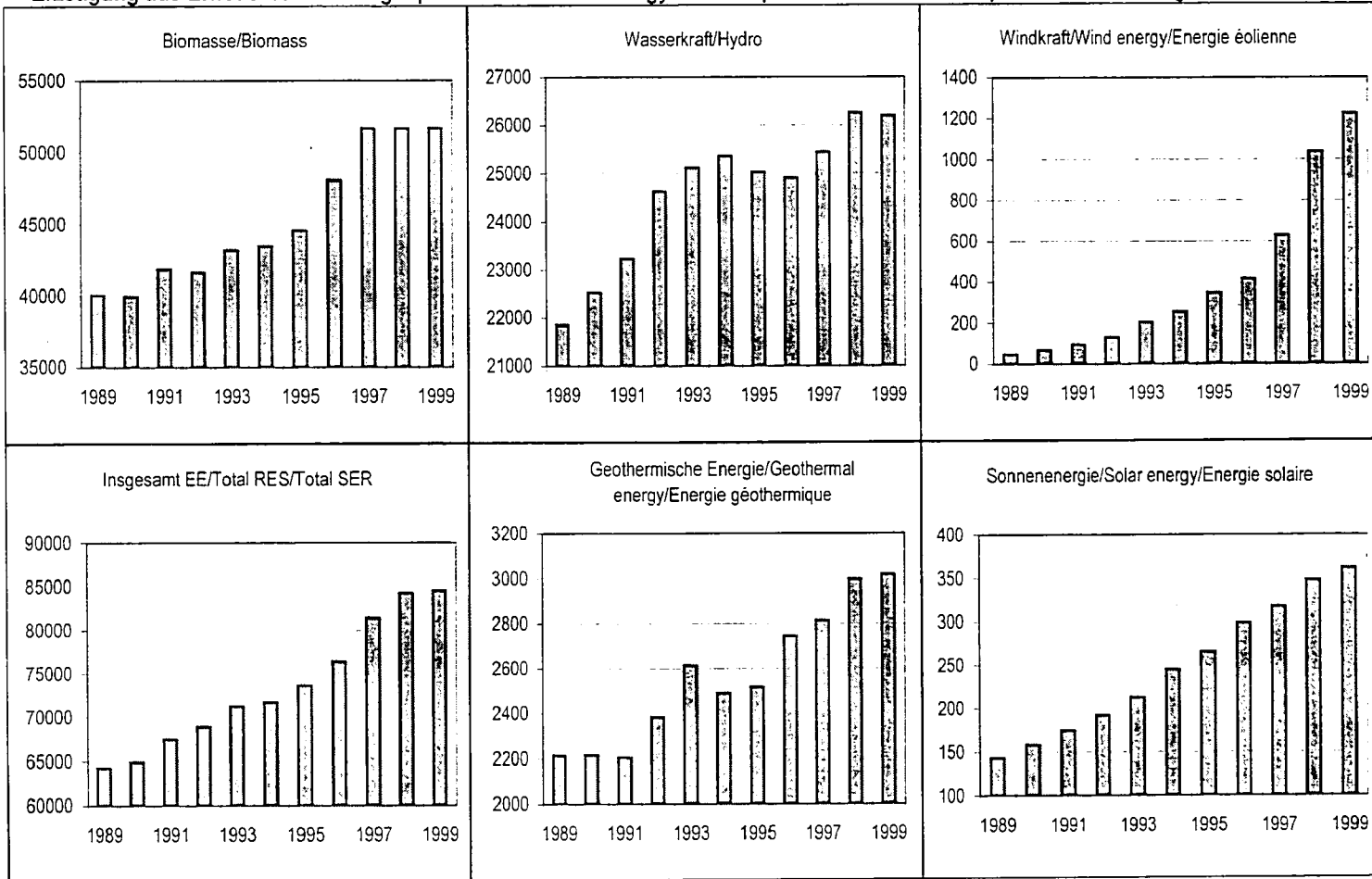
GRUNDZAHLEN  
BASIC DATA  
DONNEES DE BASE

Erzeugung von Primärenergieträgern in der EU/Primary energy production in the EU/Production d'énergie primaire dans l'UE



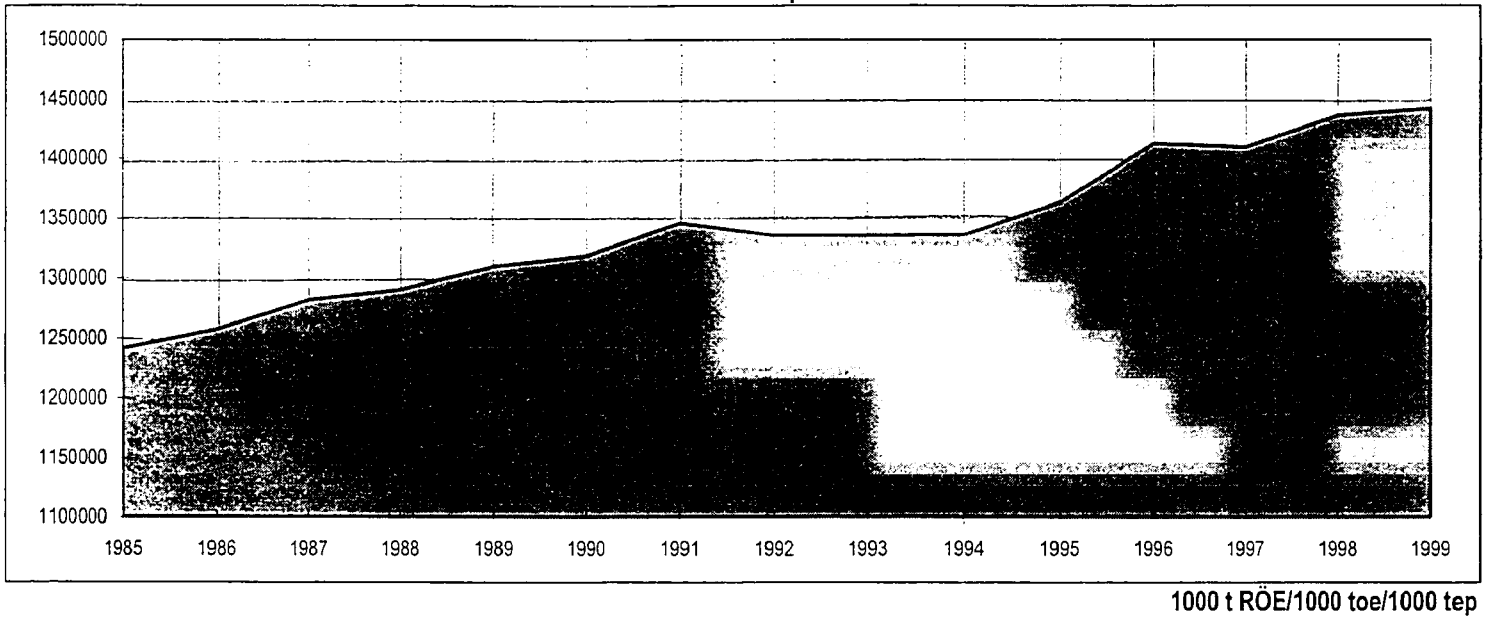
1000 t RÖE/1000 toe/1000 tep

Erzeugung aus Erneuerbaren Energiequellen/Renewable energy sources production/Production par sources d'énergie renouvelables

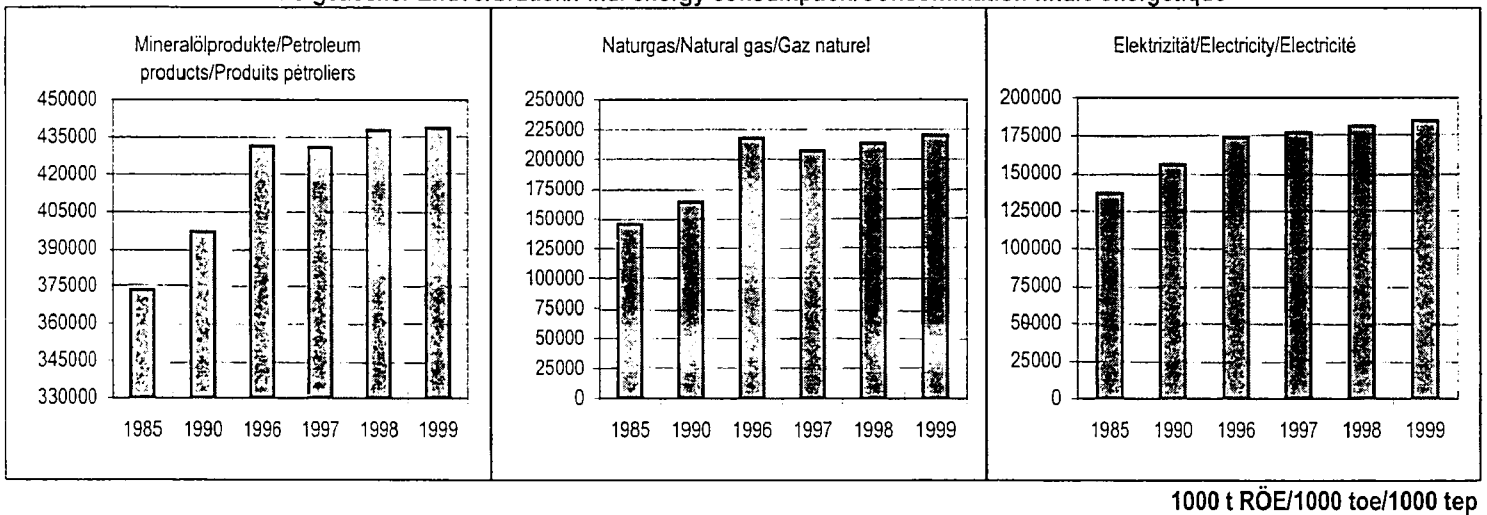


1000 t RÖE/1000 toe/1000 tep

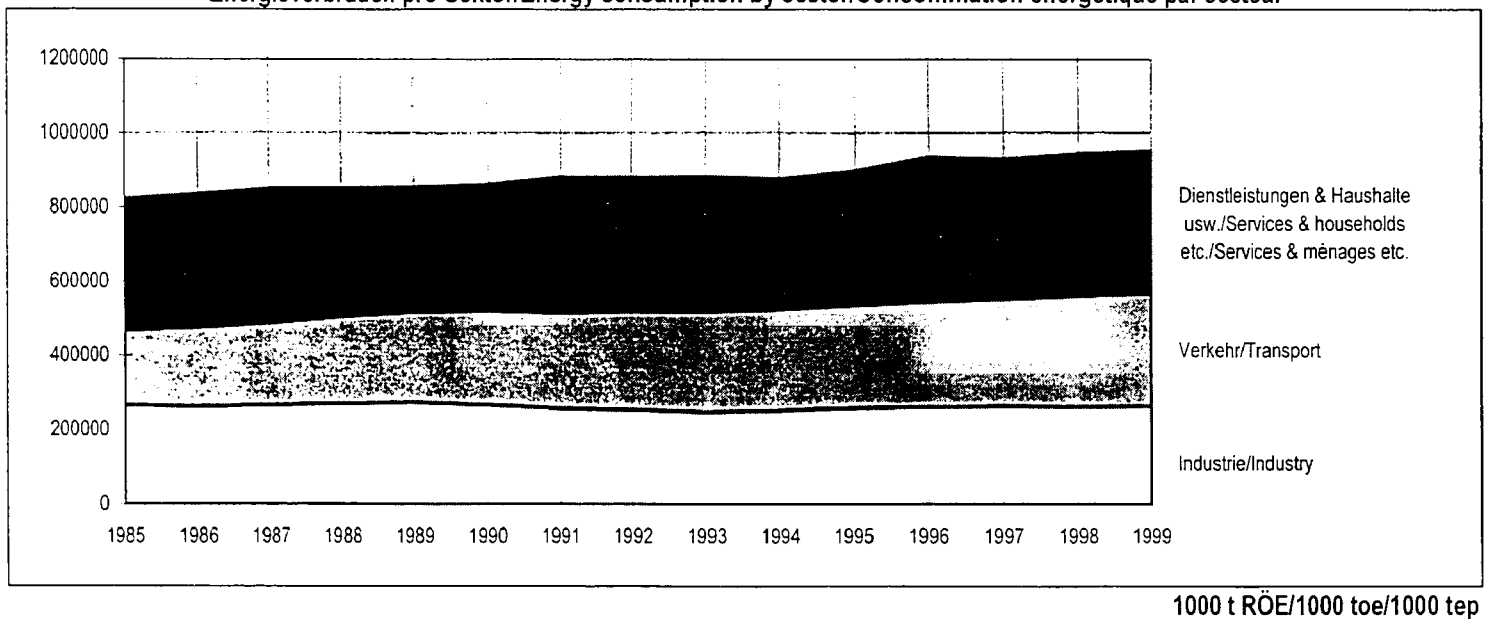
Bruttoinlandsverbrauch/Gross inland consumption/Consommation intérieure brute



Energetischer Endverbrauch/Final energy consumption/Consommation finale énergétique



Energieverbrauch pro Sektor/Energy consumption by sector/Consommation énergétique par secteur



# Energy economy

## Key figures

EU-15

Belgique/België

|   | 1985   | 1990   | 1997   | 1998   | 1999    | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|--------|--------|--------|--------|---------|-------|-------|-------|-------|-------|
| <b>Energy statistics (Mio toe)</b>                      |        |        |        |        |         |       |       |       |       |       |
| Primary energy production                               | 733.6  | 705.7  | 759.1  | 750.3  | 766.4*  | 13.2  | 12.0  | 12.6  | 12.1  | 13.4  |
| Net energy imports                                      | 526.7  | 643.8  | 692.7  | 723.7  | 705.5   | 32.0  | 38.9  | 47.1  | 50.0  | 46.8  |
| Net oil imports   | 382.3  | 460.9  | 469.4  | 489.6  | 457.0   | 19.1  | 21.5  | 27.4  | 28.9  | 25.9  |
| Gross inland consumption                                | 1241.9 | 1319.2 | 1410.3 | 1436.9 | 1442.4* | 43.8  | 47.3  | 55.1  | 56.2  | 56.8  |
| Final energy consumption                                | 823.9  | 863.3  | 931.8  | 946.4* | 954.8*  | 29.6  | 31.3  | 36.9  | 37.3  | 37.3  |
| Industry  | 264.9  | 266.0  | 263.4  | 262.1* | 263.5*  | 10.9  | 11.9  | 13.0  | 13.0  | 13.5  |
| Transport   | 202.6  | 253.8  | 288.9  | 299.5  | 305.8   | 6.1   | 7.7   | 9.2   | 9.6   | 9.6   |
| Services & households etc.                              | 356.3  | 343.4  | 379.5  | 384.8* | 385.6*  | 12.5  | 11.7  | 14.8  | 14.7  | 14.2  |
| <b>Socio-economic statistics</b>                        |        |        |        |        |         |       |       |       |       |       |
| Gross Domestic Product (Mrd EUR 1990)                   | 4490.1 | 5199.8 | 5930.8 | 6101.3 |         | 133.1 | 154.5 | 171.9 | 176.9 |       |
| Population (Mio)  | 358.8  | 364.5  | 374.2  | 374.8  | 373.8*  | 9.9   | 10.0  | 10.2  | 10.2  | 10.2* |
| Industry added value (Mrd EUR)                          |        |        |        |        |         | 33.2  | 38.2  | 41.5  |       |       |
| Total imports (1) (Mrd EUR)                             | 1005.3 | 1423.3 | 1944.1 | 2086.0 | 2182.0  | 72.9  | 101.8 | 132.1 | 138.7 | 143.8 |
| among which:  |        |        |        |        |         |       |       |       |       |       |
| All fuels   | 186.9  | 103.6  | 121.5  | 90.2   | 113.0   | 12.0  | 7.6   | 9.6   | 7.6   | 8.8   |
| Oil   | 158.8  | 87.4   | 94.3   | 65.0   | 89.0    | 8.8   | 5.4   | 6.9   | 5.0   | 7.0   |
| Motor vehicles in use (Mio)                             | 117.2  | 139.9  | 167.6  | 170.7* |         | 3.3   | 3.9   | 4.3   | 4.5   |       |
| <b>Indicators</b>                                       |        |        |        |        |         |       |       |       |       |       |
| <b>Energy dependency (in %)</b>                         |        |        |        |        |         |       |       |       |       |       |
| Net energy imports / Gross inland consumption + Bunkers | 41.5   | 47.6   | 47.8   | 48.9   | 47.6*   | 69.3  | 75.7  | 78.2  | 81.1  | 76.5  |
| Net oil imports / Gross inland consumption + Bunkers    | 30.1   | 34.1   | 32.4   | 33.1   | 30.8*   | 41.4  | 41.8  | 45.5  | 46.9  | 42.3  |
| <b>Energy intensity (kgoe / 1000 EUR)</b>               |        |        |        |        |         |       |       |       |       |       |
| Gross inland consumption / GDP                          | 276.6  | 253.7  | 237.8  | 235.5  |         | 329.6 | 305.9 | 320.6 | 317.7 |       |
| Final energy consumption / GDP                          | 183.5  | 166.0  | 157.1  | 155.1* |         | 222.3 | 202.6 | 214.8 | 211.0 |       |
| <b>Energy consumption per inhabitant (kgoe / cap)</b>   |        |        |        |        |         |       |       |       |       |       |
| Household consumption                                   | 670    | 626    | 660    | 672*   | 674*    | 923   | 836   | 969   | 969   | 931*  |
| <b>Rate in value (in %)</b>                             |        |        |        |        |         |       |       |       |       |       |
| Fuel imports / Total imports                            | 18.6   | 7.3    | 6.2    | 4.3    | 5.2     | 16.5  | 7.5   | 7.3   | 5.4   | 6.2   |
| Oil imports / Fuel imports                              | 85.0   | 84.3   | 77.6   | 72.0   | 78.8    | 73.4  | 71.0  | 71.4  | 66.3  | 78.6  |
| <b>Indices (1990 = 100)</b>                             |        |        |        |        |         |       |       |       |       |       |
| <b>Socio-economic indices</b>                           |        |        |        |        |         |       |       |       |       |       |
| Gross Domestic Product                                  | 86.4   | 100    | 114.1  | 117.3  |         | 86.1  | 100   | 111.3 | 114.5 |       |
| Total imports at current prices                         | 70.6   | 100    | 136.6  | 146.6  | 153.3   | 71.6  | 100   | 129.7 | 136.2 | 141.3 |
| Fuel imports at current prices                          | 180.3  | 100    | 117.3  | 87.1   | 109.1   | 157.8 | 100   | 126.2 | 99.2  | 116.1 |
| <b>Energy indices</b>                                   |        |        |        |        |         |       |       |       |       |       |
| Primary energy production                               | 103.9  | 100    | 107.6  | 106.3  | 108.6*  | 110.0 | 100   | 105.6 | 101.2 | 111.5 |
| Net energy imports                                      | 81.8   | 100    | 107.6  | 112.4  | 109.6   | 82.3  | 100   | 121.1 | 128.6 | 120.5 |
| Net oil imports   | 83.0   | 100    | 101.9  | 106.2  | 99.2    | 89.1  | 100   | 127.7 | 134.6 | 120.7 |
| Gross inland consumption                                | 94.1   | 100    | 106.9  | 108.9  | 109.3*  | 92.8  | 100   | 116.6 | 118.9 | 120.3 |
| Final energy consumption                                | 95.4   | 100    | 107.9  | 109.6* | 110.6*  | 94.5  | 100   | 118.0 | 119.2 | 119.2 |
| of which :  |        |        |        |        |         |       |       |       |       |       |
| Industry  | 99.6   | 100    | 99.0   | 98.5*  | 99.0*   | 91.9  | 100   | 109.1 | 109.4 | 113.8 |
| Transport   | 79.8   | 100    | 113.8  | 118.0  | 120.5   | 79.7  | 100   | 119.3 | 124.3 | 124.3 |
| Services & households etc.                              | 103.8  | 100    | 110.5  | 112.1* | 112.3*  | 107.0 | 100   | 126.1 | 125.9 | 121.3 |
| <b>Transport indices</b>                                |        |        |        |        |         |       |       |       |       |       |
| Fuel consumption by road transport                      | 80.1   | 100    | 112.3  | 115.8  | 117.9   | 79.4  | 100   | 113.1 | 116.5 | 117.9 |
| Motor vehicles in use                                   | 83.8   | 100    | 119.8  | 122.0* |         | 86.5  | 100   | 112.3 | 116.3 |       |

(1) in current prices

Danmark

Deutschland

| 1985  | 1990  | 1997  | 1998   | 1999   | 1985   | 1990   | 1997   | 1998   | 1999   |  |
|---|-------|-------|--------|--------|--------|--------|--------|--------|--------|--|
| <b>Energiestatistiken ( Mio t RÖE)</b>                    |       |       |        |        |        |        |        |        |        |  |
| 4.9   | 9.9   | 20.3  | 20.2   | 23.5   | 209.4  | 185.8  | 138.2  | 131.7  | 134.6  | Primär-Energieerzeugung                      |
| 15.5  | 9.1   | 4.2   | 1.8    | -2.9   | 152.8  | 165.3  | 208.3  | 212.7  | 202.3  | Netto-Energieeinfuhren                       |
| 8.2   | 3.2   | -0.4  | 0.0    | -4.4   | 118.2  | 120.1  | 135.5  | 139.4  | 127.8  | Netto-Rohöleinfuhren                         |
| 19.6  | 18.2  | 21.6  | 21.1   | 20.4   | 359.3  | 354.5  | 345.2  | 344.6  | 339.4  | Brutto-Inlandsverbrauch                      |
| 14.4  | 14.3  | 15.2  | 15.2   | 15.1   | 233.9  | 227.3  | 224.0  | 223.9* | 221.3* | Energie-Endverbrauch                         |
| davon :   |       |       |        |        |        |        |        |        |        |  |
| 2.9   | 2.9   | 3.1   | 3.1    | 3.0    | 78.9   | 71.5   | 58.4   | 57.6*  | 56.4*  | Industrie                                    |
| 3.6   | 4.5   | 4.8   | 4.8    | 4.9    | 48.0   | 58.8   | 63.7   | 64.8   | 66.8   | Verkehr                                      |
| 7.9   | 7.0   | 7.3   | 7.4    | 7.3    | 107.1  | 97.0   | 101.9  | 101.5* | 98.1*  | Dienstleistungen & Haushalte usw.            |
| <b>Sozio-Ökonomische Statistiken</b>                      |       |       |        |        |        |        |        |        |        |  |
| 91.7  | 101.6 | 122.4 | 125.7  |        | 1060.4 | 1182.2 | 1454.7 | #####  |        | Brutto-Inlandsprodukt (Mrd. EUR 1990)        |
| 5.1   | 5.1   | 5.3   | 5.3    | 5.3*   | 77.7   | 79.4   | 82.1   | 82.0   | 82.0*  | Bevölkerung (Mio)                            |
| 18.8  | 19.4  | 23.7  |        |        | 341.7  | 384.1  | 369.4  |        |        | Zugewinn der Industrie (Mrd. EUR)            |
| 27.3  | 32.3  | 46.7  | 49.1   | 50.9   | 227.4  | 306.3  | 424.0  | 446.0  | 463.0  | Gesamteinfuhren (1) (Mrd. EUR)               |
| darunter :  |       |       |        |        |        |        |        |        |        |  |
| 3.4   | 1.4   | 1.5   | 1.4    | 1.6    | 33.5   | 18.5   | 29.5   | 23.5   | 25.6   | Alle Brennstoffe                             |
| 3.3   | 1.2   | 1.4   | 1.0    | 1.3    | 31.9   | 17.2   | 20.4   | 15.3   | 18.4   | Öle  |
| 1.5   | 1.6   | 1.7   | 1.8*   |        | 25.8   | 30.7   | 41.4   | 41.7   |        | Automobilpark (Mio)                          |
| <b>Indikatoren</b>  |       |       |        |        |        |        |        |        |        |  |
| 77.6  | 47.4  | 18.2  | 8.1    | -13.6  | 42.1   | 46.3   | 60.0   | 61.4   | 59.2   | <b>Energieabhängigkeit</b> (in %)            |
| Netto-Energieeinfuhren / Brutto-Inlandsverbrauch + Bunker |       |       |        |        |        |        |        |        |        |  |
| 40.9  | 16.5  | -1.7  | -2     | -20.3  | 32.6   | 33.7   | 39.0   | 40.2   | 37.4   | <b>Energieintensität</b> (kg RÖE / 1000 EUR) |
| Netto-Rohöleinfuhren / Brutto-Inlandsverbrauch + Bunker   |       |       |        |        |        |        |        |        |        |  |
| 213.8   | 179.2 | 176.4 | 168.2  |        | 338.9  | 299.9  | 237.3  | 230.4  |        | Brutto-Inlandsverbrauch / BIP                |
| 157.1   | 141.1 | 124.6 | 121.0  |        | 220.6  | 192.3  | 154.0  | 149.7* |        | Energie-Endverbrauch / BIP                   |
| <b>Pro-Kopf-Energieverbrauch</b> (kg ROE pro Kopf)        |       |       |        |        |        |        |        |        |        |  |
| 3.833   | 3.542 | 4.087 | 3.988  | 3.843* | 4.626  | 4.467  | 4.208  | 4.201  | 4.138* | Brutto-Inlandsverbrauch                      |
| 1.096   | 804   | 854   | 841    | 819*   | 807    | 730    | 811    | 824*   | 792*   | Verbrauch der Haushalte                      |
| <b>Darstellung in Werten</b> (in %)                       |       |       |        |        |        |        |        |        |        |  |
| 12.4  | 4.2   | 3.3   | 2.8    | 3.2    | 14.7   | 6.1    | 7.0    | 5.3    | 5.5    | Brennstoffeinfuhren / Gesamteinfuhren        |
| 96.8  | 90.4  | 93.6  | 74.2   | 82.3   | 95.1   | 92.9   | 69.2   | 65.0   | 71.6   | Rohöleinfuhren / Brennstoffeinfuhren         |
| <b>Indizes (1990 = 100)</b>                               |       |       |        |        |        |        |        |        |        |  |
| 90.3  | 100   | 120.5 | 123.7  |        | 89.7   | 100    | 123.1  | 126.5  |        | <b>Sozio-Ökonomische Indizes</b>             |
| 84.4  | 100   | 144.5 | 151.9  | 157.5  | 74.2   | 100    | 138.4  | 145.6  | 151.1  | Brutto-Inlandsprodukt                        |
| 246.3   | 100   | 112.0 | 100.3  | 118.6  | 180.7  | 100    | 159.2  | 126.8  | 138.3  | Gesamteinfuhren zu laufenden Preisen         |
| Brennstoffeinfuhren zu laufenden Preisen                  |       |       |        |        |        |        |        |        |        |  |
| 48.8  | 100   | 203.8 | 203.1  | 236.8  | 112.7  | 100    | 74.3   | 70.9   | 72.4   | <b>Energieindizes</b>                        |
| 171.1   | 100   | 46.3  | 20.1   | -32.4  | 92.5   | 100    | 126.1  | 128.7  | 122.4  | Primär-Energieerzeugung                      |
| 258.9   | 100   | -12.5 | -1.2   | -139.1 | 98.4   | 100    | 112.8  | 116.1  | 106.4  | Netto-Energieeinfuhren                       |
| 107.7   | 100   | 118.6 | 116.1  | 111.9  | 101.4  | 100    | 97.4   | 97.2   | 95.7   | Netto-Rohöleinfuhren                         |
| 100.5   | 100   | 106.4 | 106.1  | 105.6  | 102.9  | 100    | 98.6   | 98.5*  | 97.4*  | Brutto-Inlandsverbrauch                      |
| Energie-Endverbrauch                                      |       |       |        |        |        |        |        |        |        |  |
| davon :   |       |       |        |        |        |        |        |        |        |  |
| 101.0   | 100   | 108.8 | 106.0  | 104.0  | 110.3  | 100    | 81.7   | 80.6*  | 78.9*  | Industrie                                    |
| 80.8  | 100   | 106.3 | 106.2  | 108.7  | 81.6   | 100    | 108.3  | 110.1  | 113.6  | Verkehr                                      |
| 113.0   | 100   | 105.4 | 106.0  | 104.3  | 110.4  | 100    | 105.1  | 104.7* | 101.2* | Dienstleistungen & Haushalte usw.            |
| <b>Verkehrsindizes</b>                                    |       |       |        |        |        |        |        |        |        |  |
| 87.5  | 100   | 115.2 | 116.1  | 118.1  | 80.7   | 100    | 108.6  | 110.6  | 114.1  | Brennstoffverbrauch des Straßenverkehrs      |
| 94.4  | 100   | 109.1 | 112.1* |        | 84.2   | 100    | 134.8  | 135.8  |        | Automobilpark                                |

(1) in laufenden Preisen

# Energy economy

## Key figures

Ellada

España

|   | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Energy statistics (Mio toe)</b>                      |       |       |       |       |       |       |       |       |       |       |
| Primary energy production                               | 7.3   | 9.2   | 9.9   | 10.1  | 9.5   | 30.2  | 33.4  | 30.9  | 31.5  | 30.3  |
| Net energy imports                                      | 11.8  | 15.4  | 19.2  | 21.1  | 19.7  | 46.4  | 59.9  | 80.2  | 87.5  | 94.4  |
| Net oil imports   | 10.5  | 14.3  | 18.1  | 19.4  | 17.8  | 39.1  | 49.2  | 61.9  | 66.4  | 68.1  |
| Gross inland consumption                                | 18.3  | 22.2  | 25.6  | 26.9  | 25.8  | 73.9  | 89.1  | 106.1 | 111.1 | 117.5 |
| Final energy consumption                                | 12.5  | 14.5  | 17.3  | 18.2  | 18.2  | 47.5  | 56.5  | 67.7  | 71.7  | 74.3  |
| Industry  | 3.7   | 3.9   | 4.3   | 4.4   | 4.2   | 18.8  | 19.8  | 21.6  | 22.5  | 22.4  |
| Transport   | 4.7   | 5.8   | 6.7   | 7.3   | 7.5   | 15.1  | 22.3  | 28.0  | 30.5  | 31.9  |
| Services & households etc.                              | 4.1   | 4.8   | 6.2   | 6.5   | 6.6   | 13.6  | 14.4  | 18.1  | 18.8  | 20.0  |
| <b>Socio-economic statistics</b>                        |       |       |       |       |       |       |       |       |       |       |
| Gross Domestic Product (Mrd EUR 1990)                   | 59.5  | 65.3  | 73.3  | 76.0  |       | 313.3 | 398.2 | 450.1 | 467.2 |       |
| Population (Mio)  | 9.9   | 10.2  | 10.5  | 10.5  | 10.5* | 38.4  | 38.9  | 39.3  | 39.4  | 39.4* |
| Industry added value (Mrd EUR)                          | 10.9  | 11.6  | 11.9  |       |       | 82.8  | 102.0 | 115.0 |       |       |
| Total imports (1) (Mrd EUR)                             | 11.7  | 18.3  | 23.1  | 24.5  | 25.9  | 39.8  | 79.2  | 130.3 | 144.1 | 157.5 |
| among which:  |       |       |       |       |       |       |       |       |       |       |
| All fuels   | 3.9   | 1.2   | 1.8   | 2.0   | 1.5   | 12.5  | 7.5   | 9.5   | 7.8   | 9.0   |
| Oil   | 3.8   | 1.1   | 1.7   | 1.8   | 1.3   | 11.2  | 6.6   | 7.5   | 5.8   | 7.0   |
| Motor vehicles in use (Mio)                             | 1.3   | 1.7   | 2.5   | 2.7   |       | 9.3   | 12.0  | 15.3  | 16.1  |       |
| <b>Indicators</b>                                       |       |       |       |       |       |       |       |       |       |       |
| <b>Energy dependency</b> (in %)                         |       |       |       |       |       |       |       |       |       |       |
| Net energy imports / Gross inland consumption + Bunkers | 60.7  | 62.1  | 66.8  | 69.5  | 66.1  | 60.6  | 64.4  | 71.8  | 74.8  | 76.6  |
| Net oil imports / Gross inland consumption + Bunkers    | 54.1  | 57.8  | 63.0  | 64.0  | 59.5  | 51.1  | 52.9  | 55.4  | 56.7  | 55.3  |
| <b>Energy intensity</b> (kgoe / 1000 EUR)               |       |       |       |       |       |       |       |       |       |       |
| Gross inland consumption / GDP                          | 308.4 | 340.9 | 349.2 | 353.8 |       | 235.9 | 223.7 | 235.7 | 237.8 |       |
| Final energy consumption / GDP                          | 210.5 | 222.7 | 235.7 | 239.1 |       | 151.7 | 141.9 | 150.4 | 153.4 |       |
| <b>Energy consumption per inhabitant</b> (kgoe / cap)   |       |       |       |       |       |       |       |       |       |       |
| Household consumption                                   | 283   | 318   | 388   | 402   | 404*  | 230   | 238   | 273   | 282   | 300*  |
| <b>Rate in value</b> (in %)                             |       |       |       |       |       |       |       |       |       |       |
| Fuel imports / Total imports                            | 33.8  | 6.5   | 7.9   | 8.1   | 5.7   | 31.3  | 9.4   | 7.3   | 5.4   | 5.7   |
| Oil imports / Fuel imports                              | 96.6  | 95.5  | 93.3  | 92.5  | 91.0  | 90.0  | 88.0  | 78.7  | 74.7  | 78.2  |
| <b>Indices (1990 = 100)</b>                             |       |       |       |       |       |       |       |       |       |       |
| <b>Socio-economic indices</b>                           |       |       |       |       |       |       |       |       |       |       |
| Gross Domestic Product                                  | 91.1  | 100   | 112.4 | 116.5 |       | 78.7  | 100   | 113.0 | 117.3 |       |
| Total imports at current prices                         | 63.6  | 100   | 126.3 | 133.5 | 141.2 | 50.3  | 100   | 164.6 | 182.0 | 198.9 |
| Fuel imports at current prices                          | 330.7 | 100   | 153.7 | 166.8 | 124.3 | 166.8 | 100   | 127.7 | 104.0 | 119.9 |
| <b>Energy indices</b>                                   |       |       |       |       |       |       |       |       |       |       |
| Primary energy production                               | 80.2  | 100   | 108.7 | 110.0 | 103.7 | 90.7  | 100   | 92.5  | 94.3  | 90.9  |
| Net energy imports                                      | 76.8  | 100   | 124.9 | 137.3 | 128.4 | 77.5  | 100   | 134.0 | 146.3 | 157.7 |
| Net oil imports   | 73.4  | 100   | 126.4 | 135.6 | 124.1 | 79.5  | 100   | 125.9 | 135.1 | 138.6 |
| Gross inland consumption                                | 82.4  | 100   | 115.1 | 120.9 | 120.4 | 83.0  | 100   | 119.1 | 124.7 | 131.9 |
| Final energy consumption                                | 86.1  | 100   | 118.9 | 125.1 | 125.1 | 84.1  | 100   | 119.7 | 126.8 | 131.4 |
| of which :  |       |       |       |       |       |       |       |       |       |       |
| Industry  | 94.9  | 100   | 110.3 | 112.4 | 105.6 | 95.4  | 100   | 109.3 | 113.7 | 113.3 |
| Transport   | 80.4  | 100   | 115.6 | 125.4 | 128.1 | 67.5  | 100   | 125.5 | 136.4 | 142.8 |
| Services & households etc.                              | 85.9  | 100   | 130.0 | 135.3 | 137.5 | 94.3  | 100   | 125.1 | 129.8 | 138.7 |
| <b>Transport indices</b>                                |       |       |       |       |       |       |       |       |       |       |
| Fuel consumption by road transport                      | 78.3  | 100   | 126.0 | 132.3 | 134.7 | 66.8  | 100   | 124.1 | 135.9 | 143.1 |
| Motor vehicles in use                                   | 72.8  | 100   | 144.0 | 154.1 |       | 77.3  | 100   | 127.5 | 133.8 |       |

(1) in current prices



France

Ireland

| 1985                                       | 1990  | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998   | 1999  |   |
|--|-------|--------|--------|--------|-------|-------|-------|--------|-------|---|
| <b>Statistiques énergétiques (Mio tep)</b> |       |        |        |        |       |       |       |        |       |   |
| 91.1                                       | 108.1 | 123.8  | 120.6  | 122.2  | 2.9   | 3.5   | 2.8   | 2.5    | 2.6   | Production d'énergie primaire   |
| 111.7                                      | 119.8 | 122.1  | 131.6  | 131.3  | 5.3   | 7.1   | 9.5   | 10.6   | 11.7  | Importations nettes d'énergie   |
| 81.1                                       | 86.6  | 88.7   | 93.3   | 89.7   | 4.1   | 5.0   | 6.7   | 7.4    | 8.3   | Importations nettes de pétrole  |
| 204.0                                      | 223.2 | 243.1  | 250.7  | 249.9  | 8.8   | 10.3  | 12.2  | 13.0   | 13.9  | Consommation intérieure brute   |
| 131.1                                      | 136.1 | 145.5  | 150.5  | 152.1* | 6.2   | 7.1   | 8.6   | 9.2    | 9.7   | Consommation finale d'énergie   |
| <i>soit :</i>                              |       |        |        |        |       |       |       |        |       |   |
| 38.1                                       | 37.0  | 36.6   | 37.1   | 36.4*  | 1.8   | 1.8   | 1.8   | 1.9    | 2.0   | Industrie   |
| 33.5                                       | 41.9  | 46.8   | 49.4   | 50.4   | 1.7   | 2.0   | 2.9   | 3.3    | 3.7   | Transport   |
| 59.5                                       | 57.1  | 62.0   | 64.0   | 65.3*  | 2.7   | 3.3   | 3.9   | 4.0    | 4.1   | Services & ménages etc.   |
| <b>Statistiques socio-économiques</b>      |       |        |        |        |       |       |       |        |       |   |
| 811.0                                      | 940.0 | 1022.7 | 1055.4 |        | 27.4  | 35.9  | 57.8  | 64.7   |       | Produit Intérieur Brut (Mrd EUR 1990)                                   |
| 55.3                                       | 56.7  | 58.6   | 58.9   | 58.9*  | 3.5   | 3.5   | 3.7   | 3.7    | 3.7*  | Population (Mio)  |
| 204.7                                      | 226.1 | 243.5  |        |        |       |       |       |        |       | Valeur ajoutée de l'industrie (Mrd EUR)                                 |
| 145.0                                      | 212.6 | 268.8  | 290.3  | 302.5  | 13.4  | 18.9  | 36.2  | 42.7   | 49.1  | Importations totales (1) (Mrd EUR)                                      |
| <i>dont :</i>                              |       |        |        |        |       |       |       |        |       |   |
| 31.7                                       | 17.6  | 19.2   | 14.9   | 17.7   | 1.6   | 1.0   | 1.2   | 1.0    | 1.3   | Tous combustibles   |
| 24.9                                       | 13.4  | 14.6   | 10.6   | 13.5   | 1.3   | 0.8   | 0.9   | 0.7    | 1.0   | Pétrole   |
| 21.1                                       | 23.6  | 26.1   | 26.8   |        | 0.7   | 0.8   | 1.1   | 1.1*   |       | Parc automobile (Mio)   |
| <b>Indicateurs</b>                         |       |        |        |        |       |       |       |        |       |   |
|  |       |        |        |        |       |       |       |        |       | <b>Dépendance énergétique (en %)</b>                                    |
| 54.1                                       | 53.1  | 49.6   | 51.9   | 51.9   | 60.1  | 69.0  | 76.5  | 80.5   | 83.1  | Importations nettes d'énergie / Consommation intérieure brute + Soutes  |
| 39.3                                       | 38.3  | 36.0   | 36.8   | 35.5   | 45.8  | 48.7  | 53.8  | 56.1   | 58.7  | Importations nettes de pétrole / Consommation intérieure brute + Soutes |
|  |       |        |        |        |       |       |       |        |       | <b>Intensité énergétique (kgep / 1000 EUR)</b>                          |
| 251.5                                      | 237.4 | 237.7  | 237.5  |        | 322.4 | 285.9 | 211.9 | 201.6  |       | Consommation intérieure brute / PIB                                     |
| 161.6                                      | 144.8 | 142.2  | 142.6  |        | 226.5 | 197.7 | 149.4 | 142.6  |       | Consommation finale d'énergie / PIB                                     |
|  |       |        |        |        |       |       |       |        |       | <b>Consommation d'énergie par habitant (kgep / hab)</b>                 |
| 3 690                                      | 3 934 | 4 149  | 4 260  | 4247*  | 2 494 | 2 924 | 3 345 | 3 520  | 3752* | Consommation intérieure brute   |
| 722  | 644   | 644    | 658    | 673*   | 604   | 625   | 609   | 649    | 651*  | Consommation des ménages  |
|  |       |        |        |        |       |       |       |        |       | <b>Rapport en valeur (en %)</b>   |
| 21.8                                       | 8.3   | 7.1    | 5.1    | 5.9    | 11.7  | 5.3   | 3.3   | 2.3    | 2.6   | Import. combustibles / Total importations                               |
| 78.6                                       | 76.4  | 76.0   | 71.2   | 76.1   | 84.7  | 82.5  | 78.1  | 72.7   | 76.3  | Importations pétrole / Import. combustibles                             |
| <b>Indices (1990 = 100)</b>                |       |        |        |        |       |       |       |        |       |   |
|  |       |        |        |        |       |       |       |        |       | <b>Indices socio-économiques</b>  |
| 86.3                                       | 100   | 108.8  | 112.3  |        | 76.4  | 100   | 161.2 | 180.4  |       | Produit Intérieur Brut  |
| 68.2                                       | 100   | 126.5  | 136.6  | 142.3  | 70.9  | 100   | 191.3 | 225.8  | 259.6 | Importations totales à prix courant                                     |
| 180.5                                      | 100   | 109.4  | 85.0   | 101.1  | 157.2 | 100   | 121.2 | 100.0  | 128.4 | Importations de combustibles à prix courant                             |
|  |       |        |        |        |       |       |       |        |       | <b>Indices de l'énergie</b>   |
| 84.3                                       | 100   | 114.6  | 111.6  | 113.1  | 81.9  | 100   | 81.3  | 70.9   | 74.7  | Production d'énergie primaire   |
| 93.3                                       | 100   | 101.9  | 109.9  | 109.6  | 75.1  | 100   | 133.9 | 150.0  | 165.2 | Importations nettes d'énergie   |
| 93.7                                       | 100   | 102.4  | 107.8  | 103.7  | 81.2  | 100   | 133.3 | 147.9  | 165.2 | Importations nettes de pétrole  |
| 91.4                                       | 100   | 108.9  | 112.3  | 112.0  | 86.1  | 100   | 119.5 | 127.2  | 135.6 | Consommation intérieure brute   |
| 96.3                                       | 100   | 106.9  | 110.6  | 111.8* | 87.5  | 100   | 121.8 | 130.1  | 137.4 | Consommation finale d'énergie   |
| <i>soit :</i>                              |       |        |        |        |       |       |       |        |       |   |
| 102.7                                      | 100   | 98.8   | 100.2  | 98.4*  | 98.8  | 100   | 102.6 | 106.9  | 110.6 | Industrie   |
| 80.0                                       | 100   | 111.8  | 117.8  | 120.2  | 85.9  | 100   | 148.7 | 167.6  | 187.1 | Transport   |
| 104.2                                      | 100   | 108.6  | 112.1  | 114.3* | 82.4  | 100   | 116.2 | 120.4  | 122.5 | Services & ménages etc.   |
|  |       |        |        |        |       |       |       |        |       | <b>Indices des transports</b>   |
| 81.2                                       | 100   | 109.5  | 113.4  | 115.6  | 92.6  | 100   | 153.0 | 175.1  | 193.5 | Consom. de carburant du transport routier                               |
| 89.6                                       | 100   | 110.8  | 113.8  |        | 89.8  | 100   | 142.5 | 142.5* |       | Parc automobile   |

(1) à prix courant

# Energy economy

## Key figures

Italia

Luxembourg

|   | 1985  | 1990  | 1997  | 1998   | 1999   | 1985  | 1990  | 1997  | 1998   | 1999  |
|---|-------|-------|-------|--------|--------|-------|-------|-------|--------|-------|
| <b>Energy statistics (Mio toe)</b>                      |       |       |       |        |        |       |       |       |        |       |
| Primary energy production                               | 24.8  | 27.2  | 34.7  | 34.5   | 33.0*  | 0.0   | 0.0   | 0.0   | 0.1    | 0.0   |
| Net energy imports                                      | 114.4 | 132.0 | 134.2 | 140.4  | 143.7  | 3.1   | 3.5   | 3.3   | 3.3    | 3.3   |
| Net oil imports   | 81.6  | 89.9  | 88.3  | 90.4   | 87.8   | 1.1   | 1.6   | 1.9   | 2.0    | 2.1   |
| Gross inland consumption                                | 136.1 | 154.8 | 168.1 | 172.6  | 175.2* | 3.1   | 3.6   | 3.4   | 3.3    | 3.4   |
| Final energy consumption                                | 96.5  | 110.4 | 121.2 | 123.5  | 128.3* | 3.0   | 3.3   | 3.2   | 3.2    | 3.4   |
| Industry  | 31.5  | 36.9  | 37.4  | 36.6   | 39.2*  | 1.8   | 1.7   | 1.0   | 0.9    | 0.9   |
| Transport   | 27.8  | 33.4  | 38.7  | 40.9   | 41.0   | 0.6   | 1.0   | 1.5   | 1.6    | 1.7   |
| Services & households etc.                              | 37.2  | 40.1  | 45.1  | 46.0   | 48.1*  | 0.6   | 0.6   | 0.7   | 0.8    | 0.7   |
| <b>Socio-economic statistics</b>                        |       |       |       |        |        |       |       |       |        |       |
| Gross Domestic Product (Mrd EUR 1990)                   | 744.0 | 861.2 | 930.4 | 943.4  |        | 7.0   | 8.5   | 10.9  | 11.6   |       |
| Population (Mio)  | 56.6  | 56.7  | 57.5  | 57.6   | 57.6*  | 0.4   | 0.4   | 0.4   | 0.4    | 0.4*  |
| Industry added value (Mrd EUR)                          | 197.8 | 237.2 | 257.8 |        |        | 1.6   | 2.0   | 1.3   |        |       |
| Total imports (1) (Mrd EUR)                             | 116.5 | 172.3 | 224.7 | 238.4  | 241.5  | 5.9   | 8.2   | 10.9  | 11.8   | 12.4  |
| among which:  |       |       |       |        |        |       |       |       |        |       |
| All fuels   | 31.3  | 14.9  | 14.6  | 10.7   | 13.3   | -     | -     | -     | -      | 0.4   |
| Oil   | 25.6  | 13.7  | 13.1  | 9.5    | 11.9   | -     | -     | -     | -      | -     |
| Motor vehicles in use (Mio)                             | 22.5  | 27.4  | 31.8  | 31.8*  |        | 0.2   | 0.2   | 0.2   | 0.2*   |       |
| <b>Indicators</b>                                       |       |       |       |        |        |       |       |       |        |       |
| <b>Energy dependency (in %)</b>                         |       |       |       |        |        |       |       |       |        |       |
| Net energy imports / Gross inland consumption + Bunkers | 82.0  | 83.8  | 78.8  | 80.1   | 80.9*  | 99.0  | 99.0  | 98.4  | 99.6   | 97.3  |
| Net oil imports / Gross inland consumption + Bunkers    | 58.5  | 57.1  | 51.8  | 51.6   | 49.4*  | 34.3  | 45.6  | 57.1  | 62.6   | 61.1  |
| <b>Energy intensity (kgoe / 1000 EUR)</b>               |       |       |       |        |        |       |       |       |        |       |
| Gross inland consumption / GDP                          | 182.9 | 179.7 | 180.6 | 182.9  |        | 448.0 | 419.6 | 306.5 | 283.2  |       |
| Final energy consumption / GDP                          | 129.8 | 128.2 | 130.3 | 130.9  |        | 424.5 | 392.2 | 295.8 | 275.4  |       |
| <b>Energy consumption per inhabitant (kgoe / cap)</b>   |       |       |       |        |        |       |       |       |        |       |
| Household consumption                                   | 537   | 584   | 625   | 651    | 686*   | 1 422 | 1 314 | 1 447 | 1 055  | 990*  |
| <b>Rate in value (in %)</b>                             |       |       |       |        |        |       |       |       |        |       |
| Fuel imports / Total imports                            | 26.9  | 8.7   | 6.5   | 4.5    | 5.5    | -     | -     | -     | -      | -     |
| Oil imports / Fuel imports                              | 81.6  | 91.5  | 89.9  | 88.2   | 89.6   | -     | -     | -     | -      | -     |
| <b>Indices (1990 = 100)</b>                             |       |       |       |        |        |       |       |       |        |       |
| <b>Socio-economic indices</b>                           |       |       |       |        |        |       |       |       |        |       |
| Gross Domestic Product                                  | 86.4  | 100   | 108.0 | 109.6  |        | 82.7  | 100   | 129.2 | 136.6  |       |
| Total imports at current prices                         | 67.6  | 100   | 130.4 | 138.4  | 140.2  | 72.6  | 100   | 132.9 | 144.2  | 151.4 |
| Fuel imports at current prices                          | 209.6 | 100   | 97.6  | 71.9   | 89.2   |       |       |       |        |       |
| <b>Energy indices</b>                                   |       |       |       |        |        |       |       |       |        |       |
| Primary energy production                               | 91.2  | 100   | 127.5 | 126.7  | 121.2* | 106.5 | 100   | 100.0 | 108.7  | 97.8  |
| Net energy imports                                      | 86.7  | 100   | 101.7 | 106.4  | 108.9  | 88.3  | 100   | 93.8  | 92.7   | 95.2  |
| Net oil imports   | 90.8  | 100   | 98.2  | 100.6  | 97.7   | 66.3  | 100   | 118.0 | 126.4  | 129.6 |
| Gross inland consumption                                | 87.9  | 100   | 108.6 | 111.5  | 113.2* | 88.3  | 100   | 94.4  | 92.2   | 96.8  |
| Final energy consumption                                | 87.4  | 100   | 109.8 | 111.9  | 116.2* | 89.5  | 100   | 97.4  | 95.9   | 101.1 |
| of which :  |       |       |       |        |        |       |       |       |        |       |
| Industry  | 85.5  | 100   | 101.4 | 99.3   | 106.3* | 103.1 | 100   | 60.1  | 50.2   | 55.0  |
| Transport   | 83.1  | 100   | 115.8 | 122.5  | 122.7  | 59.4  | 100   | 145.7 | 154.3  | 169.6 |
| Services & households etc.                              | 92.9  | 100   | 112.5 | 114.6  | 119.8* | 101.0 | 100   | 123.9 | 129.3  | 118.7 |
| <b>Transport indices</b>                                |       |       |       |        |        |       |       |       |        |       |
| Fuel consumption by road transport                      | 82.0  | 100   | 113.9 | 120.5  | 120.5  | 58.9  | 100   | 138.4 | 144.5  | 156.1 |
| Motor vehicles in use                                   | 82.1  | 100   | 115.9 | 115.9* |        | 79.2  | 100   | 120.8 | 120.8* |       |

(1) in current prices

Niederland

Österreich

| 1985                                       | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| <b>Statistiques énergétiques (Mio tep)</b> |       |       |       |       |       |       |       |       |       |  |
| 65.4                                       | 60.3  | 65.5  | 62.7  | 59.2  | 8.4   | 8.7   | 9.1   | 9.1   | 9.4   | Primär-Energieerzeugung                            |
| 4.1  | 17.4  | 22.7  | 23.5  | 25.8  | 15.5  | 17.3  | 18.9  | 19.8  | 18.7  | Netto-Energieeinführen                             |
| 24.2                                       | 30.9  | 36.5  | 36.5  | 36.6  | 8.4   | 9.7   | 10.7  | 11.6  | 11.0  | Netto-Rohöleinführen                               |
| 61.6                                       | 66.8  | 75.0  | 75.0  | 74.4  | 23.7  | 25.7  | 28.5  | 28.8  | 28.4  | Brutto-Inlandsverbrauch                            |
| 42.6                                       | 42.9  | 49.1  | 49.3  | 48.5  | 19.2  | 19.9  | 22.9  | 22.6  | 22.8  | Energie-Endverbrauch                               |
| davon :                                    |       |       |       |       |       |       |       |       |       |  |
| 13.8                                       | 13.2  | 13.2  | 13.1  | 12.8  | 5.9   | 5.8   | 7.1   | 6.9   | 6.3   | Industrie  |
| 8.8  | 10.3  | 13.5  | 13.6  | 13.8  | 4.5   | 5.4   | 6.4   | 6.0   | 6.2   | Verkehr  |
| 20.1                                       | 19.4  | 22.4  | 22.5  | 21.9  | 8.8   | 8.8   | 9.5   | 9.7   | 10.4  | Dienstleistungen & Haushalte usw.                  |
| <b>Statistiques socio-économiques</b>      |       |       |       |       |       |       |       |       |       |  |
| 192.0                                      | 222.5 | 264.0 | 273.7 |       | 107.3 | 125.6 | 144.2 | 149.0 |       | Brutto-Inlandsprodukt (Mrd. EUR 1990)              |
| 14.5                                       | 15.0  | 15.6  | 15.7  | 15.7* | 7.6   | 7.7   | 8.1   | 8.1   | 8.1*  | Bevölkerung (Mio)                                  |
| 47.9                                       | 51.3  | 56.5  |       |       | 28.2  | 32.5  | 18.7  |       |       | Zugewinn der Industrie (Mrd. EUR)                  |
| 85.7                                       | 110.6 | 148.8 | 160.1 | 167.3 | 37.1  | 48.8  | 70.3  | 74.9  | 79.0  | Gesamteinführen (1) (Mrd. EUR)                     |
| darunter :                                 |       |       |       |       |       |       |       |       |       |  |
| 21.0                                       | 12.1  | 12.6  | 5.1   | 14.0  | 4.1   | 2.5   | 3.0   | 2.6   | 2.9   | Alle Brennstoffe                                   |
| 19.0                                       | 10.6  | 10.6  | 3.2   | 12.1  | 2.6   | 1.6   | 1.9   | 1.5   | 2.0   | Öle  |
| 4.9  | 5.5   | 5.9   | 5.9*  |       | 2.5   | 3.0   | 3.8   | 3.9   |       | Automobilpark (Mio)                                |
| <b>Indicateurs</b>                         |       |       |       |       |       |       |       |       |       |  |
| 5.8  | 22.4  | 26.1  | 26.9  | 29.7  | 65.3  | 67.3  | 66.3  | 68.9  | 66.1  | <b>Energieabhängigkeit (in %)</b>                  |
| Netto-Energieeinführen                     |       |       |       |       |       |       |       |       |       |  |
| Brutto-Inlandsverbrauch + Bunker           |       |       |       |       |       |       |       |       |       |  |
| 34.4                                       | 39.8  | 41.9  | 41.8  | 42.1  | 35.5  | 37.9  | 37.5  | 40.2  | 39.0  | Netto-Rohöleinführen                               |
| Brutto-Inlandsverbrauch + Bunker           |       |       |       |       |       |       |       |       |       |  |
| 320.9                                      | 300.2 | 284.3 | 274.0 |       | 220.5 | 204.3 | 197.5 | 193.2 |       | <b>Energieintensität (kg ROE / 1000 EUR)</b>       |
| Brutto-Inlandsverbrauch / BIP              |       |       |       |       |       |       |       |       |       |  |
| Energie-Endverbrauch / BIP                 |       |       |       |       |       |       |       |       |       |  |
| 222.1                                      | 192.9 | 186.1 | 180.0 |       | 178.9 | 158.8 | 158.8 | 151.8 |       | <b>Pro-Kopf-Energieverbrauch (kg ROE pro Kopf)</b> |
| Brutto-Inlandsverbrauch                    |       |       |       |       |       |       |       |       |       |  |
| Verbrauch der Haushalte                    |       |       |       |       |       |       |       |       |       |  |
| 24.5                                       | 11.0  | 8.5   | 3.2   | 8.4   | 10.9  | 5.1   | 4.3   | 3.4   | 3.7   | <b>Darstellung in Werten (in %)</b>                |
| Brennstoffeinführen / Gesamteinführen      |       |       |       |       |       |       |       |       |       |  |
| Rohöleinführen / Brennstoffeinführen       |       |       |       |       |       |       |       |       |       |  |
| <b>Indices (1990 = 100)</b>                |       |       |       |       |       |       |       |       |       |  |
| 86.3                                       | 100   | 118.6 | 123.0 |       | 85.5  | 100   | 114.9 | 118.6 |       | <b>Sozio-Ökonomische Indizes</b>                   |
| Brutto-Inlandsprodukt                      |       |       |       |       |       |       |       |       |       |  |
| 77.5                                       | 100   | 134.5 | 144.7 | 151.2 | 76.1  | 100   | 144.1 | 153.5 | 161.8 | Gesamteinführen zu laufenden Preisen               |
| Brennstoffeinführen zu laufenden Preisen   |       |       |       |       |       |       |       |       |       |  |
| 172.9                                      | 100   | 103.9 | 41.9  | 115.1 | 162.9 | 100   | 121.2 | 102.4 | 115.7 | <b>Energieindizes</b>                              |
| Primär-Energieerzeugung                    |       |       |       |       |       |       |       |       |       |  |
| Netto-Energieeinführen                     |       |       |       |       |       |       |       |       |       |  |
| Netto-Rohöleinführen                       |       |       |       |       |       |       |       |       |       |  |
| Brutto-Inlandsverbrauch                    |       |       |       |       |       |       |       |       |       |  |
| Energie-Endverbrauch                       |       |       |       |       |       |       |       |       |       |  |
| davon :                                    |       |       |       |       |       |       |       |       |       |  |
| Industrie                                  |       |       |       |       |       |       |       |       |       |  |
| Verkehr                                    |       |       |       |       |       |       |       |       |       |  |
| Dienstleistungen & Haushalte usw.          |       |       |       |       |       |       |       |       |       |  |
| <b>Verkehrsindizes</b>                     |       |       |       |       |       |       |       |       |       |  |
| Brennstoffverbrauch des Straßenverkehrs    |       |       |       |       |       |       |       |       |       |  |
| Automobilpark                              |       |       |       |       |       |       |       |       |       |  |

(1) in laufenden Preisen

# Energy economy

## Key figures

Portugal

Suomi/Finland

|   | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Energy statistics (Mio toe)</b>                      |       |       |       |       |       |       |       |       |       |       |
| Primary energy production                               | 3.2   | 2.7   | 3.2   | 3.0   | 2.7   | 11.2  | 11.7  | 14.7  | 13.1  | 15.2  |
| Net energy imports                                      | 9.6   | 15.2  | 18.4  | 19.4  | 22.1  | 16.1  | 18.0  | 18.5  | 18.3  | 17.2  |
| Net oil imports   | 8.5   | 12.4  | 14.5  | 15.5  | 16.5  | 10.9  | 10.5  | 10.3  | 11.0  | 10.3  |
| Gross inland consumption                                | 12.4  | 16.7  | 20.9  | 22.3  | 24.0  | 26.7  | 28.5  | 32.6  | 33.1  | 32.7  |
| Final energy consumption                                | 9.5   | 11.1  | 14.7  | 15.4  | 16.0  | 18.9  | 21.3  | 23.2  | 24.1  | 24.6  |
| Industry  | 3.7   | 4.0   | 5.1   | 5.2   | 5.3   | 8.4   | 9.2   | 10.8  | 11.4  | 12.0  |
| Transport   | 2.7   | 3.7   | 5.3   | 5.7   | 6.0   | 3.3   | 4.3   | 4.2   | 4.3   | 4.4   |
| Services & households etc.                              | 3.2   | 3.3   | 4.4   | 4.4   | 4.7   | 7.1   | 7.8   | 8.1   | 8.4   | 8.2   |
| <b>Socio-economic statistics</b>                        |       |       |       |       |       |       |       |       |       |       |
| Gross Domestic Product (Mrd EUR 1990)                   | 41.6  | 54.3  | 63.1  | 65.6  |       | 89.9  | 106.2 | 113.4 | 119.4 |       |
| Population (Mio)  | 10.0  | 9.9   | 9.9   | 10.0  | 10.0* | 4.9   | 5.0   | 5.1   | 5.2   | 5.2*  |
| Industry added value (Mrd EUR)                          | 10.5  | 15.7  | 18.7  |       |       | 20.7  | 24.0  | 31.9  |       |       |
| Total imports (1) (Mrd EUR)                             | 11.2  | 22.4  | 36.5  | 40.7  | 43.9  | 21.8  | 30.5  | 35.9  | 38.8  | 40.9  |
| among which:  |       |       |       |       |       |       |       |       |       |       |
| All fuels   | 2.6   | 2.1   | 2.4   | 1.8   | 2.5   | 4.2   | 2.5   | 2.6   | 2.1   | 2.5   |
| Oil   | 2.4   | 1.9   | 1.9   | 1.5   | 2.0   | 3.5   | 1.8   | 1.8   | 1.4   | 1.9   |
| Motor vehicles in use (Mio)                             | 1.7   | 2.6   | 4.3   | 4.6   |       | 1.5   | 1.9   | 1.9   | 2.0   |       |
| <b>Indicators</b>                                       |       |       |       |       |       |       |       |       |       |       |
| <b>Energy dependency (in %)</b>                         |       |       |       |       |       |       |       |       |       |       |
| Net energy imports / Gross inland consumption + Bunkers | 75.2  | 87.4  | 86.1  | 85.8  | 89.9  | 59.2  | 62.1  | 56.2  | 54.5  | 51.7  |
| Net oil imports / Gross inland consumption + Bunkers    | 66.3  | 71.3  | 67.6  | 68.4  | 67.1  | 40.0  | 36.1  | 31.3  | 32.8  | 30.9  |
| <b>Energy intensity (kgoe / 1000 EUR)</b>               |       |       |       |       |       |       |       |       |       |       |
| Gross inland consumption / GDP                          | 297.2 | 308.2 | 331.5 | 339.3 |       | 297.2 | 268.1 | 287.1 | 277.2 |       |
| Final energy consumption / GDP                          | 229.4 | 203.7 | 233.3 | 234.2 |       | 210.2 | 200.6 | 204.3 | 202.0 |       |
| <b>Energy consumption per inhabitant (kgoe / cap)</b>   |       |       |       |       |       |       |       |       |       |       |
| Household consumption                                   | 246   | 231   | 268   | 266   | 278*  | 1 059 | 1 099 | 1 025 | 1 064 | 1019* |
| <b>Rate in value (in %)</b>                             |       |       |       |       |       |       |       |       |       |       |
| Fuel imports / Total imports                            | 23.7  | 9.5   | 6.6   | 4.5   | 5.8   | 19.4  | 8.2   | 7.3   | 5.5   | 6.1   |
| Oil imports / Fuel imports                              | 91.5  | 87.0  | 80.8  | 80.5  | 79.8  | 82.7  | 71.2  | 66.8  | 62.9  | 74.5  |
| <b>Indices (1990 = 100)</b>                             |       |       |       |       |       |       |       |       |       |       |
| <b>Socio-economic indices</b>                           |       |       |       |       |       |       |       |       |       |       |
| Gross Domestic Product                                  | 76.5  | 100   | 116.1 | 120.8 |       | 84.6  | 100   | 106.8 | 112.5 |       |
| Total imports at current prices                         | 49.7  | 100   | 162.6 | 181.3 | 195.8 | 71.4  | 100   | 117.6 | 127.1 | 134.2 |
| Fuel imports at current prices                          | 124.2 | 100   | 113.1 | 85.2  | 119.1 | 169.0 | 100   | 105.2 | 85.7  | 100.4 |
| <b>Energy indices</b>                                   |       |       |       |       |       |       |       |       |       |       |
| Primary energy production                               | 120.2 | 100   | 120.9 | 114.2 | 99.9  | 95.1  | 100   | 125.5 | 111.8 | 129.1 |
| Net energy imports                                      | 63.6  | 100   | 121.6 | 128.1 | 145.7 | 89.3  | 100   | 102.8 | 101.6 | 95.5  |
| Net oil imports   | 68.8  | 100   | 117.0 | 125.3 | 133.1 | 103.8 | 100   | 98.5  | 105.3 | 98.2  |
| Gross inland consumption                                | 73.8  | 100   | 124.9 | 133.0 | 143.2 | 93.8  | 100   | 114.4 | 116.3 | 115.0 |
| Final energy consumption                                | 86.2  | 100   | 133.0 | 138.9 | 144.3 | 88.7  | 100   | 108.8 | 113.3 | 115.4 |
| of which :  |       |       |       |       |       |       |       |       |       |       |
| Industry  | 92.4  | 100   | 126.7 | 131.3 | 131.8 | 91.3  | 100   | 117.3 | 123.7 | 129.9 |
| Transport   | 71.2  | 100   | 141.1 | 152.8 | 161.9 | 78.5  | 100   | 99.4  | 100.7 | 103.1 |
| Services & households etc.                              | 95.5  | 100   | 131.5 | 132.4 | 139.7 | 91.2  | 100   | 103.8 | 107.8 | 104.9 |
| <b>Transport indices</b>                                |       |       |       |       |       |       |       |       |       |       |
| Fuel consumption by road transport                      | 68.1  | 100   | 149.9 | 162.9 | 171.2 | 79.8  | 100   | 99.2  | 100.1 | 101.8 |
| Motor vehicles in use                                   | 66.7  | 100   | 167.4 | 179.7 |       | 79.7  | 100   | 100.5 | 104.2 |       |

(1) in current prices

Sverige

United Kingdom

| 1985   | 1990  | 1997  | 1998  | 1999   | 1985  | 1990  | 1997  | 1998  | 1999   |  |
|--|-------|-------|-------|--------|-------|-------|-------|-------|--------|--|
| <b>Statistiques énergétiques (Mio tep)</b>                             |       |       |       |        |       |       |       |       |        |  |
| 26.7   | 29.6  | 31.7  | 30.3  | 32.6   | 234.9 | 203.6 | 261.4 | 268.7 | 278.3  | Production d'énergie primaire  |
| 20.0   | 17.8  | 20.0  | 20.0  | 18.2   | -31.6 | 7.3   | -34.0 | -36.4 | -46.9  | Importations nettes d'énergie  |
| 17.0   | 15.1  | 17.0  | 18.0  | 16.1   | -49.6 | -9.0  | -47.6 | -50.3 | -56.6  | Importations nettes de pétrole   |
| 46.9   | 46.9  | 50.3  | 48.2  | 50.4   | 203.6 | 211.5 | 222.5 | 230.0 | 229.2  | Consommation intérieure brute  |
| 31.2   | 30.4  | 33.4  | 33.4  | 32.6   | 127.7 | 136.7 | 148.8 | 149.0 | 150.7  | Consommation finale d'énergie  |
| soit:  |       |       |       |        |       |       |       |       |        |  |
| 11.9   | 11.8  | 12.6  | 12.4  | 11.7   | 32.9  | 34.6  | 37.3  | 35.9  | 37.4   | Industrie  |
| 6.4  | 7.2   | 7.7   | 7.8   | 7.7    | 35.8  | 45.5  | 49.4  | 50.0  | 50.4   | Transport  |
| 12.9   | 11.4  | 13.1  | 13.1  | 13.2   | 59.0  | 56.7  | 62.0  | 63.0  | 63.0   | Services & ménages etc.  |
| <b>Statistiques socio-économiques</b>                                  |       |       |       |        |       |       |       |       |        |  |
| 161.5  | 180.8 | 190.8 | 196.3 |        | 650.6 | 763.1 | 861.1 | 880.9 |        | Produit Intérieur Brut (Mrd EUR 1990)  |
| 8.4  | 8.6   | 8.8   | 8.9   | 8.9*   | 56.7  | 57.6  | 59.0  | 59.1  | 58.1*  | Population (Mio)   |
| 38.2   | 41.0  | 49.3  |       |        | 185.9 | 209.5 | 239.8 |       |        | Valeur ajoutée de l'industrie (Mrd EUR)  |
| 41.7   | 53.4  | 72.4  | 80.3  | 84.3   | 147.9 | 207.6 | 283.4 | 305.6 | 319.9  | Importations totales (1) (Mrd EUR)   |
| dont:  |       |       |       |        |       |       |       |       |        |  |
| 7.1  | 3.9   | 4.5   | 2.8   | 3.9    | 18.0  | 10.7  | 9.4   | 7.0   | 8.0    | Tous combustibles  |
| 6.5  | 3.5   | 4.0   | 2.5   | 3.4    | 14.0  | 8.5   | 7.4   | 5.2   | 6.3    | Pétrole  |
| 3.2  | 3.6   | 3.7   | 3.8   |        | 17.7  | 21.5  | 23.5  | 23.9  |        | Parc automobile (Mio)  |
| <b>Indicateurs</b>   |       |       |       |        |       |       |       |       |        |  |
| 42.2   | 37.4  | 38.7  | 40.2  | 35.1   | -15.4 | 3.4   | -15.1 | -15.6 | -20.3  | <b>Dépendance énergétique (en %)</b>   |
| Importations nettes d'énergie / Consommation intérieure brute + Soutes |       |       |       |        |       |       |       |       |        |  |
| 35.8   | 31.7  | 32.9  | 36.1  | 31.0   | -24.1 | -4.2  | -21.1 | -21.6 | -24.5  | <b>Importations nettes de pétrole / Consommation intérieure brute + Soutes</b> |
| <b>Intensité énergétique (kgep / 1000 EUR)</b>                         |       |       |       |        |       |       |       |       |        |  |
| 290.6  | 259.6 | 263.9 | 245.7 |        | 312.9 | 277.2 | 258.4 | 261.1 |        | Consommation intérieure brute / PIB  |
| 193.0  | 168.3 | 175.3 | 170.0 |        | 196.3 | 179.2 | 172.8 | 169.1 |        | Consommation finale d'énergie / PIB  |
| <b>Consommation d'énergie par habitant (kgep / hab)</b>                |       |       |       |        |       |       |       |       |        |  |
| 5 622  | 5 485 | 5 691 | 5 449 | 5 699* | 3 592 | 3 675 | 3 771 | 3 889 | 3 943* | Consommation intérieure brute  |
| 1 156  | 799   | 929   | 921   | 898*   | 726   | 723   | 702   | 723   | 736*   | Consommation des ménages   |
| <b>Rapport en valeur (en %)</b>  |       |       |       |        |       |       |       |       |        |  |
| 17.0   | 7.3   | 6.2   | 3.5   | 4.6    | 12.2  | 5.2   | 3.3   | 2.3   | 2.5    | Import. combustibles / Total importations                                      |
| 91.2   | 88.8  | 90.8  | 88.4  | 88.4   | 77.9  | 79.3  | 79.6  | 74.9  | 79.1   | Importations pétrole / Import. combustibles                                    |
| <b>Indices (1990 = 100)</b>  |       |       |       |        |       |       |       |       |        |  |
| 89.3   | 100   | 105.5 | 108.6 |        | 85.3  | 100   | 112.8 | 115.4 |        | <b>Indices socio-économiques</b>   |
| 78.0   | 100   | 135.5 | 150.4 | 157.7  | 71.2  | 100   | 136.5 | 147.2 | 154.1  | Produit Intérieur Brut   |
| 181.0  | 100   | 113.8 | 71.6  | 98.5   | 167.4 | 100   | 87.1  | 64.9  | 74.1   | Importations totales à prix courant  |
|  |       |       |       |        |       |       |       |       |        | Importations de combustibles à prix courant                                    |
| 90.3   | 100   | 107.2 | 102.4 | 110.0  | 115.3 | 100   | 128.4 | 132.0 | 136.7  | <b>Indices de l'énergie</b>  |
| 112.4  | 100   | 112.1 | 112.3 | 102.3  | -     | -     | -     | -     | -      | Production d'énergie primaire  |
| 112.5  | 100   | 112.6 | 118.8 | 106.6  | 552.1 | 100   | 530.0 | 559.3 | 630.2  | Importations nettes d'énergie  |
| 100.0  | 100   | 107.2 | 102.7 | 107.4  | 96.2  | 100   | 105.2 | 108.7 | 108.4  | Importations nettes de pétrole   |
| 102.4  | 100   | 109.9 | 109.6 | 107.0  | 93.4  | 100   | 108.8 | 109.0 | 110.2  | Consommation intérieure brute  |
|  |       |       |       |        |       |       |       |       |        | Consommation finale d'énergie  |
| soit:  |       |       |       |        |       |       |       |       |        |  |
| 100.3  | 100   | 107.0 | 105.2 | 98.6   | 95.0  | 100   | 107.9 | 103.9 | 108.1  | Industrie  |
| 88.9   | 100   | 106.3 | 107.5 | 107.0  | 78.8  | 100   | 108.8 | 110.1 | 110.8  | Transport  |
| 113.1  | 100   | 115.2 | 115.6 | 115.9  | 104.1 | 100   | 109.4 | 111.2 | 111.1  | Services & ménages etc.  |
| <b>Indices des transports</b>  |       |       |       |        |       |       |       |       |        |  |
| 88.4   | 100   | 105.8 | 107.2 | 105.5  | 78.8  | 100   | 106.1 | 105.4 | 104.5  | Consom. de carburant du transport routier                                      |
| 87.5   | 100   | 102.8 | 105.3 |        | 82.6  | 100   | 109.1 | 111.2 |        | Parc automobile  |

(1) à prix courant

1999

|   | PRODUCTION |       | RESERVES (1)                   |       | $\left(\frac{\text{RESERVES}}{\text{PRODUCTION}}\right)$ (2) |                                      |
|---|------------|-------|--------------------------------|-------|--|--------------------------------------|
|   | Mio t      | %     | Mio t                          | %     |  |                                      |
| <b>HARD COAL / HOUILLE*</b>               |            |       |                                |       |  |                                      |
| EUROPE                                    | 550        | 15.8  | 139140                         | 27.3  | 253  | EUROPE                               |
| <i>among which</i> : EU-15                | 108        | 3.1   | 25295                          | 5.0   | 234  | <i>dont</i> : EU-15                  |
| CIS                                       | 305        | 8.7   | 97476                          | 19.1  | 320  | CEI                                  |
| Eastern Europe                            | 134        | 3.8   | 16369                          | 3.2   | 122  | Europe de l'Est                      |
| AFRICA                                    | 204        | 5.8   | 61162                          | 12.0  | 300  | AFRIQUE                              |
| <i>among which</i> : Rep. of South Africa | 198        | 5.7   | 55333                          | 10.9  | 279  | <i>dont</i> : Rep. d' Afrique du Sud |
| AMERICA                                   | 908        | 26.0  | 124546                         | 24.4  | 137  | AMERIQUE                             |
| <i>among which</i> : United States        | 870        | 24.9  | 111338                         | 21.9  | 128  | <i>dont</i> : Etats-Unis             |
| Canada                                    | 31         | 0.9   | 4509                           | 0.9   | 145  | Canada                               |
| ASIA                                      | 1 617      | 46.3  | 137343                         | 27.0  | 85   | ASIE                                 |
| <i>among which</i> : China                | 1 223      | 35.0  | 62200                          | 12.2  | 51   | <i>dont</i> : Chine                  |
| India                                     | 270        | 7.7   | 72733                          | 14.3  | 269  | Inde                                 |
| OCEANIA                                   | 211        | 6.0   | 47300                          | 9.3   | 224  | OCEANIE                              |
| <i>among which</i> : Australia            | 197        | 5.6   | 47300                          | 9.3   | 240  | <i>dont</i> : Australie              |
| WORLD                                     | 3 490      | 100.0 | 509491                         | 100.0 | 146  | MONDE                                |
| <b>CRUDE OIL / PETROLE BRUT</b>           |            |       |                                |       |  |                                      |
| EUROPE                                    | 699        | 20.1  | 11700                          | 8.3   | 17   | EUROPE                               |
| <i>among which</i> : EU-15                | 165        | 4.7   | 800                            | 0.6   | 5  | <i>dont</i> : EU-15                  |
| CIS                                       | 370        | 10.6  | 8900                           | 6.3   | 24   | CEI                                  |
| AFRICA                                    | 365        | 10.5  | 10200                          | 7.2   | 28   | AFRIQUE                              |
| <i>among which</i> : Libya                | 68         | 2.0   | 4000                           | 2.8   | 59   | <i>dont</i> : Libye                  |
| Nigeria                                   | 107        | 3.1   | 3000                           | 2.1   | 28   | Nigeria                              |
| AMERICA                                   | 983        | 28.2  | 20800                          | 14.8  | 21   | AMERIQUE                             |
| <i>among which</i> : United States        | 353        | 10.1  | 3900                           | 2.8   | 11   | <i>dont</i> : Etats-Unis             |
| Mexico                                    | 166        | 4.8   | 3900                           | 2.8   | 23   | Mexique                              |
| Venezuela                                 | 163        | 4.7   | 9900                           | 7.0   | 61   | Venezuela                            |
| NEAR AND MIDDLE EAST                      | 1 046      | 30.0  | 91800                          | 65.2  | 88   | PROCHE ET MOYEN-ORIENT               |
| <i>among which</i> : Saudi Arabia         | 410        | 11.8  | 35800                          | 25.4  | 87   | <i>dont</i> : Arabie Saoudite        |
| Iran                                      | 175        | 5.0   | 12200                          | 8.7   | 70   | Iran                                 |
| FAR EAST                                  | 363        | 10.4  | 6000                           | 4.3   | 17   | EXTREME-ORIENT                       |
| OCEANIA                                   | 25         | 0.7   | 200                            | 0.1   | 8  | OCEANIE                              |
| WORLD                                     | 3 481      | 100.0 | 140700                         | 100.0 | 40   | MONDE                                |
| <b>NATURAL GAS / GAZ NATUREL</b>          |            |       |                                |       |  |                                      |
|   |            | %     | 10 <sup>9</sup> m <sup>3</sup> | %     |  |                                      |
| EUROPE                                    | 937        | 39.8  | 61850                          | 42.0  | 66   | EUROPE                               |
| <i>among which</i> : EU-15                | 201        | 8.5   | 3200                           | 2.2   | 16   | <i>dont</i> : EU-15                  |
| CIS                                       | 656        | 27.9  | 56700                          | 38.5  | 86   | CEI                                  |
| AFRICA                                    | 117        | 5.0   | 11160                          | 7.6   | 95   | AFRIQUE                              |
| <i>among which</i> : Algeria              | 85         | 3.6   | 4520                           | 3.1   | 53   | <i>dont</i> : Algérie                |
| AMERICA                                   | 825        | 35.0  | 13620                          | 9.2   | 17   | AMERIQUE                             |
| <i>among which</i> : United States        | 536        | 22.8  | 4650                           | 3.2   | 9  | <i>dont</i> : Etats-Unis             |
| Mexico                                    | 37         | 1.6   | 850                            | 0.6   | 23   | Mexique                              |
| NEAR AND MIDDLE EAST                      | 192        | 8.2   | 49520                          | 33.6  | 258  | PROCHE ET MOYEN-ORIENT               |
| <i>among which</i> : Iran                 | 53         | 2.3   | 23000                          | 15.6  | 434  | <i>dont</i> : Iran                   |
| FAR EAST                                  | 253        | 10.7  | 10280                          | 7.0   | 41   | EXTREME-ORIENT                       |
| OCEANIA                                   | 30         | 1.3   | 1000                           | 0.7   | 33   | OCEANIE                              |
| WORLD                                     | 2 354      | 100.0 | 147430                         | 100.0 | 63   | MONDE                                |

(1) Proven and economically exploitable at end of 1999 given current state of technology.

(2) Years of production remaining at 1999 rate of production.

(1) Prouvées et économiquement exploitables fin 1999 dans l'état actuel de la technologie.

(2) Années de production au rythme d'extraction de 1999.

# 2

WICHTIGSTE POSITIONEN NACH ERZEUGNISSEN  
PRINCIPAL AGGREGATES BY PRODUCT  
PRINCIPAUX AGREGATS PAR PRODUIT

**"Final energy" Balance**  
**Principal aggregates by product**

EU-15

Belgique/België

| <i>in 1000 toe</i>              | 1985    | 1990    | 1997    | 1998     | 1999     | 1985  | 1990  | 1997  | 1998  | 1999  |
|---------------------------------|---------|---------|---------|----------|----------|-------|-------|-------|-------|-------|
| <b>BALANCE</b>                  |         |         |         |          |          |       |       |       |       |       |
| <b>Primary production</b>       |         |         |         |          |          |       |       |       |       |       |
| Total                           | 733560  | 705699  | 759088  | 750255   | 766393*  | 13167 | 11970 | 12642 | 12112 | 13350 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Hard coal                       | 133615  | 118386  | 73820   | 66362    | 60890    | 3974  | 605   | -     | -     | -     |
|                                 |         |         |         | 47216    | 47525    | -     | -     | -     | -     | -     |
| Crude oil                       | 149990  | 117098  | 157544  | 161147   | 167454   | -     | -     | -     | -     | -     |
| Natural gas                     | 131874  | 132871  | 182122  | 181466   | 185468   | 34    | 9     | -     | -     | -     |
| Nuclear heat                    | 147377  | 181438  | 212614  | 209663   | 220501   | 8703  | 10706 | 11957 | 11394 | 12644 |
| Hydro-electricity               | 24400   | 22274   | 25452   | 26263    | 26202    | 24    | 22    | 26    | 33    | 29    |
| Biomass                         | 40738   | 40972   | 52200   | 53612    | 53735*   | 429   | 623   | 654   | 681   | 673   |
| <b>Imports</b>                  |         |         |         |          |          |       |       |       |       |       |
| Total                           | 815306  | 934775  | 1039858 | 1078125  | 1069149  | 46682 | 59543 | 69336 | 72518 | 70550 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Hard coal                       | 84243   | 94512   | 97974   | 102732   | 100195   | 6235  | 9913  | 8957  | 8843  | 7585  |
| Crude oil and feedstocks        | 431583  | 504248  | 561956  | 584878   | 553179   | 20520 | 28442 | 34752 | 36055 | 34147 |
| Petroleum products              | 181446  | 194618  | 194503  | 199524   | 203271   | 11535 | 11908 | 13079 | 13771 | 13835 |
| Natural gas                     | 98896   | 120293  | 163241  | 168328   | 188675   | 7286  | 8217  | 11280 | 12431 | 13483 |
| Electricity                     | 8367    | 13265   | 14789   | 14482    | 16737    | 472   | 411   | 857   | 673   | 778   |
| <b>Exports</b>                  |         |         |         |          |          |       |       |       |       |       |
| Total                           | 288588  | 291012  | 347151  | 354450   | 363641   | 14708 | 20686 | 22271 | 22535 | 23745 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Crude oil and feedstocks        | 87871   | 67501   | 96763   | 100939   | 111614   | 167   | 2326  | 2890  | 2589  | 3120  |
| Petroleum products              | 142870  | 170509  | 190308  | 193875   | 187847   | 12763 | 16555 | 17531 | 18347 | 18949 |
| <b>Gross inland consumption</b> |         |         |         |          |          |       |       |       |       |       |
| Total                           | 1241925 | 1319239 | 1410319 | 1436907  | 1442433* | 43848 | 47264 | 55118 | 56209 | 56843 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Hard coal and equivalents (1)   | 213262  | 210072  | 171637  | 173446   | 162205   | 9802  | 10169 | 8314  | 8396  | 7334  |
| Crude oil and equivalents (1)   | 511427  | 545794  | 587652  | 601417   | 595312   | 17349 | 17729 | 22463 | 22945 | 22526 |
|                                 |         |         |         | 315499   | 328301   | 7328  | 8169  | 11264 | 12474 | 13340 |
| <b>Transformation input</b>     |         |         |         |          |          |       |       |       |       |       |
| Total                           | 1057512 | 1154812 | 1214200 | 1238398* | 1214798* | 40882 | 52431 | 58480 | 60011 | 58343 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Hard coal                       | 175145  | 179881  | 142170  | 147129   | 137064   | 8262  | 8884  | 6137  | 5844  | 4945  |
| Lignite and peat                | 93125   | 82947   | 49653   | 47888    | 45904    | -     | -     | -     | -     | -     |
| Crude oil and feedstocks        | 531104  | 593670  | 666697  | 684757   | 652885   | 20544 | 29036 | 35749 | 37173 | 35002 |
| Petroleum products              | 43746   | 45561   | 40894   | 40860*   | 39618    | 818   | 318   | 255   | 393   | 181   |
| <b>Transformation output</b>    |         |         |         |          |          |       |       |       |       |       |
| Total                           | 795028  | 862536  | 917670  | 937068*  | 902483*  | 31774 | 40857 | 46180 | 47689 | 45808 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Petroleum products              | 525627  | 589768  | 661867  | 678578   | 644024   | 20439 | 28822 | 35512 | 36896 | 34672 |
| Electricity                     | 139132  | 161616  | 180830  | 185266   | 188174   | 4812  | 6013  | 6673  | 7027  | 7138  |
| <b>Final energy consumption</b> |         |         |         |          |          |       |       |       |       |       |
| Total                           | 823856  | 863261  | 931831  | 946446*  | 954846*  | 29582 | 31299 | 36926 | 37320 | 37308 |
| <i>among which:</i>             |         |         |         |          |          |       |       |       |       |       |
| Petroleum products              | 373757  | 397615  | 430942  | 438062   | 438915   | 13459 | 14756 | 17848 | 17932 | 17447 |
| Natural gas                     | 145613  | 164731  | 207344  | 213760   | 220562   | 6074  | 6400  | 8238  | 8650  | 8870  |
| Electricity                     | 136313  | 155971  | 177046  | 181432   | 185105   | 4163  | 4985  | 6175  | 6359  | 6406  |
| Industry                        | 264891  | 266006  | 263440  | 262122*  | 263456*  | 10925 | 11888 | 12972 | 13007 | 13533 |
| Residual fuel-oil               | 32953   | 26281   | 19087   | 17643    | 16704    | 1423  | 1218  | 705   | 711   | 835   |
| Natural gas                     | 53910   | 65961   | 77938   | 80440    | 83858    | 2091  | 2882  | 3579  | 3756  | 4103  |
| Electricity                     | 61868   | 69287   | 74263   | 75969    | 77002    | 2209  | 2624  | 3131  | 3215  | 3235  |
| Transport                       | 202621  | 253843  | 288855  | 299529   | 305827   | 6136  | 7703  | 9193  | 9573  | 9574  |
| Motor spirit                    | 105880  | 122317  | 122587  | 122989   | 122164   | 2631  | 2869  | 2666  | 2642  | 2518  |
| Diesel oil                      | 68742   | 95991   | 121043  | 127748   | 132811   | 2743  | 3713  | 4744  | 4902  | 5123  |
|                                 |         |         |         | 384794*  | 385563*  | 12520 | 11706 | 14760 | 14739 | 14200 |
| Gas oil                         | 95856   | 79741   | 83431   | 82548    | 77465    | 4654  | 4486  | 5627  | 5552  | 5149  |
| Natural gas                     | 91462   | 98562   | 129107  | 133027   | 136404   | 3983  | 3518  | 4658  | 4894  | 4766  |
| Heat                            | 12380   | 12570   | 16348   | 16983*   | 17051*   | 32    | 25    | 29    | 42    | 50    |
| Electricity                     | 71056   | 82679   | 97896   | 100591   | 103252   | 1851  | 2253  | 2935  | 3026  | 3049  |

(1) Includes net imports and stock changes of derived products.



# "Endenergiebilanz" Hauptaggregate nach Erzeugnissen

Danmark

Deutschland

| 1985                                      | 1990  | 1997  | 1998  | 1999  | 1985   | 1990   | 1997   | 1998    | 1999    | in 1000 t RÖE                     |
|---|-------|-------|-------|-------|--------|--------|--------|---------|---------|-----------------------------------|
| <b>BILANZ</b>                             |       |       |       |       |        |        |        |         |         |                                   |
| <b>Erzeugung von Primärenergieträgern</b> |       |       |       |       |        |        |        |         |         |                                   |
| 4850                                      | 9944  | 20265 | 20196 | 23549 | 209350 | 185828 | 138160 | 131740  | 134575  | Insgesamt                         |
| -   | -     | -     | -     | -     | 58315  | 49898  | 33231  | 30633   | 28452   | davon :                           |
| -   | -     | -     | -     | -     | 90008  | 75142  | 37405  | 35056   | 34053   | Steinkohle                        |
| 2916                                      | 6058  | 11589 | 11660 | 14762 | 4195   | 3678   | 2835   | 2963    | 2777    | Braunkohle und Torf               |
| 969                                       | 2735  | 6958  | 6763  | 6939  | 16301  | 13730  | 16078  | 15670   | 16707   | Rohöl                             |
| -   | -     | -     | -     | -     | 34865  | 37673  | 41113  | 38912   | 43853   | Naturgas                          |
| 2   | 2     | 1     | 2     | 2     | 1353   | 1384   | 1492   | 1510    | 1689    | Wärme aus Kernkraftwerken         |
| 955                                       | 1092  | 1541  | 1518  | 1575  | 4299   | 4299   | 5663   | 6505    | 6478    | Hydro-Elektrizität                |
|   |       |       |       |       |        |        |        |         |         | Biomasse                          |
| <b>Einfuhr</b>                            |       |       |       |       |        |        |        |         |         |                                   |
| 19521                                     | 15907 | 19402 | 16726 | 15562 | 183338 | 191769 | 231827 | 236371  | 228740  | Insgesamt                         |
| 7670                                      | 6248  | 8032  | 4811  | 4268  | 9766   | 8540   | 12616  | 14013   | 14032   | davon :                           |
| 5112                                      | 4840  | 4476  | 4871  | 4867  | 84087  | 88511  | 101680 | 110489  | 105130  | Steinkohle                        |
| 6392                                      | 3764  | 6533  | 6729  | 5917  | 48420  | 46317  | 49980  | 45362   | 41030   | Rohöl und Feedstocks              |
| -   | -     | -     | -     | -     | 35465  | 42787  | 61161  | 59333   | 61591   | Mineralölprodukte                 |
| 271                                       | 1029  | 326   | 282   | 449   | 1957   | 2743   | 3268   | 3294    | 3490    | Naturgas                          |
|   |       |       |       |       |        |        |        |         |         | Elektrizität                      |
| <b>Ausfuhr</b>                            |       |       |       |       |        |        |        |         |         |                                   |
| 3990                                      | 6830  | 15198 | 14900 | 18504 | 30506  | 26489  | 23477  | 23629   | 26455   | Insgesamt                         |
| 1086                                      | 2807  | 7212  | 8489  | 11251 | 1      | -      | 3623   | 1403    | 1761    | davon :                           |
| 2232                                      | 2634  | 4192  | 3149  | 3931  | 14271  | 14696  | 12503  | 15011   | 16602   | Rohöl und Feedstocks              |
|   |       |       |       |       |        |        |        |         |         | Mineralölprodukte                 |
| <b>Bruttoinlandsverbrauch</b>             |       |       |       |       |        |        |        |         |         |                                   |
| 19604                                     | 18204 | 21594 | 21143 | 20370 | 359339 | 354506 | 345240 | 344621  | 339411  | Insgesamt                         |
| 7358                                      | 6107  | 6654  | 5641  | 4635  | 59922  | 54989  | 48769  | 49931   | 46089   | davon :                           |
| 10652                                     | 8552  | 9982  | 9875  | 9634  | 120548 | 124047 | 137072 | 137660  | 132933  | Steinkohle und Aquivalente (1)    |
| 566                                       | 1785  | 3861  | 4223  | 4424  | 49577  | 55004  | 71948  | 72728   | 71995   | Rohöl und Aquivalente (1)         |
|   |       |       |       |       |        |        |        |         |         | Naturgas                          |
| <b>Umwandlungseinsatz</b>                 |       |       |       |       |        |        |        |         |         |                                   |
| 14458                                     | 14871 | 19403 | 17809 | 17440 | 309022 | 294987 | 256321 | 259645* | 257750* | Insgesamt                         |
| 6493                                      | 5547  | 6295  | 5286  | 4423  | 53483  | 49734  | 39949  | 41691   | 38021   | davon :                           |
| -   | -     | -     | -     | -     | 80534  | 70149  | 36795  | 34981   | 34115   | Steinkohle                        |
| 7044                                      | 8010  | 8801  | 7985  | 8308  | 108595 | 105733 | 114225 | 120299  | 118487  | Braunkohle und Torf               |
| 366                                       | 252   | 1687  | 1547  | 1480  | 4006   | 4812   | 2449   | 2246    | 2104    | Rohöl und Feedstocks              |
|   |       |       |       |       |        |        |        |         |         | Mineralölprodukte                 |
| <b>Umwandlungsausstoß</b>                 |       |       |       |       |        |        |        |         |         |                                   |
| 10611                                     | 12653 | 15524 | 14298 | 14276 | 225942 | 212192 | 184721 | 189737* | 185600* | Insgesamt                         |
| 6999                                      | 7936  | 8895  | 7955  | 8275  | 107307 | 106542 | 112404 | 118474  | 116483  | davon :                           |
| 2490                                      | 2158  | 3641  | 3289  | 3078  | 43264  | 45584  | 45368  | 45620   | 45258   | Mineralölprodukte                 |
|   |       |       |       |       |        |        |        |         |         | Elektrizität                      |
| <b>Energetischer Endverbrauch</b>         |       |       |       |       |        |        |        |         |         |                                   |
| 14404                                     | 14336 | 15248 | 15207 | 15142 | 233911 | 227287 | 224004 | 223898* | 221326* | Insgesamt                         |
| 9602                                      | 7588  | 7541  | 7479  | 7526  | 94666  | 96809  | 105383 | 104585  | 101139  | davon :                           |
| 422                                       | 1094  | 1784  | 1701  | 1724  | 34261  | 36808  | 49658  | 50968   | 52979   | Mineralölprodukte                 |
| 2180                                      | 2516  | 2741  | 2760  | 2757  | 36511  | 38391  | 39704  | 40109   | 40196   | Naturgas                          |
| 2906                                      | 2877  | 3130  | 3051  | 2991  | 78858  | 71515  | 58393  | 57642*  | 56439*  | Elektrizität                      |
| 752                                       | 431   | 276   | 278   | 208   | 4963   | 4179   | 2812   | 2645    | 2243    | Industrie                         |
| 124                                       | 523   | 834   | 797   | 811   | 16002  | 17046  | 17769  | 18036   | 18564   | Rückstandsheizöle                 |
| 646                                       | 750   | 856   | 856   | 850   | 17384  | 17869  | 17738  | 17909   | 17720   | Naturgas                          |
| 3633                                      | 4499  | 4781  | 4778  | 4891  | 47994  | 58816  | 63698  | 64779   | 66797   | Elektrizität                      |
| 1570                                      | 1679  | 2077  | 2118  | 2110  | 27260  | 32634  | 31557  | 31611   | 31580   | Verkehr                           |
| 1348                                      | 2009  | 1838  | 1764  | 1827  | 15282  | 19358  | 24215  | 25090   | 26784   | Motorenbenzin                     |
| 7864                                      | 6959  | 7336  | 7377  | 7259  | 107058 | 96955  | 101911 | 101475* | 98089*  | Dieselmotoren                     |
| 3188                                      | 1757  | 1813  | 1781  | 1747  | 36270  | 29502  | 34229  | 32946   | 28221   | Dienstleistungen & Haushalte usw. |
| 298                                       | 571   | 950   | 904   | 912   | 18258  | 19761  | 31889  | 32932   | 34415   | Heizöle                           |
| 827                                       | 2024  | 2127  | 2273  | 2184  | 7178   | 6741   | 7065   | 7065*   | 7065*   | Naturgas                          |
| 1521                                      | 1747  | 1861  | 1875  | 1877  | 17996  | 19346  | 20516  | 20816   | 21114   | Abgeleitete Wärme                 |
|   |       |       |       |       |        |        |        |         |         | Elektrizität                      |

(1) einschließlich Außenhandelsaldo u. Bestandsveränderungen abgeleiteter Erzeugnisse

**"Final energy" Balance**  
**Principal aggregates by product**

Ellada

España

| <i>in 1000 toe</i>              | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997   | 1998   | 1999   |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <b>BALANCE</b>                  |       |       |       |       |       |       |       |        |        |        |
| <b>Primary production</b>       |       |       |       |       |       |       |       |        |        |        |
| Total                           | 7336  | 9151  | 9948  | 10064 | 9491  | 30241 | 33353 | 30855  | 31459  | 30304  |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Hard coal                       | -     | -     | -     | 8352  | 8003  | 8950  | 8936  | 8446   | 7659   | 7004   |
| Crude oil                       | 1309  | 832   | 466   | 316   | 16    | 4990  | 2687  | 1425   | 1641   | 1561   |
| Natural gas                     | 71    | 137   | 44    | 40    | 2     | 2165  | 794   | 369    | 524    | 297    |
| Nuclear heat                    | -     | -     | -     | -     | -     | 7375  | 13701 | 13510  | 14417  | 15181  |
| Hydro-electricity               | 241   | 152   | 333   | 319   | 416   | 2688  | 2184  | 2988   | 2923   | 1965   |
| Biomass                         | 835   | 875   | 911   | 907   | 912   | 3821  | 3751  | 3859   | 3972   | 3894   |
| <b>Imports</b>                  |       |       |       |       |       |       |       |        |        |        |
| Total                           | 16478 | 22875 | 23094 | 24441 | 23688 | 56818 | 72077 | 88388  | 96994  | 102062 |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Hard coal                       | 1341  | 966   | 789   | 892   | 782   | 5025  | 6799  | 7042   | 9038   | 12060  |
| Crude oil and feedstocks        | 11285 | 15946 | 18609 | 19278 | 17345 | 43948 | 53252 | 56370  | 60183  | 58543  |
| Petroleum products              | 3733  | 5826  | 3294  | 3362  | 4187  | 5162  | 7792  | 12923  | 14881  | 16446  |
| Natural gas                     | -     | -     | 129   | 690   | 1216  | 2137  | 3689  | 11540  | 12057  | 13902  |
| Electricity                     | 81    | 114   | 258   | 214   | 155   | 337   | 275   | 395    | 770    | 1028   |
| <b>Exports</b>                  |       |       |       |       |       |       |       |        |        |        |
| Total                           | 4670  | 7502  | 3900  | 3336  | 3945  | 10450 | 12225 | 8158   | 9446   | 7652   |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Crude oil and feedstocks        | 750   | 1236  | 213   | -     | 116   | -     | -     | -      | -      | -      |
| Petroleum products              | 3751  | 6213  | 3586  | 3213  | 3636  | 10013 | 11882 | 7385   | 8660   | 6855   |
| <b>Gross inland consumption</b> |       |       |       |       |       |       |       |        |        |        |
| Total                           | 18337 | 22244 | 25607 | 26899 | 26785 | 73912 | 89080 | 106101 | 111108 | 117468 |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Hard coal and equivalents (1)   | 1188  | 992   | 763   | 833   | 671   | 14522 | 16091 | 17092  | 16131  | 18518  |
| Crude oil and equivalents (1)   | 11014 | 12849 | 15058 | 15525 | 15560 | 38268 | 45542 | 56086  | 59900  | 62208  |
|                                 |       |       |       | 725   | 1217  | 2351  | 4970  | 11308  | 11609  | 13289  |
| <b>Transformation input</b>     |       |       |       |       |       |       |       |        |        |        |
| Total                           | 18655 | 25412 | 36903 | 31542 | 29057 | 73354 | 88210 | 95704  | 100588 | 105468 |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Hard coal                       | 190   | -     | 64    | 10    | 3     | 11640 | 14182 | 16448  | 15647  | 18313  |
| Lignite and peat                | 4664  | 6949  | 7977  | 8040  | 7248  | 4619  | 2721  | 1475   | 1744   | 1510   |
| Crude oil and feedstocks        | 12152 | 16616 | 20805 | 21220 | 19061 | 45543 | 53748 | 57332  | 61818  | 60949  |
| Petroleum products              | 1648  | 1814  | 1984  | 1918  | 1876  | 2238  | 2225  | 2789   | 3425   | 5144   |
| <b>Transformation output</b>    |       |       |       |       |       |       |       |        |        |        |
| Total                           | 14260 | 19434 | 24160 | 24811 | 22877 | 57281 | 67435 | 72879  | 77651  | 78573  |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Petroleum products              | 12043 | 16510 | 20714 | 21129 | 18977 | 44994 | 52896 | 56815  | 61200  | 60501  |
| Electricity                     | 2144  | 2837  | 3385  | 3645  | 3838  | 8110  | 10795 | 13201  | 13578  | 15551  |
| <b>Final energy consumption</b> |       |       |       |       |       |       |       |        |        |        |
| Total                           | 12520 | 14534 | 17281 | 18184 | 18183 | 47522 | 56524 | 67680  | 71672  | 74297  |
| <i>among which:</i>             |       |       |       |       |       |       |       |        |        |        |
| Petroleum products              | 8294  | 10049 | 12022 | 12668 | 12634 | 28018 | 33571 | 40454  | 42962  | 43852  |
| Natural gas                     | -     | -     | 33    | 142   | 201   | 1364  | 3950  | 7743   | 8703   | 9740   |
| Electricity                     | 2049  | 2447  | 3187  | 3380  | 3514  | 8841  | 10816 | 13671  | 14270  | 15240  |
| Industry                        | 3735  | 3934  | 4339  | 4420  | 4153  | 18835 | 19750 | 21592  | 22459  | 22369  |
| Residual fuel-oil               | 1094  | 1100  | 998   | 886   | 734   | 4952  | 3497  | 2483   | 2418   | 1778   |
| Natural gas                     | -     | -     | 33    | 128   | 190   | 1184  | 3367  | 6075   | 6741   | 7368   |
| Electricity                     | 946   | 1041  | 1058  | 1109  | 1109  | 4870  | 5441  | 5917   | 6141   | 6573   |
| Transport                       | 4675  | 5816  | 6725  | 7292  | 7453  | 15061 | 22326 | 28010  | 30458  | 31890  |
| Motor spirit                    | 1832  | 2502  | 3137  | 3264  | 3326  | 6183  | 8571  | 9437   | 9477   | 9393   |
| Diesel oil                      | 1503  | 1779  | 2030  | 2268  | 2239  | 6225  | 10572 | 14245  | 16382  | 17680  |
|                                 |       |       |       | 6471  | 6576  | 13624 | 14447 | 18077  | 18754  | 20037  |
| Gas oil                         | 1851  | 2317  | 2991  | 3115  | 3086  | 4462  | 3181  | 4334   | 4057   | 4349   |
| Natural gas                     | -     | -     | -     | 13    | 11    | 179   | 582   | 1662   | 1955   | 2361   |
| Heat                            | -     | -     | -     | -     | 26    | -     | -     | -      | -      | -      |
| Electricity                     | 1099  | 1396  | 2115  | 2255  | 2388  | 3729  | 5060  | 7444   | 7807   | 8360   |

(1) Includes net imports and stock changes of derived products.

# Bilan "Energie finale" Principaux agrégats par produit

France

Ireland

| 1985                                   | 1990   | 1997   | 1998   | 1999    | 1985 | 1990  | 1997  | 1998  | 1999  | en 1000 tep                     |
|--|--------|--------|--------|---------|------|-------|-------|-------|-------|---------------------------------|
| <b>BILAN</b>                           |        |        |        |         |      |       |       |       |       |                                 |
| <b>Production primaire</b>             |        |        |        |         |      |       |       |       |       |                                 |
| 91071                                  | 108068 | 123849 | 120629 | 122172  | 2862 | 3495  | 2843  | 2478  | 2611  | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 9113                                   | 6512   | 3464   | 2914   | 2716    | 28   | 22    | -     | -     | -     | Houille                         |
| 616                                    | 845    | 429    | 307    | 233     | 735  | 1410  | 739   | 812   | 1250  | Lignite et tourbe               |
| 2654                                   | 3051   | 2153   | 1980   | 1805    | -    | -     | -     | -     | -     | Pétrole brut                    |
| 4537                                   | 2420   | 2127   | 1837   | 1670    | 1943 | 1893  | 1906  | 1406  | 1103  | Gaz naturel                     |
| 57272                                  | 79131  | 98766  | 96635  | 98193   | -    | -     | -     | -     | -     | Chaleur nucléaire               |
| 5377                                   | 4636   | 5398   | 5387   | 6262    | 71   | 59    | 58    | 78    | 72    | Hydroélectricité                |
| 10761                                  | 10955  | 11097  | 11366  | 11152   | 83   | 107   | 135   | 165   | 167   | Biomasse                        |
| <b>Importations</b>                    |        |        |        |         |      |       |       |       |       |                                 |
| 127227                                 | 139626 | 149418 | 159163 | 157457  | 5934 | 7779  | 10820 | 11886 | 12809 | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 12025                                  | 12819  | 9097   | 12321  | 11697   | 1274 | 2081  | 1942  | 1809  | 1508  | Houille                         |
| 76091                                  | 76304  | 89198  | 91389  | 82618   | 1356 | 2017  | 2916  | 3154  | 2859  | Pétrole brut et feedstocks      |
| 16727                                  | 24692  | 19244  | 23115  | 26414   | 3292 | 3660  | 5067  | 5488  | 6500  | Produits pétroliers             |
| 20183                                  | 24370  | 30512  | 30833  | 35462   | -    | -     | 865   | 1395  | 1893  | Gaz naturel                     |
| 474                                    | 573    | 364    | 394    | 426     | -    | -     | 5     | 13    | 24    | Electricité                     |
| <b>Exportations</b>                    |        |        |        |         |      |       |       |       |       |                                 |
| 15496                                  | 19872  | 27346  | 27608  | 26185   | 611  | 697   | 1333  | 1262  | 1111  | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 110                                    | 303    | 1249   | 1411   | 1364    | 104  | -     | -     | -     | -     | Pétrole brut et feedstocks      |
| 11629                                  | 14141  | 18527  | 19775  | 17933   | 482  | 674   | 1316  | 1242  | 1095  | Produits pétroliers             |
| <b>Consommation intérieure brute</b>   |        |        |        |         |      |       |       |       |       |                                 |
| 203990                                 | 223189 | 243147 | 250685 | 249914  | 8830 | 10251 | 12246 | 13040 | 13903 | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 23476                                  | 19205  | 14049  | 16708  | 14906   | 1057 | 2182  | 1787  | 1823  | 1580  | Houille et équivalents (1)      |
| 83898                                  | 87667  | 87444  | 91538  | 89945   | 4145 | 4654  | 6411  | 7124  | 8092  | Pétrole brut et équivalents (1) |
| 24194                                  | 24613  | 31338  | 33413  | 34481   | 1946 | 1893  | 2771  | 2802  | 2997  | Gaz naturel                     |
| <b>Entrées en transformation</b>       |        |        |        |         |      |       |       |       |       |                                 |
| 162068                                 | 179634 | 207065 | 212025 | 203695  | 4296 | 4871  | 7324  | 7814  | 7733  | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 17514                                  | 13445  | 9533   | 12268  | 11048   | 52   | 1253  | 1449  | 1472  | 1285  | Houille                         |
| 769                                    | 616    | 406    | 508    | 430     | 1035 | 704   | 743   | 691   | 743   | Lignite et tourbe               |
| 80387                                  | 79628  | 92167  | 95539  | 86803   | 1340 | 1742  | 2928  | 3183  | 2805  | Pétrole brut et feedstocks      |
| 1282                                   | 2041   | 1270   | 1944   | 1783    | 545  | 330   | 792   | 1088  | 1357  | Produits pétroliers             |
| <b>Sorties de transformation</b>       |        |        |        |         |      |       |       |       |       |                                 |
| 114678                                 | 118803 | 135760 | 139253 | 128384  | 2521 | 3081  | 4689  | 5019  | 4807  | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 79852                                  | 79106  | 91919  | 94677  | 83681   | 1302 | 1729  | 2915  | 3169  | 2842  | Produits pétroliers             |
| 24078                                  | 31146  | 37463  | 38148  | 38325   | 937  | 1163  | 1631  | 1702  | 1786  | Electricité                     |
| <b>Consommation finale énergétique</b> |        |        |        |         |      |       |       |       |       |                                 |
| 131101                                 | 136068 | 145466 | 150514 | 152121* | 6204 | 7089  | 8633  | 9224  | 9743  | Total                           |
|  |        |        |        |         |      |       |       |       |       | <i>dont :</i>                   |
| 65828                                  | 67570  | 69064  | 72379  | 72961   | 3227 | 3825  | 5349  | 5749  | 6381  | Produits pétroliers             |
| 20903                                  | 22312  | 28297  | 29046  | 30307   | 242  | 574   | 870   | 963   | 1035  | Gaz naturel                     |
| 21747                                  | 25959  | 30541  | 31573  | 32219   | 839  | 1020  | 1435  | 1519  | 1616  | Electricité                     |
| 38052                                  | 37044  | 36616  | 37101  | 36448*  | 1767 | 1788  | 1835  | 1911  | 1978  | Industrie                       |
| 4641                                   | 3212   | 2580   | 2204   | 1722    | 444  | 471   | 441   | 435   | 464   | Fuel-oil résiduel               |
| 8391                                   | 9484   | 11157  | 11755  | 11974   | 210  | 363   | 379   | 400   | 404   | Gaz naturel                     |
| 8655                                   | 9859   | 10980  | 11348  | 11402   | 308  | 385   | 568   | 609   | 625   | Electricité                     |
| 33525                                  | 41908  | 46845  | 49386  | 50374   | 1687 | 1965  | 2922  | 3294  | 3677  | Transport                       |
| 18915                                  | 19153  | 15372  | 15295  | 15220   | 884  | 930   | 1235  | 1373  | 1486  | Essences moteur                 |
| 11194                                  | 18092  | 25288  | 26877  | 27492   | 569  | 662   | 1222  | 1443  | 1630  | Gasoil routier                  |
| 59523                                  | 57114  | 62005  | 64026  | 65299*  | 2749 | 3335  | 3875  | 4017  | 4087  | Services & ménages etc.         |
| 18526                                  | 15059  | 14306  | 15194  | 15077   | 349  | 873   | 1085  | 995   | 1050  | Gasoil                          |
| 12511                                  | 12828  | 17138  | 17290  | 18333   | 31   | 210   | 491   | 563   | 631   | Gaz naturel                     |
| -                                      | -      | -      | -      | -       | -    | -     | -     | -     | -     | Chaleur                         |
| 12436                                  | 15336  | 18626  | 19269  | 19849   | 529  | 633   | 864   | 907   | 989   | Electricité                     |

(1) Y compris le solde du commerce extérieur et mouvement des stocks des produits dérivés.

# "Final energy" Balance

## Principal aggregates by product

|                                 | Italia |        |        |        |         | Luxembourg |      |      |      |      |
|---------------------------------|--------|--------|--------|--------|---------|------------|------|------|------|------|
| <i>in 1000 toe</i>              | 1985   | 1990   | 1997   | 1998   | 1999    | 1985       | 1990 | 1997 | 1998 | 1999 |
| <b>BALANCE</b>                  |        |        |        |        |         |            |      |      |      |      |
| <b>Primary production</b>       |        |        |        |        |         |            |      |      |      |      |
| Total                           | 24844  | 27242  | 34736  | 34524  | 33019*  | 49         | 46   | 46   | 50   | 45   |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Hard coal                       | -      | 36     | -      | 6      | 4       | -          | -    | -    | -    | -    |
| Crude oil                       | 2412   | 4704   | 6001   | 5670   | 5051    | -          | -    | -    | -    | -    |
| Natural gas                     | 11538  | 14029  | 15779  | 15568  | 14312   | -          | -    | -    | -    | -    |
| Nuclear heat                    | 1979   | -      | -      | -      | -       | -          | -    | -    | -    | -    |
| Hydro-electricity               | 3533   | 2719   | 3577   | 3544   | 3900    | 6          | 5    | 6    | 9    | 8    |
| Biomass                         | 3343   | 3373   | 6721   | 6903   | 6903*   | 42         | 40   | 39   | 39   | 35   |
| <b>Imports</b>                  |        |        |        |        |         |            |      |      |      |      |
| Total                           | 127053 | 151930 | 155544 | 163521 | 163996  | 3161       | 3593 | 3374 | 3355 | 3422 |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Hard coal                       | 14981  | 13828  | 10398  | 11262  | 11765   | 139        | 137  | 135  | 106  | 107  |
| Crude oil and feedstocks        | 75220  | 86870  | 88503  | 92759  | 88897   | -          | -    | -    | -    | -    |
| Petroleum products              | 18561  | 22760  | 20880  | 20644  | 18975   | 1096       | 1633 | 1917 | 2065 | 2119 |
| Natural gas                     | 16040  | 25311  | 32010  | 34927  | 40527   | 303        | 429  | 626  | 632  | 655  |
| Electricity                     | 2158   | 3059   | 3424   | 3579   | 3657    | 341        | 401  | 518  | 544  | 534  |
| <b>Exports</b>                  |        |        |        |        |         |            |      |      |      |      |
| Total                           | 12644  | 19970  | 21310  | 23154  | 20266   | 58         | 77   | 77   | 96   | 75   |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Crude oil and feedstocks        | 16     | 2595   | 420    | 413    | -       | -          | -    | -    | -    | -    |
| Petroleum products              | 12197  | 17159  | 20681  | 22561  | 20095   | 21         | 13   | 5    | 16   | 19   |
| <b>Gross inland consumption</b> |        |        |        |        |         |            |      |      |      |      |
| Total                           | 136050 | 154792 | 168055 | 172583 | 175170* | 3134       | 3551 | 3351 | 3273 | 3439 |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Hard coal and equivalents (1)   | 14827  | 14319  | 11191  | 11680  | 11754   | 1402       | 1122 | 304  | 106  | 107  |
| Crude oil and equivalents (1)   | 81005  | 89811  | 92656  | 92914  | 90515   | 1057       | 1608 | 1920 | 2012 | 2147 |
|                                 |        |        |        | 51126  | 55568   | 303        | 429  | 626  | 632  | 655  |
| <b>Transformation input</b>     |        |        |        |        |         |            |      |      |      |      |
| Total                           | 121290 | 139379 | 147961 | 152547 | 147007* | 565        | 573  | 167  | 64   | 62   |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Hard coal                       | 13094  | 12871  | 9498   | 10018  | 9913    | 13         | -    | -    | -    | -    |
| Lignite and peat                | 316    | 293    | 22     | 64     | 53      | -          | -    | -    | -    | -    |
| Crude oil and feedstocks        | 79840  | 91898  | 98251  | 101646 | 96165   | -          | -    | -    | -    | -    |
| Petroleum products              | 16228  | 21566  | 23266  | 21929  | 19043   | 4          | 6    | -    | -    | -    |
| <b>Transformation output</b>    |        |        |        |        |         |            |      |      |      |      |
| Total                           | 99143  | 113973 | 120659 | 124478 | 118292  | 453        | 426  | 111  | 45   | 45   |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Petroleum products              | 78591  | 91069  | 97307  | 100739 | 95090   | -          | -    | -    | -    | -    |
| Electricity                     | 12136  | 15633  | 17608  | 18245  | 18355   | 37         | 48   | 27   | 21   | 22   |
| <b>Final energy consumption</b> |        |        |        |        |         |            |      |      |      |      |
| Total                           | 96537  | 110414 | 121213 | 123522 | 128257* | 2970       | 3319 | 3234 | 3183 | 3355 |
| <i>among which:</i>             |        |        |        |        |         |            |      |      |      |      |
| Petroleum products              | 52609  | 54694  | 54421  | 54498  | 57602   | 1023       | 1575 | 1910 | 1990 | 2123 |
| Natural gas                     | 19577  | 28724  | 34417  | 36219  | 37665   | 301        | 419  | 583  | 589  | 610  |
| Electricity                     | 14934  | 18407  | 21308  | 21904  | 22444   | 326        | 354  | 441  | 455  | 473  |
| Industry                        | 31537  | 36902  | 37428  | 36641  | 39222*  | 1772       | 1718 | 1032 | 863  | 945  |
| Residual fuel-oil               | 6029   | 4484   | 3036   | 2830   | 3997    | 72         | 227  | 39   | 6    | 4    |
| Natural gas                     | 7810   | 12970  | 15018  | 15342  | 15863   | 147        | 279  | 382  | 373  | 416  |
| Electricity                     | 7986   | 9530   | 10622  | 10924  | 11508   | 215        | 225  | 271  | 283  | 317  |
| Transport                       | 27751  | 33403  | 38669  | 40921  | 40985   | 598        | 1006 | 1466 | 1552 | 1706 |
| Motor spirit                    | 12276  | 13750  | 18234  | 18790  | 18453   | 318        | 432  | 566  | 568  | 578  |
| Diesel oil                      | 12002  | 15558  | 15102  | 16304  | 16794   | 194        | 433  | 641  | 692  | 786  |
|                                 |        |        |        | 45960  | 48050*  | 599        | 593  | 735  | 767  | 704  |
| Gas oil                         | 13134  | 10152  | 7488   | 7084   | 7359    | 287        | 294  | 331  | 347  | 326  |
| Natural gas                     | 11528  | 15546  | 19122  | 20590  | 21513   | 153        | 140  | 200  | 216  | 194  |
| Heat                            | -      | -      | -      | -      | -       | -          | -    | 3    | 4    | 6    |
| Electricity                     | 6529   | 8337   | 10021  | 10304  | 10257   | 106        | 125  | 162  | 164  | 148  |

(1) Includes net imports and stock changes of derived products.

# "Endenergiebilanz" Hauptaggregate nach Erzeugnissen

Niederland

Österreich

| 1985                                      | 1990   | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998   | 1999  | in 1000 t ROE                     |
|---|--------|--------|--------|--------|-------|-------|-------|--------|-------|-----------------------------------|
| <b>BILANZ</b>                             |        |        |        |        |       |       |       |        |       |                                   |
| <b>Erzeugung von Primärenergieträgern</b> |        |        |        |        |       |       |       |        |       |                                   |
| 65402                                     | 60261  | 65521  | 62684  | 59207  | 8439  | 8706  | 9113  | 9098   | 9365  | Insgesamt                         |
| -   | -      | -      | -      | -      | -     | -     | -     | -      | -     | davon:                            |
| -   | -      | -      | -      | -      | 625   | 643   | 264   | 267    | 238   | Steinkohle                        |
| 4092                                      | 3997   | 2960   | 2680   | 2554   | 1153  | 1185  | 976   | 988    | 1005  | Braunkohle und Torf               |
| 59519                                     | 54613  | 60591  | 57612  | 54117  | 1009  | 1107  | 1215  | 1334   | 1478  | Rohöl                             |
| 977                                       | 880    | 590    | 936    | 988    | -     | -     | -     | -      | -     | Naturgas                          |
| -   | 7      | 7      | 9      | 7      | 2658  | 2707  | 3092  | 3191   | 3496  | Wärme aus Kernkraftwerken         |
| 812                                       | 756    | 1325   | 1383   | 1475   | 2985  | 3047  | 3507  | 3250   | 3067  | Hydro-Elektrizität                |
|   |        |        |        |        |       |       |       |        |       | Biomasse                          |
| <b>Einfuhr</b>                            |        |        |        |        |       |       |       |        |       |                                   |
| 87263                                     | 103512 | 117289 | 118273 | 118791 | 16967 | 18285 | 21078 | 22265  | 21490 | Insgesamt                         |
| 7764                                      | 11198  | 13003  | 14206  | 11754  | 2406  | 2412  | 2493  | 2457   | 2199  | davon:                            |
| 39763                                     | 49276  | 61260  | 62504  | 59716  | 6680  | 7800  | 8983  | 9158   | 8316  | Steinkohle                        |
| 37234                                     | 39854  | 36414  | 35040  | 37256  | 2549  | 2287  | 3036  | 3949   | 4324  | Rohöl und Feedstocks              |
| 1580                                      | 2032   | 5173   | 5164   | 7751   | 3641  | 4488  | 5128  | 5297   | 5189  | Mineralölprodukte                 |
| 519                                       | 832    | 1126   | 1051   | 1926   | 520   | 587   | 774   | 885    | 998   | Naturgas                          |
|   |        |        |        |        |       |       |       |        |       | Elektrizität                      |
| <b>Ausfuhr</b>                            |        |        |        |        |       |       |       |        |       |                                   |
| 83198                                     | 86124  | 94583  | 94814  | 92945  | 1510  | 1007  | 2189  | 2432   | 2753  | Insgesamt                         |
| 1458                                      | 1319   | 520    | 344    | 309    | -     | -     | 24    | -      | 52    | davon:                            |
| 51351                                     | 56934  | 60693  | 60732  | 60058  | 837   | 378   | 1324  | 1532   | 1539  | Rohöl und Feedstocks              |
|   |        |        |        |        |       |       |       |        |       | Mineralölprodukte                 |
| <b>Bruttoinlandsverbrauch</b>             |        |        |        |        |       |       |       |        |       |                                   |
| 61591                                     | 66816  | 75029  | 75003  | 74430  | 23672 | 25653 | 28482 | 28790  | 28357 | Insgesamt                         |
| 6520                                      | 9080   | 9104   | 9236   | 7468   | 2950  | 3361  | 3297  | 2883   | 2660  | davon:                            |
| 20398                                     | 24414  | 27283  | 27152  | 27989  | 9610  | 10522 | 11683 | 12430  | 12014 | Steinkohle und Aquivalente (1)    |
| 32324                                     | 30809  | 35333  | 34945  | 34580  | 4599  | 5236  | 6538  | 6730   | 6830  | Rohöl und Aquivalente (1)         |
|   |        |        |        |        |       |       |       |        |       | Naturgas                          |
| <b>Umwandlungseinsatz</b>                 |        |        |        |        |       |       |       |        |       |                                   |
| 73651                                     | 87695  | 103259 | 104671 | 100690 | 13026 | 15317 | 17164 | 16775* | 16270 | Insgesamt                         |
| 6039                                      | 8529   | 7964   | 8130   | 6808   | 1663  | 2590  | 2281  | 2137   | 2191  | davon:                            |
| -   | -      | -      | -      | -      | 586   | 568   | 286   | 180    | 326   | Steinkohle                        |
| 56251                                     | 68768  | 80941  | 81531  | 77894  | 8010  | 8796  | 10156 | 9959   | 9408  | Braunkohle und Torf               |
| 694                                       | 702    | 734    | 708    | 1470   | 737   | 673   | 722   | 888*   | 868   | Rohöl und Feedstocks              |
|   |        |        |        |        |       |       |       |        |       | Mineralölprodukte                 |
| <b>Umwandlungsausstoss</b>                |        |        |        |        |       |       |       |        |       |                                   |
| 65050                                     | 78057  | 93288  | 94223  | 89770  | 11656 | 12869 | 14704 | 14344  | 13831 | Insgesamt                         |
| 55971                                     | 68432  | 80403  | 80788  | 76993  | 8066  | 8762  | 10159 | 9817   | 9292  | davon:                            |
| 5411                                      | 6164   | 7402   | 7770   | 7389   | 1111  | 1541  | 1681  | 1609   | 1601  | Mineralölprodukte                 |
|   |        |        |        |        |       |       |       |        |       | Elektrizität                      |
| <b>Energetischer Endverbrauch</b>         |        |        |        |        |       |       |       |        |       |                                   |
| 42629                                     | 42938  | 49130  | 49258  | 48475  | 19200 | 19940 | 22901 | 22613  | 22804 | Insgesamt                         |
| 12066                                     | 13118  | 15890  | 16046  | 16031  | 7428  | 8119  | 9229  | 9252   | 9391  | davon:                            |
| 21996                                     | 20725  | 21434  | 21030  | 19993  | 2497  | 2646  | 3582  | 3669   | 3838  | Mineralölprodukte                 |
| 5283                                      | 6321   | 7696   | 7974   | 8144   | 3182  | 3711  | 4199  | 4193   | 4281  | Naturgas                          |
| 13775                                     | 13187  | 13207  | 13101  | 12803  | 5876  | 5765  | 7052  | 6911   | 6296  | Elektrizität                      |
| 184                                       | 370    | 50     | 57     | 42     | 888   | 792   | 684   | 578    | 507   | Industrie                         |
| 6796                                      | 6514   | 5879   | 5789   | 5712   | 1226  | 1456  | 2105  | 2132   | 2016  | Rückstandsheizöle                 |
| 2429                                      | 2857   | 3326   | 3385   | 3438   | 1314  | 1562  | 1593  | 1676   | 1441  | Naturgas                          |
| 8801                                      | 10316  | 13521  | 13638  | 13766  | 4518  | 5397  | 6374  | 6027   | 6156  | Elektrizität                      |
| 3566                                      | 3627   | 4356   | 4321   | 4355   | 2530  | 2691  | 2200  | 2231   | 2123  | Verkehr                           |
| 3022                                      | 3973   | 5223   | 5119   | 5174   | 1527  | 2114  | 3343  | 3051   | 3309  | Motorenbenzin                     |
| 20052                                     | 19434  | 22401  | 22519  | 21905  | 8805  | 8777  | 9473  | 9674   | 10351 | Dieselmotoren                     |
| 870                                       | 1392   | 1240   | 1186   | 1384   | 1063  | 1259  | 1892  | 2273   | 2318  | Dienstleistungen & Haushalte usw. |
| 15200                                     | 14211  | 15555  | 15240  | 14281  | 1270  | 1189  | 1461  | 1536   | 1822  | Heizöle                           |
| -   | -      | 920    | 1171   | 1206   | 401   | 498   | 893   | 892    | 902   | Naturgas                          |
| 2759                                      | 3354   | 4235   | 4448   | 4564   | 1677  | 1919  | 2360  | 2329   | 2664  | Abgeleitete Wärme                 |
|   |        |        |        |        |       |       |       |        |       | Elektrizität                      |

(1) einschließlich Außenhandelsaldo u. Bestandsveränderungen abgeleiteter Erzeugnisse

**"Final energy" Balance**  
**Principal aggregates by product**

Portugal

Suomi/Finland

| <i>in 1000 toe</i>              | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>BALANCE</b>                  |       |       |       |       |       |       |       |       |       |       |
| <b>Primary production</b>       |       |       |       |       |       |       |       |       |       |       |
| Total                           | 3195  | 2658  | 3213  | 3035  | 2656  | 11161 | 11735 | 14733 | 13115 | 15153 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Hard coal                       | 97    | 115   | -     | -     | -     | 764   | 1458  | 2663  | 430   | 1965  |
| Crude oil                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Natural gas                     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Nuclear heat                    | -     | -     | -     | -     | -     | 4985  | 5006  | 5389  | 5370  | 5926  |
| Hydro-electricity               | 925   | 787   | 1126  | 1116  | 625   | 1060  | 933   | 1052  | 1294  | 1098  |
| Biomass                         | 2168  | 1742  | 2021  | 1843  | 1932  | 4370  | 4336  | 5625  | 5951  | 6157  |
| <b>Imports</b>                  |       |       |       |       |       |       |       |       |       |       |
| Total                           | 10273 | 17773 | 20814 | 21721 | 23908 | 18410 | 19745 | 22816 | 23175 | 22342 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Hard coal                       | 829   | 2787  | 3667  | 3257  | 3790  | 3205  | 3844  | 4350  | 2851  | 2302  |
| Crude oil and feedstocks        | 7192  | 11359 | 13506 | 13838 | 13750 | 9994  | 8889  | 10434 | 12267 | 11693 |
| Petroleum products              | 1839  | 3468  | 3078  | 3586  | 4101  | 3088  | 3269  | 4115  | 3580  | 3690  |
| Natural gas                     | -     | -     | 99    | 697   | 1953  | 799   | 2260  | 2906  | 3335  | 3337  |
| Electricity                     | 303   | 149   | 462   | 341   | 311   | 484   | 946   | 696   | 823   | 976   |
| <b>Exports</b>                  |       |       |       |       |       |       |       |       |       |       |
| Total                           | 635   | 2614  | 2378  | 2300  | 1827  | 2315  | 1714  | 4281  | 4852  | 5126  |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Crude oil and feedstocks        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Petroleum products              | 524   | 2461  | 2120  | 1928  | 1387  | 2213  | 1682  | 4228  | 4811  | 5093  |
| <b>Gross inland consumption</b> |       |       |       |       |       |       |       |       |       |       |
| Total                           | 12355 | 16740 | 20911 | 22260 | 23965 | 26710 | 28463 | 32551 | 33101 | 32722 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Hard coal and equivalents (1)   | 664   | 2579  | 3490  | 3170  | 3790  | 4096  | 4092  | 4633  | 3517  | 3637  |
| Crude oil and equivalents (1)   | 8400  | 11613 | 13871 | 15333 | 15572 | 10217 | 9937  | 10147 | 10835 | 9902  |
|                                 |       |       |       | 697   | 1939  | 799   | 2260  | 2906  | 3335  | 3337  |
| <b>Transformation input</b>     |       |       |       |       |       |       |       |       |       |       |
| Total                           | 9491  | 15787 | 18208 | 19941 | 21286 | 21241 | 22412 | 27270 | 27765 | 28299 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Hard coal                       | 478   | 2244  | 3194  | 2975  | 3593  | 2558  | 2956  | 4171  | 3038  | 3035  |
| Lignite and peat                | -     | -     | -     | -     | -     | 504   | 658   | 1677  | 1370  | 1291  |
| Crude oil and feedstocks        | 7263  | 11151 | 13167 | 14104 | 13542 | 10675 | 10688 | 11933 | 13727 | 13492 |
| Petroleum products              | 1571  | 2180  | 1498  | 2123  | 2234  | 783   | 553   | 507   | 427   | 507   |
| <b>Transformation output</b>    |       |       |       |       |       |       |       |       |       |       |
| Total                           | 8260  | 13031 | 15355 | 16814 | 16998 | 16005 | 17085 | 20902 | 22359 | 22357 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Petroleum products              | 7168  | 11046 | 13073 | 14093 | 13432 | 10516 | 10553 | 11862 | 13622 | 13307 |
| Electricity                     | 710   | 1650  | 1805  | 2221  | 3055  | 3214  | 3741  | 4893  | 4737  | 4867  |
| <b>Final energy consumption</b> |       |       |       |       |       |       |       |       |       |       |
| Total                           | 9536  | 11065 | 14717 | 15364 | 15971 | 18887 | 21295 | 23164 | 24122 | 24570 |
| <i>among which:</i>             |       |       |       |       |       |       |       |       |       |       |
| Petroleum products              | 5424  | 6688  | 9411  | 9921  | 10089 | 7327  | 8056  | 7493  | 7693  | 7782  |
| Natural gas                     | -     | -     | 43    | 234   | 489   | 486   | 1225  | 1327  | 1487  | 1462  |
| Electricity                     | 1496  | 2024  | 2746  | 2910  | 3105  | 4171  | 5068  | 6049  | 6260  | 6380  |
| Industry                        | 3686  | 3989  | 5056  | 5237  | 5258  | 8426  | 9225  | 10824 | 11409 | 11983 |
| Residual fuel-oil               | 1484  | 1279  | 1593  | 1562  | 1313  | 1085  | 820   | 719   | 845   | 864   |
| Natural gas                     | -     | -     | 41    | 219   | 435   | 444   | 1183  | 1263  | 1427  | 1397  |
| Electricity                     | 776   | 1050  | 1197  | 1253  | 1297  | 2349  | 2796  | 3394  | 3505  | 3570  |
| Transport                       | 2659  | 3733  | 5266  | 5704  | 6043  | 3346  | 4265  | 4240  | 4296  | 4398  |
| Motor spirit                    | 898   | 1440  | 2050  | 2133  | 2188  | 1587  | 2075  | 1969  | 1940  | 1933  |
| Diesel oil                      | 1271  | 1686  | 2575  | 2892  | 3059  | 1448  | 1652  | 1724  | 1794  | 1897  |
|                                 |       |       |       | 4422  | 4669  | 7114  | 7804  | 8099  | 8416  | 8188  |
| Gas oil                         | 431   | 508   | 672   | 768   | 808   | 2068  | 2253  | 1976  | 2027  | 1894  |
| Natural gas                     | -     | -     | 2     | 14    | 54    | 42    | 41    | 63    | 60    | 65    |
| Heat                            | -     | -     | -     | -     | -     | 1684  | 1740  | 2074  | 2176  | 2136  |
| Electricity                     | 696   | 947   | 1519  | 1625  | 1776  | 1790  | 2235  | 2612  | 2710  | 2765  |

(1) Includes net imports and stock changes of derived products.

# Bilan "Energie finale" Principaux agrégats par produit

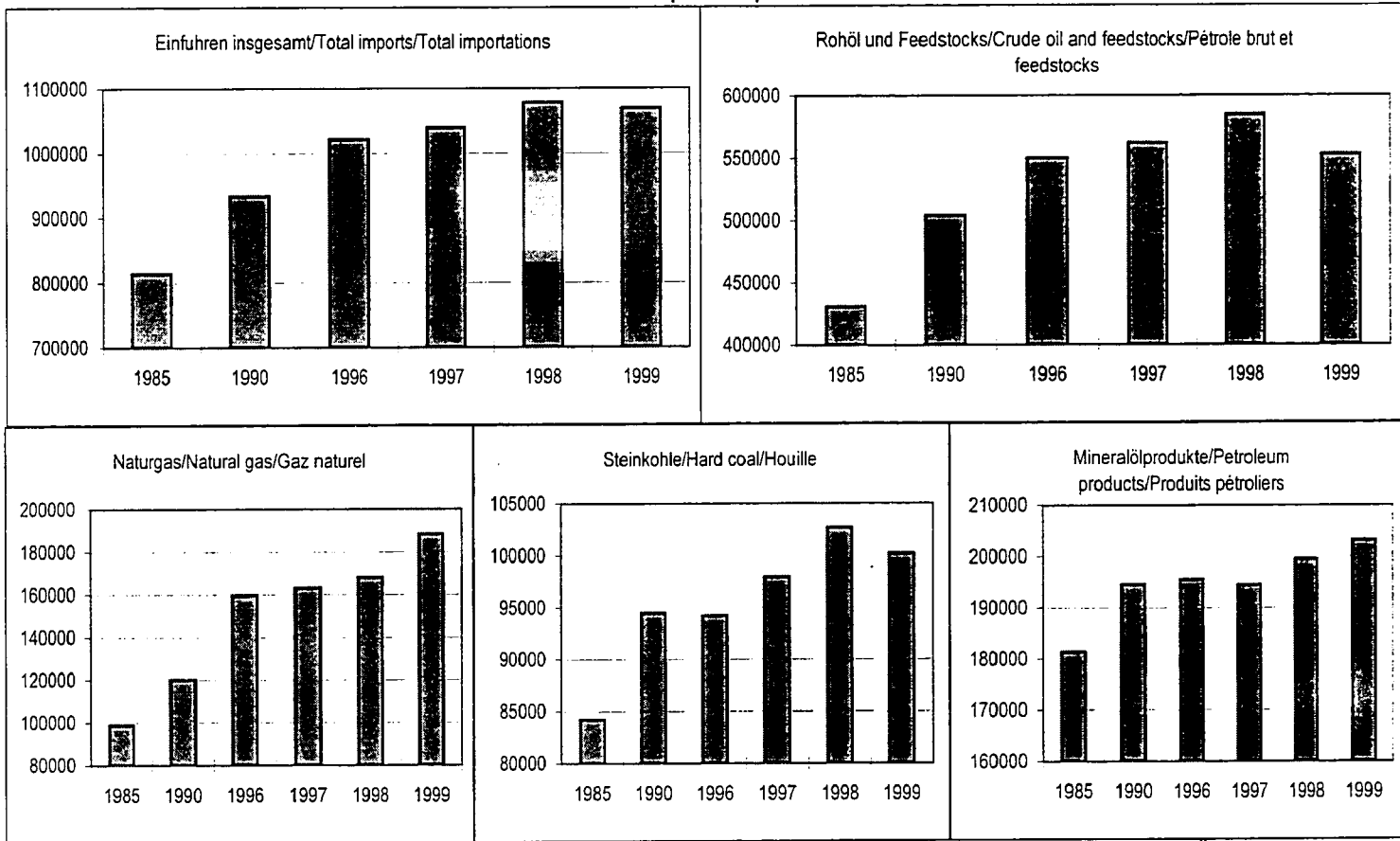
Sverige

United Kingdom

| 1985                                   | 1990  | 1997  | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   | en 1000 tep                     |
|--|-------|-------|-------|-------|--------|--------|--------|--------|--------|---------------------------------|
| <b>BILAN</b>                           |       |       |       |       |        |        |        |        |        |                                 |
| <b>Production primaire</b>             |       |       |       |       |        |        |        |        |        |                                 |
| 26727                                  | 29605 | 31727 | 30321 | 32568 | 234860 | 203629 | 261431 | 268743 | 278322 | Total                           |
| 4                                      | 3     | -     | -     | -     | 53130  | 52256  | 28678  | 25155  | 22716  | dont :                          |
| 95                                     | 264   | 275   | 342   | 214   | -      | -      | -      | -      | -      | Houille                         |
| 7                                      | 2     | -     | -     | -     | 129082 | 92793  | 130190 | 134362 | 139185 | Lignite et tourbe               |
| -                                      | -     | -     | -     | -     | 35720  | 40918  | 77258  | 81130  | 89004  | Pétrole brut                    |
| 15257                                  | 17764 | 18038 | 16165 | 18879 | 15980  | 16573  | 23248  | 25831  | 24836  | Gaz naturel                     |
| 6104                                   | 6234  | 5934  | 6391  | 6166  | 352    | 436    | 354    | 450    | 460    | Chaleur nucléaire               |
| 5254                                   | 5331  | 7458  | 7390  | 7271  | 573    | 639    | 1637   | 1730   | 2035   | Hydroélectricité                |
|  |       |       |       |       |        |        |        |        |        | Biomasse                        |
| <b>Importations</b>                    |       |       |       |       |        |        |        |        |        |                                 |
| 26696                                  | 27633 | 30817 | 30352 | 29035 | 69478  | 82721  | 75834  | 77356  | 75289  | Total                           |
| 2935                                   | 2136  | 2220  | 2057  | 1875  | 8640   | 10794  | 13227  | 14803  | 14484  | dont :                          |
| 14316                                  | 17314 | 20508 | 20248 | 19719 | 36011  | 53421  | 50755  | 48680  | 45573  | Houille                         |
| 8659                                   | 6321  | 6205  | 6551  | 5757  | 13153  | 11061  | 8731   | 11395  | 12712  | Pétrole brut et feedstocks      |
| 74                                     | 528   | 718   | 712   | 713   | 11385  | 6178   | 1088   | 818    | 995    | Produits pétroliers             |
| 444                                    | 1109  | 881   | 524   | 730   | -      | 1030   | 1428   | 1085   | 1247   | Gaz naturel                     |
|  |       |       |       |       |        |        |        |        |        | Electricité                     |
| <b>Exportations</b>                    |       |       |       |       |        |        |        |        |        |                                 |
| 6663                                   | 9814  | 10840 | 10343 | 10810 | 101126 | 75381  | 109799 | 113738 | 122235 | Total                           |
| 254                                    | 381   | 408   | 399   | 445   | 83921  | 56530  | 80199  | 85887  | 93193  | dont :                          |
| 5713                                   | 8141  | 9292  | 8442  | 8922  | 14864  | 16939  | 26918  | 24448  | 21726  | Pétrole brut et feedstocks      |
|  |       |       |       |       |        |        |        |        |        | Produits pétroliers             |
| <b>Consommation intérieure brute</b>   |       |       |       |       |        |        |        |        |        |                                 |
| 46942                                  | 46943 | 50346 | 48230 | 50438 | 203603 | 211538 | 222532 | 229954 | 229208 | Total                           |
| 2701                                   | 2464  | 2363  | 2355  | 2151  | 62772  | 63310  | 39819  | 41030  | 36898  | dont :                          |
| 17578                                  | 14498 | 15766 | 15754 | 15575 | 77282  | 82343  | 79803  | 80415  | 80694  | Houille et équivalents (1)      |
| 74                                     | 528   | 718   | 712   | 713   | 46636  | 47201  | 76179  | 79341  | 82928  | Pétrole brut et équivalents (1) |
|  |       |       |       |       |        |        |        |        |        | Gaz naturel                     |
| <b>Entrées en transformation</b>       |       |       |       |       |        |        |        |        |        |                                 |
| 35013                                  | 39700 | 45844 | 43870 | 46722 | 160493 | 173526 | 179121 | 183326 | 174968 | Total                           |
| 2227                                   | 1761  | 1679  | 1688  | 1632  | 51430  | 55879  | 33500  | 36918  | 31847  | dont :                          |
| 94                                     | 286   | 268   | 304   | 185   | -      | -      | -      | -      | -      | Houille                         |
| 14106                                  | 17983 | 21731 | 21357 | 21337 | 79348  | 89869  | 98502  | 95211  | 89628  | Lignite et tourbe               |
| 1941                                   | 492   | 993   | 1099  | 814   | 10877  | 7590   | 1940   | 1117   | 749    | Pétrole brut et feedstocks      |
|  |       |       |       |       |        |        |        |        |        | Produits pétroliers             |
| <b>Sorties de transformation</b>       |       |       |       |       |        |        |        |        |        |                                 |
| 23097                                  | 26528 | 33526 | 33489 | 33753 | 114288 | 126104 | 135206 | 132852 | 127104 | Total                           |
| 13371                                  | 17060 | 21458 | 21029 | 21174 | 79001  | 89297  | 98423  | 94983  | 89298  | dont :                          |
| 5635                                   | 6317  | 6887  | 7186  | 7153  | 25035  | 26819  | 29157  | 30462  | 30752  | Produits pétroliers             |
|  |       |       |       |       |        |        |        |        |        | Electricité                     |
| <b>Consommation finale énergétique</b> |       |       |       |       |        |        |        |        |        |                                 |
| 31165                                  | 30432 | 33439 | 33364 | 32573 | 127681 | 136717 | 148788 | 148993 | 150714 | Total                           |
| 13130                                  | 11995 | 12260 | 12291 | 11895 | 51651  | 59196  | 62659  | 62608  | 62055  | dont :                          |
| 64                                     | 333   | 400   | 369   | 417   | 37419  | 39514  | 48928  | 49984  | 51224  | Produits pétroliers             |
| 9769                                   | 10347 | 10556 | 10621 | 10777 | 20814  | 23596  | 26590  | 27140  | 27545  | Gaz naturel                     |
| 11866                                  | 11825 | 12648 | 12437 | 11654 | 32867  | 34591  | 37310  | 35924  | 37379  | Electricité                     |
| 1858                                   | 925   | 921   | 921   | 925   | 3077   | 3268   | 1744   | 1259   | 1061   | Industrie                       |
| 58                                     | 248   | 280   | 237   | 286   | 9421   | 9640   | 13137  | 13301  | 14313  | Fuel-oil résiduel               |
| 4205                                   | 4639  | 4599  | 4674  | 4579  | 7567   | 8653   | 9006   | 9075   | 9330   | Gaz naturel                     |
| 6432                                   | 7233  | 7689  | 7779  | 7739  | 35798  | 45450  | 49448  | 50045  | 50371  | Electricité                     |
| 3950                                   | 4382  | 4341  | 4225  | 4245  | 21471  | 25577  | 23385  | 22996  | 22652  | Transport                       |
| 1588                                   | 1819  | 2194  | 2398  | 2280  | 8818   | 12562  | 16653  | 16768  | 16729  | Essences moteur                 |
| 12867                                  | 11373 | 13101 | 13147 | 13179 | 59015  | 56675  | 62029  | 63023  | 62963  | Gasoil routier                  |
| 3670                                   | 2812  | 2704  | 2614  | 2468  | 5026   | 3888   | 2736   | 2602   | 2222   | Services & ménages etc.         |
| 5                                      | 85    | 120   | 132   | 131   | 27998  | 29873  | 35791  | 36682  | 36910  | Gasoil                          |
| 2255                                   | 1539  | 3233  | 3358  | 3472  | -      | -      | -      | -      | -      | Gaz naturel                     |
| 5338                                   | 5495  | 5702  | 5705  | 5957  | 12993  | 14488  | 16917  | 17345  | 17487  | Chaleur                         |
|  |       |       |       |       |        |        |        |        |        | Electricité                     |

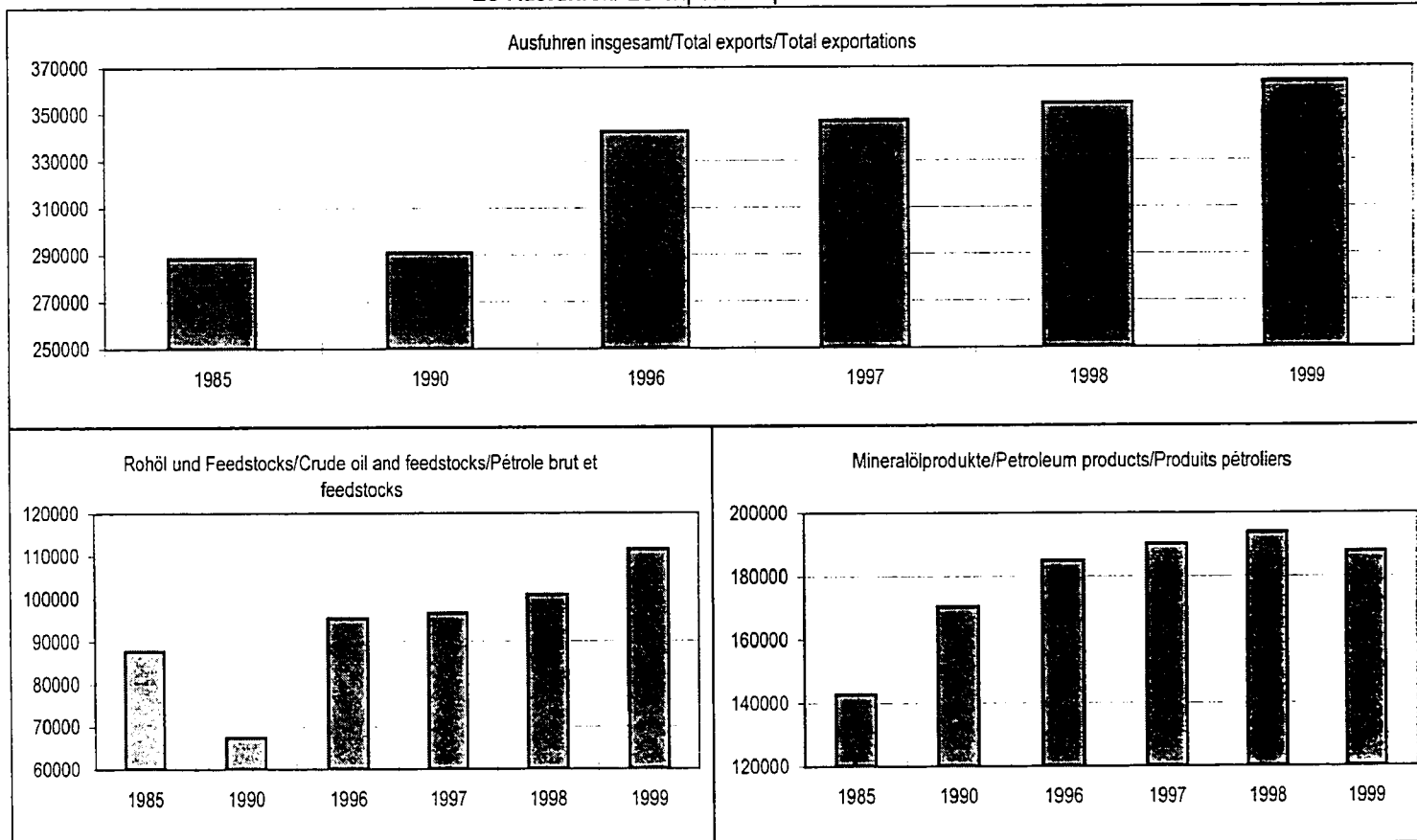
(1) Y compris le solde du commerce extérieur et mouvement des stocks des produits dérivés.

### EU Einfuhren/EU imports/Importations de l'UE



1000 t RÖE/1000 toe/1000 tep

### EU Ausfuhren/ EU exports/Exportations de l'UE



1000 t RÖE/1000 toe/1000 tep



# 3

TABELLEN NACH ENERGIETRÄGERN  
TABLES BY ENERGY SOURCE  
TABLEAUX PAR SOURCE D'ENERGIE



Feste Brennstoffe  
Solid Fuels  
Combustibles Solides

**Solid fuels**  
**Principal aggregates**

EU-15

Belgique/België

| <i>in 1000 t</i>   | 1985   | 1990   | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  |
|--|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| <b>Hard coal</b>   |        |        |        |        |        |       |       |       |       |       |
| <b>1. BALANCE</b>  |        |        |        |        |        |       |       |       |       |       |
| Primary production   | 217402 | 197212 | 121850 | 108328 | 99978  | 6237  | 1036  | -     | -     | -     |
| Total imports  | 130398 | 143539 | 150959 | 156829 | 154687 | 9320  | 14759 | 12796 | 12634 | 10836 |
|  |        |        |        |        |        | 1246  | 668   | 1454  | 1294  | 1156  |
| Gross inland consumption   | 338534 | 336210 | 266116 | 265072 | 248869 | 15477 | 16112 | 11682 | 11401 | 10021 |
| Consumption in power stations                                    | 193896 | 217443 | 177555 | 181390 | 169472 | 5173  | 6637  | 5145  | 5087  | 3759  |
| Consumption in coking plants                                     | 87184  | 74203  | 52776  | 52245  | 48543  | 7648  | 7157  | 4179  | 3885  | 3850  |
| Consumption in industry  | 31541  | 31752  | 25326  | 23051  | 22795  | 1156  | 1603  | 2371  | 1900  | 1926  |
| Cons. in services & households etc.                              | 19566  | 11156  | 7038   | 5366   | 5261   | 1368  | 704   | 446   | 307   | 270   |
| <b>2. IMPORTS</b>  |        |        |        |        |        |       |       |       |       |       |
| Intra-EU total   | 13297  | 10491  | 3930   | 4216   | 3723   | 2335  | 1559  | 337   | 264   | 213   |
| Extra-EU total   | 111671 | 128787 | 147036 | 151840 | 150963 | 6985  | 13200 | 12459 | 12370 | 10622 |
| <i>among which :</i>   |        |        |        |        |        |       |       |       |       |       |
| USA  | 37216  | 46548  | 35357  | 28091  | 20023  | 3622  | 5878  | 3591  | 2594  | 2007  |
| Poland   | 18521  | 12771  | 17646  | 16379  | 18640  | 599   | 347   | -     | 477   | 444   |
| CIS  | 3159   | 7679   | 3152   | 2318   | 6460   | 73    | 234   | 323   | 457   | 484   |
| Australia  | 20290  | 16985  | 18495  | 21483  | 24692  | 220   | 1403  | 2676  | 3616  | 3535  |
| South Africa   | 26051  | 23970  | 33792  | 35363  | 35189  | 2112  | 4521  | 3925  | 4208  | 3075  |
| Colombia   | 1751   | 9248   | 19265  | 18524  | 19195  | 51    | 170   | 246   | 394   | 94    |
| <b>3. STRUCTURAL DATA</b>  |        |        |        |        |        |       |       |       |       |       |
| Personnel employed underground<br><i>(annual mean in 1000's)</i> | 311    | 187    | 80     | 74     | 70     | 14    | 2     | -     | -     | -     |
| Number of active hard coal mines<br><i>(end of year)</i>         | 465    | 317    | 158    | 149    | 146    | 5     | 2     | -     | -     | -     |
| <i>(end of year)</i>   |        |        |        |        |        | 528   | 92    | 20    | 13    | 11    |
| <b>Patent fuel</b>   |        |        |        |        |        |       |       |       |       |       |
| Production   | 3674   | 1810   | 1406   | 1035   | 1005   | 28    | 1     | 12    | 10    | 7     |
| Cons. in services & households etc.                              | 3223   | 1625   | 1367   | 1144   | 987    | 152   | 30    | 12    | 10    | 8     |
| <b>Coke</b>  |        |        |        |        |        |       |       |       |       |       |
| Production   | 71315  | 59106  | 40532  | 39852  | 36658  | 5964  | 5420  | 3401  | 3003  | 3137  |
| Inland market consumption  | 78551  | 61881  | 47167  | 46365  | 44263  | 5748  | 5335  | 3723  | 3797  | 3771  |
| <i>among which :</i>   |        |        |        |        |        |       |       |       |       |       |
| Blast furnaces   | 19728  | 19043  | 17792  | 17401  | 16710  | 1589  | 1609  | 1258  | 1339  | 1357  |
| Iron & steel industry  | 41139  | 32472  | 25434  | 24545  | 23573  | 3869  | 3552  | 2368  | 2370  | 2345  |
| <b>Lignite and peat</b>  |        |        |        |        |        |       |       |       |       |       |
| Production   | 506019 | 445380 | 261363 | 245060 | 248481 | -     | -     | -     | -     | -     |
| Consumption in power stations                                    | 296381 | 285341 | 236026 | 230082 | 227547 | -     | -     | -     | -     | -     |
| <b>Brown coal briquettes</b>                                     |        |        |        |        |        |       |       |       |       |       |
| Production   | 59829  | 45288  | 7305   | 5942   | 5639   | -     | -     | -     | -     | -     |
| Cons. in services & households etc.                              | 30988  | 26004  | 3639   | 2428   | 2102   | 97    | 47    | 12    | 8     | 6     |

# Feste Brennstoffe Hauptaggregate

Danmark

Deutschland

| 1985                       | 1990  | 1997  | 1998 | 1999 | 1985   | 1990   | 1997   | 1998   | 1999   | in 1000 t                            |
|----------------------------|-------|-------|------|------|--------|--------|--------|--------|--------|--------------------------------------|
| <b>Steinkohle</b>          |       |       |      |      |        |        |        |        |        |                                      |
| -                          | -     | -     | -    | -    | 88849  | 76553  | 51212  | 47208  | 43848  | <b>1. BILANZ</b>                     |
| 12712                      | 10255 | 13474 | 8071 | 7117 | 15547  | 13580  | 20031  | 22249  | 22280  | Förderung                            |
| 71                         | 54    | 105   | 171  | 200  | 9240   | 5512   | 516    | 325    | 201    | Einfuhren                            |
| 12147                      | 9992  | 11138 | 9399 | 7672 | 93466  | 86965  | 72236  | 73379  | 67485  | Ausfuhren                            |
| 10745                      | 9165  | 10552 | 8849 | 7406 | 49713  | 51904  | 49008  | 52482  | 49024  | Bruttoinlandsverbrauch               |
| -                          | -     | -     | -    | -    | 31465  | 24094  | 13097  | 12968  | 10785  | Verbrauch der Wärmekraftwerke        |
| 433                        | 454   | 490   | 444  | 395  | 7947   | 8262   | 6531   | 5486   | 5212   | Verbrauch der Kokereien              |
| 728                        | 337   | 52    | 39   | 30   | 2377   | 993    | 1007   | 397    | 383    | Verbrauch der Industrie              |
|                            |       |       |      |      |        |        |        |        |        | Verbr. d. Dienstlsggew., Haush. usw. |
| 1353                       | 597   | 3     | 1    | 503  | 1126   | 682    | 1000   | 1662   | 1715   | <b>2. EINFUHREN</b>                  |
| 11359                      | 9658  | 13471 | 8070 | 6614 | 9052   | 8637   | 19031  | 20527  | 20565  | Intra-EU insgesamt                   |
|                            |       |       |      |      |        |        |        |        |        | Extra-EU insgesamt                   |
|                            |       |       |      |      |        |        |        |        |        | <i>darunter:</i>                     |
| 2271                       | 3225  | 317   | 574  | -    | 1066   | 665    | 1116   | 838    | 852    | USA                                  |
| 2056                       | 972   | 3470  | 2678 | 2640 | 2815   | 2229   | 3886   | 3703   | 5756   | Polen                                |
| 247                        | 1142  | 430   | 221  | 837  | 541    | 282    | 86     | 5      | 276    | GUS                                  |
| 2484                       | 1129  | 1300  | 446  | 500  | 724    | 414    | 809    | 1860   | 2320   | Australien                           |
| 3496                       | -     | 4599  | 2901 | 1767 | 3230   | 4490   | 7230   | 5440   | 5763   | Südafrika                            |
| 331                        | 2100  | 2773  | 1247 | 1244 | 19     | 120    | 3711   | 2109   | 2783   | Kolumbien                            |
|                            |       |       |      |      |        |        |        |        |        | <b>3. STRUKTURELLE DATEN</b>         |
| -                          | -     | -     | -    | -    | 109    | 88     | 50     | 45     | 42     | Beschäftigte unter Tage              |
|                            |       |       |      |      |        |        |        |        |        | (in 1000)                            |
| -                          | -     | -     | -    | -    | 33     | 27     | 17     | 15     | 15     | Fördernde Schachtanlagen             |
|                            |       |       |      |      |        |        |        |        |        | (am Jahresende)                      |
| -                          | -     | -     | -    | -    | 17958  | 17354  | 10261  | 8585   | 8501   | Bestände bei den Zechen              |
|                            |       |       |      |      |        |        |        |        |        | (am Jahresende)                      |
| <b>Steinkohlenbriketts</b> |       |       |      |      |        |        |        |        |        |                                      |
| -                          | -     | -     | -    | -    | 1564   | 773    | 318    | 185    | 169    | Erzeugung                            |
| -                          | -     | -     | -    | -    | 893    | 465    | 286    | 222    | 143    | Verbr. d. Dienstlsggew., Haush. usw. |
| <b>Koks</b>                |       |       |      |      |        |        |        |        |        |                                      |
| -                          | -     | -     | -    | -    | 30347  | 22306  | 10744  | 10464  | 8569   | Erzeugung                            |
| 71                         | 40    | 43    | 46   | 48   | 29736  | 21376  | 13956  | 14304  | 13139  | Verbrauch des Binnenmarktes          |
|                            |       |       |      |      |        |        |        |        |        | <i>darunter:</i>                     |
| -                          | -     | -     | -    | -    | 6890   | 6314   | 5895   | 5646   | 5198   | Hochöfen                             |
| 4                          | -     | -     | -    | 1    | 13731  | 9332   | 6571   | 6920   | 6501   | Eisen- und Stahlindustrie            |
| <b>Braunkohle</b>          |       |       |      |      |        |        |        |        |        |                                      |
| -                          | -     | -     | -    | -    | 433158 | 357100 | 177160 | 166035 | 161282 | Förderung                            |
| -                          | -     | -     | -    | -    | 225408 | 206382 | 157297 | 150558 | 147370 | Verbrauch der Wärmekraftwerke        |
| <b>Braunkohlenbriketts</b> |       |       |      |      |        |        |        |        |        |                                      |
| -                          | -     | -     | -    | -    | 59214  | 44743  | 6953   | 5601   | 5236   | Erzeugung                            |
| 49                         | 6     | 3     | 3    | 2    | 29706  | 25194  | 3190   | 2000   | 1674   | Verbr. d. Dienstlsggew., Haush. usw. |

**Solid fuels**  
**Principal aggregates**

Ellada

España

| <i>in 1000 t</i>   | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Hard coal</b>   |       |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE</b>  |       |       |       |       |       |       |       |       |       |       |
| Primary production   | -     | -     | -     | -     | -     | 16091 | 19440 | 17878 | 16212 | 15435 |
| Total imports  | 2040  | 1380  | 1214  | 1373  | 1203  | 8416  | 10456 | 11340 | 14554 | 20198 |
|  |       |       |       |       |       | -     | 3     | -     | -     | -     |
| Gross inland consumption   | 1750  | 1380  | 1153  | 1278  | 1032  | 25198 | 30514 | 32494 | 30136 | 34800 |
| Consumption in power stations                                    | 306   | -     | 100   | 17    | 5     | 16641 | 22922 | 27470 | 24980 | 29979 |
| Consumption in coking plants                                     | -     | -     | -     | -     | -     | 4908  | 4485  | 3770  | 3821  | 3374  |
| Consumption in industry  | 1437  | 1379  | 1203  | 1256  | 1027  | 2902  | 2328  | 820   | 948   | 1069  |
| Cons. in services & households etc.                              | 4     | -     | 6     | 5     | -     | 669   | 578   | 420   | 380   | 274   |
| <b>2. IMPORTS</b>  |       |       |       |       |       |       |       |       |       |       |
| Intra-EU total   | -     | -     | -     | -     | -     | 70    | 645   | 295   | 212   | 156   |
| Extra-EU total   | 1979  | 1380  | 1214  | 1370  | 1203  | 8346  | 9811  | 11045 | 14342 | 20042 |
| <i>among which :</i>   |       |       |       |       |       |       |       |       |       |       |
| USA  | 1136  | 16    | 97    | 31    | -     | 3256  | 3174  | 3864  | 2964  | 2355  |
| Poland   | -     | -     | -     | -     | -     | 1016  | 250   | 244   | 221   | 542   |
| CIS  | 29    | 300   | 108   | 31    | 231   | 91    | 285   | 30    | 120   | 1395  |
| Australia  | 588   | -     | -     | -     | -     | 1403  | 943   | 1039  | 1243  | 2255  |
| South Africa   | 207   | 1018  | 764   | 936   | 462   | 2274  | 4667  | 3148  | 5532  | 8666  |
| Colombia   | -     | -     | -     | -     | -     | 134   | 403   | 337   | 419   | 740   |
| <b>3. STRUCTURAL DATA</b>  |       |       |       |       |       |       |       |       |       |       |
| Personnel employed underground<br><i>(annual mean in 1000's)</i> | -     | -     | -     | -     | -     | 33    | 33    | 18    | 17    | 16    |
| Number of active hard coal mines<br><i>(end of year)</i>         | -     | -     | -     | -     | -     | 260   | 209   | 114   | 109   | 106   |
| <i>(end of year)</i>   |       |       |       |       |       | 1069  | 1448  | 857   | 881   | 876   |
| <b>Patent fuel</b>   |       |       |       |       |       |       |       |       |       |       |
| Production   | -     | -     | -     | -     | -     | 11    | 5     | -     | -     | -     |
| Cons. in services & households etc.                              | -     | -     | -     | -     | -     | 11    | 5     | -     | -     | -     |
| <b>Coke</b>  |       |       |       |       |       |       |       |       |       |       |
| Production   | -     | -     | -     | -     | -     | 3440  | 3211  | 2646  | 2631  | 2331  |
| Inland market consumption  | 55    | 42    | 20    | 3     | -     | 3758  | 3352  | 2646  | 2254  | 2083  |
| <i>among which :</i>   |       |       |       |       |       |       |       |       |       |       |
| Blast furnaces   | -     | -     | -     | -     | -     | 997   | 955   | 723   | 722   | 674   |
| Iron & steel industry  | 7     | -     | -     | -     | -     | 2592  | 2135  | 1737  | 1364  | 1294  |
| <b>Lignite and peat</b>  |       |       |       |       |       |       |       |       |       |       |
| Production   | 35888 | 51896 | 58844 | 60884 | 62051 | 23572 | 16373 | 8463  | 9750  | 8832  |
| Consumption in power stations                                    | 34431 | 50524 | 57982 | 58921 | 60552 | 23114 | 16579 | 8473  | 9760  | 8906  |
| <b>Brown coal briquettes</b>                                     |       |       |       |       |       |       |       |       |       |       |
| Production   | 129   | 150   | 99    | 77    | 73    | -     | -     | -     | -     | -     |
| Cons. in services & households etc.                              | 55    | 50    | 44    | 35    | 34    | -     | -     | -     | -     | -     |

# Combustibles solides Principaux agrégats

France

Ireland

| 1985                            | 1990  | 1997  | 1998  | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 | in 1000 t   |
|---------------------------------|-------|-------|-------|-------|------|------|------|------|------|---|
| <b>Houille</b>                  |       |       |       |       |      |      |      |      |      |   |
| 15124                           | 10487 | 5779  | 4862  | 4532  | 57   | 45   | -    | -    | -    | <b>1. BILAN</b>   |
| 18700                           | 19391 | 13604 | 18424 | 17491 | 1917 | 3131 | 3070 | 2860 | 2384 | Production primaire                                     |
| 1003                            | 584   | 219   | 65    | 78    | 17   | 28   | 6    | 5    | 5    | Importations totales                                    |
| 36826                           | 29230 | 20675 | 24612 | 22146 | 1585 | 3263 | 2831 | 2877 | 2488 | Exportations totales                                    |
| 16371                           | 11454 | 8324  | 12359 | 10430 | 79   | 1977 | 2268 | 2308 | 2014 | Consommation intérieure brute                           |
| 11643                           | 9649  | 7235  | 7051  | 6979  | -    | -    | -    | -    | -    | Cons. des centrales électriques                         |
| 4831                            | 5711  | 4644  | 4546  | 4703  | 312  | 349  | 139  | 121  | 100  | Consommation des cokeries                               |
| 2324                            | 1735  | 1139  | 849   | 752   | 1194 | 745  | 408  | 414  | 339  | Consommation de l'industrie                             |
|                                 |       |       |       |       |      |      |      |      |      | Cons. services & ménages etc.                           |
| <b>2. IMPORTATIONS</b>          |       |       |       |       |      |      |      |      |      |   |
| 3514                            | 2069  | 1167  | 477   | 552   | 574  | 520  | 196  | 175  | 169  | Intra-UE total  |
| 15186                           | 17322 | 12437 | 17247 | 16939 | 1343 | 2611 | 2874 | 2685 | 2215 | Extra-UE total  |
| <i>dont :</i>                   |       |       |       |       |      |      |      |      |      |   |
| 3986                            | 6605  | 3646  | 3333  | 3041  | 327  | 1200 | 676  | 1025 | 723  | USA   |
| 1068                            | 395   | 744   | 1304  | 1456  | 735  | 600  | 386  | 248  | 254  | Pologne   |
| 163                             | 777   | 68    | 102   | 100   | -    | -    | -    | -    | -    | CEI   |
| 2799                            | 3552  | 3053  | 2457  | 2303  | 76   | 100  | -    | 163  | -    | Australie   |
| 6304                            | 864   | 2198  | 2189  | 2053  | 76   | 60   | 202  | 217  | 117  | Afrique du Sud  |
| 3                               | 2033  | 151   | 1396  | 1289  | 332  | 720  | 1558 | 1010 | 1021 | Colombie  |
| <b>3. DONNEES STRUCTURELLES</b> |       |       |       |       |      |      |      |      |      |   |
| 21                              | 9     | 5     | 5     | 5     | -    | -    | -    | -    | -    | Personnel employé au fond<br>(moyenne annuelle en 1000) |
| 19                              | 8     | 4     | 4     | 4     | 5    | 3    | -    | -    | -    | Nombre des sièges en activité<br>(fin d'année)          |
| 4008                            | 2135  | 779   | 693   | 816   | 30   | 20   | 13   | 9    | 8    | Stock auprès des mines<br>(fin d'année)                 |
| <b>Agglomérés de houille</b>    |       |       |       |       |      |      |      |      |      |   |
| 1409                            | 546   | 231   | 194   | 163   | -    | -    | 31   | 30   | 31   | Production  |
| 1463                            | 640   | 359   | 278   | 248   | 9    | -    | 31   | 29   | 24   | Cons. services & ménages etc.                           |
| <b>Coke</b>                     |       |       |       |       |      |      |      |      |      |   |
| 8691                            | 7196  | 5439  | 5500  | 5418  | -    | -    | -    | -    | -    | Production  |
| 10452                           | 7783  | 6221  | 6353  | 5886  | 7    | 29   | -    | -    | -    | Consommation du marché intérieur                        |
| <i>dont :</i>                   |       |       |       |       |      |      |      |      |      |   |
| 2901                            | 2634  | 2308  | 2363  | 2398  | -    | -    | -    | -    | -    | Hauts fourneaux   |
| 6083                            | 4131  | 3167  | 3300  | 2848  | 7    | 29   | -    | -    | -    | Sidérurgie  |
| <b>Lignite et tourbe</b>        |       |       |       |       |      |      |      |      |      |   |
| 1862                            | 2334  | 1030  | 737   | 560   | 2850 | 6377 | 3338 | 3670 | 5650 | Production  |
| 2190                            | 1784  | 975   | 1158  | 980   | 3926 | 3114 | 3017 | 2730 | 2829 | Cons. des centrales électriques                         |
| <b>Briquettes de lignite</b>    |       |       |       |       |      |      |      |      |      |   |
| -                               | -     | -     | -     | -     | 486  | 395  | 253  | 264  | 330  | Production  |
| 132                             | 67    | -     | -     | -     | 483  | 386  | 252  | 276  | 276  | Cons. services & ménages etc.                           |

**Solid fuels**  
**Principal aggregates**

Italia

Luxembourg

| <i>in 1000 t</i>   | 1985  | 1990  | 1997  | 1998  | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 |
|--|-------|-------|-------|-------|-------|------|------|------|------|------|
| <b>Hard coal</b>   |       |       |       |       |       |      |      |      |      |      |
| <b>1. BALANCE</b>  |       |       |       |       |       |      |      |      |      |      |
| Primary production   | -     | 58    | -     | -     | -     | -    | -    | -    | -    | -    |
| Total imports  | 22213 | 20445 | 15297 | 16568 | 17309 | 200  | 197  | 194  | 152  | 153  |
| Gross inland consumption   | 22130 | 21327 | 16006 | 16988 | 17069 | 200  | 197  | 194  | 152  | 153  |
| Consumption in power stations                                    | 8946  | 10724 | 7078  | 8164  | 8378  | 19   | -    | -    | -    | -    |
| Consumption in coking plants                                     | 10140 | 8614  | 6857  | 6834  | 6560  | -    | -    | -    | -    | -    |
| Consumption in industry  | 2623  | 1853  | 1738  | 1895  | 1869  | 178  | 196  | 194  | 152  | 153  |
| Cons. in services & households etc.                              | 170   | 59    | 83    | 3     | 3     | 3    | 1    | -    | -    | -    |
| <b>2. IMPORTS</b>  |       |       |       |       |       |      |      |      |      |      |
| Intra-EU total   | 1778  | 930   | 5     | 3     | 3     | 64   | 35   | 95   | 61   | 63   |
| Extra-EU total   | 20435 | 19515 | 15292 | 16565 | 17306 | 136  | 162  | 99   | 91   | 90   |
| <i>among which :</i>   |       |       |       |       |       |      |      |      |      |      |
| USA  | 9122  | 11013 | 7502  | 4825  | 3653  | -    | -    | -    | -    | -    |
| Poland   | 1880  | 656   | 177   | 136   | 621   | -    | -    | -    | -    | -    |
| CIS  | 199   | 874   | 251   | 126   | 894   | 11   | 24   | -    | -    | -    |
| Australia  | 2230  | 214   | 2404  | 3080  | 3299  | -    | -    | -    | -    | -    |
| South Africa   | 6535  | 4371  | 2938  | 3947  | 3785  | 73   | 138  | 99   | 91   | 90   |
| Colombia   | 190   | 295   | 1209  | 2343  | 1362  | -    | -    | -    | -    | -    |
| <b>3. STRUCTURAL DATA</b>  |       |       |       |       |       |      |      |      |      |      |
| Personnel employed underground<br><i>(annual mean in 1000's)</i> | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    |
| Number of active hard coal mines<br><i>(end of year)</i>         | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    |
| <i>(end of year)</i>   | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    |
| <b>Patent fuel</b>   |       |       |       |       |       |      |      |      |      |      |
| Production   | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    |
| Cons. in services & households etc.                              | -     | -     | -     | -     | -     | 1    | -    | -    | -    | -    |
| <b>Coke</b>  |       |       |       |       |       |      |      |      |      |      |
| Production   | 7410  | 6356  | 5219  | 5192  | 4990  | -    | -    | -    | -    | -    |
| Inland market consumption  | 7267  | 6426  | 5667  | 5551  | 5142  | 1853 | 1447 | 248  | -    | -    |
| <i>among which :</i>   |       |       |       |       |       |      |      |      |      |      |
| Blast furnaces   | 2396  | 2037  | 1795  | 1654  | 1536  | 611  | 556  | 103  | -    | -    |
| Iron & steel industry  | 4355  | 3933  | 3560  | 3338  | 3130  | 1239 | 891  | 145  | -    | -    |
| <b>Lignite and peat</b>  |       |       |       |       |       |      |      |      |      |      |
| Production   | 1970  | 1584  | 102   | 24    | 19    | -    | -    | -    | -    | -    |
| Consumption in power stations                                    | 1898  | 1559  | 90    | 256   | 158   | -    | -    | -    | -    | -    |
| <b>Brown coal briquettes</b>                                     |       |       |       |       |       |      |      |      |      |      |
| Production   | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    |
| Cons. in services & households etc.                              | -     | -     | -     | -     | -     | 39   | 11   | 5    | 4    | 3    |



**Feste Brennstoffe**  
**Hauptaggregate**

Niederland

Österreich

| 1985                         | 1990  | 1997  | 1998  | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 | in 1000 t                           |
|------------------------------|-------|-------|-------|-------|------|------|------|------|------|-------------------------------------|
| <b>Houille</b>               |       |       |       |       |      |      |      |      |      |                                     |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | <b>1. BILANZ</b>                    |
| 11749                        | 17303 | 20317 | 22198 | 19002 | 3599 | 3608 | 3797 | 3741 | 3349 | Förderung                           |
| 1417                         | 2410  | 3522  | 7985  | 7240  | -    | -    | -    | -    | -    | Einführen                           |
| 10342                        | 14235 | 14794 | 14987 | 12089 | 3148 | 4279 | 4072 | 3727 | 3432 | Ausführen                           |
| 4908                         | 8934  | 8799  | 9317  | 7884  | 96   | 1351 | 1320 | 1036 | 909  | Bruttoinlandsverbrauch              |
| 4179                         | 4046  | 4010  | 3866  | 3236  | 2391 | 2444 | 2111 | 2172 | 2179 | Verbrauch der Wärmekraftwerke       |
| 1466                         | 1223  | 1334  | 1297  | 1288  | 385  | 242  | 429  | 323  | 196  | Verbrauch der Kokereien             |
| 43                           | 24    | 43    | 31    | 50    | 264  | 148  | 191  | 193  | 143  | Verbrauch der Industrie             |
|                              |       |       |       |       |      |      |      |      |      | Verbr. d. Dienstlsgew., Haush. usw. |
| 760                          | 833   | 287   | 120   | 54    | 204  | 16   | 38   | 14   | 2    | <b>2. EINFUHREN</b>                 |
| 10989                        | 16470 | 20030 | 22078 | 18948 | 3395 | 3592 | 3766 | 3727 | 3347 | Intra-EU insgesamt                  |
|                              |       |       |       |       |      |      |      |      |      | Extra-EU insgesamt                  |
|                              |       |       |       |       |      |      |      |      |      | <i>darunter:</i>                    |
| 5446                         | 6165  | 4567  | 3274  | 2734  | 522  | 456  | 9    | -    | -    | USA                                 |
| 1272                         | 1129  | 1173  | 2414  | 1607  | 1606 | 1767 | 1584 | 1802 | 1488 | Polen                               |
| 10                           | 31    | 264   | 246   | 345   | 524  | 608  | 8    | 1    | 1    | GUS                                 |
| 2957                         | 5562  | 1812  | 2920  | 2781  | 66   | -    | -    | -    | -    | Australien                          |
| 892                          | 1394  | 4167  | 5524  | 4789  | -    | 6    | -    | -    | -    | Südafrika                           |
| 161                          | 1620  | 4146  | 3708  | 3433  | -    | -    | 13   | -    | -    | Kolumbien                           |
|                              |       |       |       |       |      |      |      |      |      | <b>3. STRUKTURELLE DATEN</b>        |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | Beschäftigte unter Tage             |
|                              |       |       |       |       |      |      |      |      |      | (in 1000)                           |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | Fördernde Schachtanlagen            |
|                              |       |       |       |       |      |      |      |      |      | (am Jahresende)                     |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | Bestände bei den Zechen             |
|                              |       |       |       |       |      |      |      |      |      | (am Jahresende)                     |
| <b>Agglomérés de houille</b> |       |       |       |       |      |      |      |      |      |                                     |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | Erzeugung                           |
| 7                            | 5     | 2     | 2     | -     | -    | -    | -    | 4    | 10   | Verbr. d. Dienstlsgew., Haush. usw. |
| <b>Coke</b>                  |       |       |       |       |      |      |      |      |      |                                     |
| 2958                         | 2736  | 2905  | 2837  | 2327  | 1751 | 1725 | 1566 | 1598 | 1608 | Erzeugung                           |
| 2488                         | 2365  | 2278  | 2217  | 2134  | 2992 | 2460 | 2477 | 2232 | 2192 | Verbrauch des Binnenmarktes         |
|                              |       |       |       |       |      |      |      |      |      | <i>darunter:</i>                    |
| 1019                         | 1000  | 1279  | 1297  | 1264  | 614  | 568  | 650  | 628  | 631  | Hochöfen                            |
| 1406                         | 1155  | 797   | 726   | 661   | 1619 | 1195 | 1388 | 1345 | 1262 | Eisen- und Stahlindustrie           |
| <b>Lignite et tourbe</b>     |       |       |       |       |      |      |      |      |      |                                     |
| -                            | -     | -     | -     | -     | 3081 | 2448 | 1131 | 1140 | 1137 | Förderung                           |
| -                            | -     | -     | -     | -     | 2890 | 2123 | 1215 | 776  | 1403 | Verbrauch der Wärmekraftwerke       |
| <b>Briquettes de lignite</b> |       |       |       |       |      |      |      |      |      |                                     |
| -                            | -     | -     | -     | -     | -    | -    | -    | -    | -    | Erzeugung                           |
| 19                           | 12    | 1     | 1     | 1     | 407  | 231  | 132  | 101  | 106  | Verbr. d. Dienstlsgew., Haush. usw. |

**Solid fuels**  
**Principal aggregates**

Portugal

Suomi/Finland

| <i>in 1000 t</i>   | 1985 | 1990 | 1997 | 1998 | 1999 | 1985 | 1990 | 1997  | 1998 | 1999 |
|--|------|------|------|------|------|------|------|-------|------|------|
| <b>Hard coal</b>   |      |      |      |      |      |      |      |       |      |      |
| <b>1. BALANCE</b>  |      |      |      |      |      |      |      |       |      |      |
| Primary production   | 238  | 281  | -    | -    | -    | -    | -    | -     | -    | -    |
| Total imports  | 1392 | 4669 | 5758 | 5113 | 6080 | 5089 | 6101 | 7033  | 4610 | 3597 |
|  |      |      |      |      |      | 19   | -    | -     | -    | -    |
| Gross inland consumption   | 1049 | 4397 | 5555 | 5099 | 6126 | 5318 | 5648 | 6995  | 5203 | 5255 |
| Consumption in power stations                                    | 377  | 3259 | 4501 | 4154 | 5263 | 3580 | 3732 | 5307  | 3415 | 3372 |
| Consumption in coking plants                                     | 370  | 312  | 467  | 471  | 483  | -    | 711  | 1235  | 1280 | 1267 |
| Consumption in industry  | 316  | 818  | 573  | 474  | 380  | 1210 | 1043 | 318   | 412  | 491  |
| Cons. in services & households etc.                              | 5    | 2    | -    | -    | -    | 46   | 9    | 4     | 4    | 4    |
| <b>2. IMPORTS</b>  |      |      |      |      |      |      |      |       |      |      |
| Intra-EU total   | 178  | 201  | -    | -    | -    | 1    | 253  | 89    | 2    | 33   |
| Extra-EU total   | 1214 | 4468 | 5758 | 5113 | 6080 | 5088 | 5848 | 6944  | 4608 | 3564 |
| <i>among which :</i>   |      |      |      |      |      |      |      |       |      |      |
| USA  | 900  | 1797 | 1531 | 667  | 782  | 1018 | 41   | 596   | 419  | 312  |
| Poland   | 168  | 40   | -    | -    | -    | 2407 | 2609 | 4220  | 2609 | 1639 |
| CIS  | 7    | 54   | -    | -    | 55   | 852  | 1905 | 1277  | 806  | 1482 |
| Australia  | 34   | -    | 242  | 237  | 739  | 404  | -    | -     | -    | -    |
| South Africa   | 104  | 2086 | 1740 | 1816 | 1570 | -    | -    | 310   | 99   | 131  |
| Colombia   | -    | 389  | 1850 | 1892 | 2522 | 347  | 334  | 461   | 186  | -    |
| <b>3. STRUCTURAL DATA</b>  |      |      |      |      |      |      |      |       |      |      |
| Personnel employed underground<br><i>(annual mean in 1000's)</i> | -    | -    | -    | -    | -    | -    | -    | -     | -    | -    |
| Number of active hard coal mines<br><i>(end of year)</i>         | 2    | 1    | -    | -    | -    | -    | -    | -     | -    | -    |
| <i>(end of year)</i>   |      |      |      |      |      |      |      |       |      |      |
| <b>Patent fuel</b>   |      |      |      |      |      |      |      |       |      |      |
| Production   | -    | -    | -    | -    | -    | -    | -    | -     | -    | -    |
| Cons. in services & households etc.                              | -    | -    | -    | -    | -    | -    | -    | -     | -    | -    |
| <b>Coke</b>  |      |      |      |      |      |      |      |       |      |      |
| Production   | 275  | 230  | 340  | 352  | 363  | -    | 487  | 879   | 912  | 900  |
| Inland market consumption  | 421  | 240  | 263  | 238  | 320  | 1172 | 1272 | 1326  | 1361 | 1380 |
| <i>among which :</i>   |      |      |      |      |      |      |      |       |      |      |
| Blast furnaces   | 70   | 58   | 65   | 59   | 63   | 325  | 417  | 560   | 584  | 592  |
| Iron & steel industry  | 246  | 153  | 183  | 160  | 171  | 813  | 850  | 759   | 777  | 788  |
| <b>Lignite and peat</b>  |      |      |      |      |      |      |      |       |      |      |
| Production   | -    | -    | -    | -    | -    | 3265 | 6231 | 10374 | 1675 | 8068 |
| Consumption in power stations                                    | -    | -    | -    | -    | -    | 2154 | 2811 | 6484  | 5244 | 5061 |
| <b>Brown coal briquettes</b>                                     |      |      |      |      |      |      |      |       |      |      |
| Production   | -    | -    | -    | -    | -    | -    | -    | -     | -    | -    |
| Cons. in services & households etc.                              | -    | -    | -    | -    | -    | -    | -    | -     | -    | -    |

**Combustibles solides**  
**Principaux agrégats**

Sverige

United Kingdom

| 1985                         | 1990 | 1997 | 1998 | 1999 | 1985   | 1990   | 1997  | 1998  | 1999  | in 1000 t                         |
|------------------------------|------|------|------|------|--------|--------|-------|-------|-------|-----------------------------------|
| <b>Houille</b>               |      |      |      |      |        |        |       |       |       |                                   |
| 13                           | 11   | -    | -    | -    | 90793  | 89301  | 46981 | 40046 | 36163 | <b>1. BILAN</b>                   |
| 4868                         | 3543 | 3278 | 3038 | 2930 | 12636  | 14721  | 19756 | 21244 | 20758 | Production primaire               |
| 112                          | 2    | 2    | 2    | 2    | 2535   | 2304   | 1147  | 971   | 762   | Importations totales              |
| 4158                         | 3709 | 3162 | 3160 | 3011 | 105740 | 104962 | 63129 | 62674 | 56090 | Exportations totales              |
| 1287                         | 829  | 696  | 712  | 578  | 75655  | 84555  | 46987 | 48510 | 40471 | Consommation intérieure brute     |
| 1620                         | 1515 | 1672 | 1728 | 1766 | 12820  | 11176  | 8143  | 8169  | 8064  | Cons. des centrales électriques   |
| 628                          | 925  | 763  | 724  | 656  | 5717   | 5366   | 3779  | 3073  | 3330  | Consommation des cokeries         |
| 56                           | 65   | 2    | 2    | 2    | 10315  | 5756   | 3237  | 2742  | 3011  | Consommation de l'industrie       |
|                              |      |      |      |      |        |        |       |       |       | Cons. services & ménages etc.     |
| 75                           | 110  | 32   | 27   | 13   | 1265   | 2041   | 386   | 1198  | 247   | <b>2. IMPORTATIONS</b>            |
| 4793                         | 3433 | 3246 | 3012 | 2917 | 11371  | 12680  | 19370 | 20035 | 20511 | Intra-UE total                    |
|                              |      |      |      |      |        |        |       |       |       | Extra-UE total                    |
|                              |      |      |      |      |        |        |       |       |       | <i>dont :</i>                     |
| 1417                         | 881  | 895  | 801  | 548  | 3127   | 5432   | 6950  | 6746  | 3016  | USA                               |
| 1516                         | 732  | 1062 | 787  | 894  | 1383   | 1045   | 700   | -     | 1299  | Pologne                           |
| 409                          | 573  | 267  | 183  | 188  | 3      | 590    | 40    | 20    | 172   | CEI                               |
| 754                          | 636  | 798  | 851  | 1009 | 5551   | 3032   | 4362  | 4610  | 5951  | Australie                         |
| 19                           | -    | -    | -    | -    | 729    | 355    | 2472  | 2463  | 2921  | Afrique du Sud                    |
| 183                          | 108  | -    | -    | 115  | -      | 956    | 2810  | 3820  | 4592  | Colombie                          |
|                              |      |      |      |      |        |        |       |       |       | <b>3. DONNEES STRUCTURELLES</b>   |
| -                            | -    | -    | -    | -    | 132    | 53     | 7     | 6     | 6     | Personnel employé au fond         |
|                              |      |      |      |      |        |        |       |       |       | <i>(moyenne annuelle en 1000)</i> |
| -                            | -    | -    | -    | -    | 141    | 67     | 23    | 21    | 21    | Nombre des sièges en activité     |
|                              |      |      |      |      |        |        |       |       |       | <i>(fin d'année)</i>              |
| -                            | -    | -    | -    | -    | 9616   | 9013   | 4817  | 4565  | 4988  | Stock auprès des mines            |
|                              |      |      |      |      |        |        |       |       |       | <i>(fin d'année)</i>              |
| <b>Agglomérés de houille</b> |      |      |      |      |        |        |       |       |       |                                   |
| -                            | -    | -    | -    | -    | 662    | 485    | 814   | 616   | 635   | Production                        |
| -                            | -    | -    | -    | -    | 687    | 480    | 677   | 599   | 554   | Cons. services & ménages etc.     |
| <b>Coke</b>                  |      |      |      |      |        |        |       |       |       |                                   |
| 1203                         | 1084 | 1160 | 1148 | 1145 | 9276   | 8355   | 6233  | 6215  | 5870  | Production                        |
| 1494                         | 1422 | 1491 | 1458 | 1465 | 9037   | 8292   | 6808  | 6551  | 6703  | Consommation du marché intérieur  |
| 402                          | 456  | 533  | 568  | 592  | 1914   | 2439   | 2623  | 2541  | 2405  | <i>dont :</i>                     |
| 911                          | 745  | 863  | 796  | 778  | 4257   | 4371   | 3896  | 3449  | 3794  | Hauts fourneaux                   |
|                              |      |      |      |      |        |        |       |       |       | Sidérurgie                        |
| <b>Lignite et tourbe</b>     |      |      |      |      |        |        |       |       |       |                                   |
| 372                          | 1036 | 921  | 1145 | 882  | -      | -      | -     | -     | -     | Production                        |
| 370                          | 465  | 493  | 679  | 288  | -      | -      | -     | -     | -     | Cons. des centrales électriques   |
| <b>Briquettes de lignite</b> |      |      |      |      |        |        |       |       |       |                                   |
| -                            | -    | -    | -    | -    | -      | -      | -     | -     | -     | Production                        |
| 1                            | -    | -    | -    | -    | -      | -      | -     | -     | -     | Cons. services & ménages etc.     |



Mineralöl  
Petroleum  
Pétrole

**Petroleum**  
**Principal aggregates**

EU-15

Belgique/België

| <i>in 1000 t</i>                    | 1985   | 1990   | 1997   | 1998    | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  |
|-------------------------------------|--------|--------|--------|---------|--------|-------|-------|-------|-------|-------|
| <b>Crude oil and feedstocks</b>     |        |        |        |         |        |       |       |       |       |       |
| <b>1. BALANCE</b>                   |        |        |        |         |        |       |       |       |       |       |
| Primary production                  | 148480 | 115746 | 155240 | 158803  | 164976 | -     | -     | -     | -     | -     |
| Total imports                       | 429775 | 501691 | 558732 | 581885  | 550562 | 20467 | 29000 | 35913 | 37131 | 35276 |
| Total exports                       | 86904  | 66653  | 95297  | 99410   | 109896 | 165   | 2292  | 2848  | 2551  | 3074  |
|                                     |        |        |        | -4288   | 1288   | 56    | 87    | -56   | -87   | -37   |
| Refinery intake                     | 528170 | 590000 | 661977 | 680331  | 648863 | 20489 | 29581 | 36893 | 38232 | 36119 |
| <b>2. IMPORTS</b>                   |        |        |        |         |        |       |       |       |       |       |
| Intra-EU total                      | 23906  | 43719  | 64822  | 64967   | 63693  | 3314  | 3109  | 6539  | 6328  | 8239  |
| Extra-EU total                      | 405869 | 457972 | 493910 | 516918  | 486869 | 17153 | 25891 | 29374 | 30803 | 27037 |
| <i>by region of origin :</i>        |        |        |        |         |        |       |       |       |       |       |
| OPEC                                | 210242 | 269845 | 260908 | 281499  | 241866 | 7491  | 15097 | 14580 | 16871 | 11332 |
| Near and Middle East                | 95715  | 165417 | 144408 | 191877  | 161348 | 3871  | 12462 | 12749 | 15486 | 9177  |
| Africa                              | 101530 | 137016 | 98928  | 113703  | 103170 | 1049  | 2659  | 179   | 655   | 465   |
| Eastern Europe                      | 38455  | 42266  | 74506  | 75765   | 88387  | 561   | 2458  | 4263  | 4216  | 5777  |
| <i>by country of origin :</i>       |        |        |        |         |        |       |       |       |       |       |
| Algeria                             | 19286  | 21451  | 17107  | 18075   | 17444  | 241   | 292   | 77    | 146   | 224   |
| Nigeria                             | 41062  | 27890  | 27831  | 22336   | 19732  | 2831  | 346   | -     | -     | 136   |
| Saudi Arabia                        | 25515  | 52326  | 89401  | 86809   | 61147  | 1726  | 1804  | 10568 | 10333 | 5677  |
| Kuwait                              | 7574   | 10359  | 9826   | 10876   | 7662   | 51    | 19    | 224   | 691   | 63    |
| United Arab Emirates                | 6115   | 9969   | 305    | 642     | -      | 3     | 1291  | -     | -     | -     |
| Norway                              | 25446  | 52684  | 115229 | 114186  | 107655 | 1398  | 4889  | 9992  | 8762  | 9347  |
| <b>Petroleum products</b>           |        |        |        |         |        |       |       |       |       |       |
| <b>1. BALANCE</b>                   |        |        |        |         |        |       |       |       |       |       |
| Primary production                  | 633    | 359    | 250    | 156     | -      | -     | -     | -     | -     | -     |
| Gross production                    | 522600 | 586002 | 657092 | 674082  | 639837 | 20384 | 29372 | 36644 | 37944 | 35773 |
|                                     |        |        |        | 637212  | 606232 | 19442 | 28093 | 35002 | 36340 | 34326 |
| Total imports                       | 182230 | 194717 | 195725 | 200640  | 204650 | 11615 | 11971 | 13060 | 13760 | 13811 |
| Total exports                       | 142884 | 170198 | 189629 | 193279  | 187182 | 12729 | 16452 | 17481 | 18273 | 18852 |
| Bunkers                             | 28827  | 35297  | 41452  | 42937   | 40967  | 2385  | 4242  | 5257  | 5613  | 4535  |
| Stock changes                       | 5744   | 2971   | -449   | -4061   | 8801   | 484   | 270   | 181   | -460  | 1001  |
| Availability                        | 472648 | 508434 | 549601 | 556914  | 551726 | 16300 | 16910 | 21641 | 22088 | 21765 |
| <b>2. INLAND MARKET CONSUMPTION</b> |        |        |        |         |        |       |       |       |       |       |
| Total consumption                   | 470386 | 508027 | 552337 | 556728* | 554964 | 16288 | 17170 | 21637 | 21851 | 21304 |
| <i>among which:</i>                 |        |        |        |         |        |       |       |       |       |       |
| Non-energy use                      | 56790  | 69693  | 85886  | 83548   | 82332  | 2014  | 2102  | 3517  | 3527  | 3661  |
| Power stations                      | 41720  | 44270  | 40100  | 40378*  | 39228  | 847   | 328   | 267   | 406   | 169   |
| Industry                            | 58465  | 51851  | 48775  | 46186   | 45462  | 2283  | 2216  | 2363  | 2320  | 2278  |
| <i>among which by product:</i>      |        |        |        |         |        |       |       |       |       |       |
| Gas / diesel oil                    | 12278  | 10197  | 11451  | 11607   | 11596  | 342   | 273   | 676   | 615   | 514   |
| Residual fuel oil                   | 34492  | 27509  | 19979  | 18467   | 17485  | 1490  | 1275  | 738   | 745   | 874   |
| <i>among which by sector:</i>       |        |        |        |         |        |       |       |       |       |       |
| Iron & steel industry               | 4285   | 3876   | 3794   | 3758    | 3238   | 133   | 167   | 41    | 63    | 43    |
| Chemical industry                   | 10842  | 10873  | 7397   | 5774    | 4894   | 732   | 947   | 918   | 944   | 808   |
| Non-metallic mineral products       | 9647   | 10944  | 10472  | 10226   | 11665  | 276   | 219   | 318   | 289   | 264   |
| Food, drink, tobacco                | 7984   | 6114   | 4968   | 4834    | 4534   | 489   | 260   | 243   | 182   | 159   |
| Engineering & metal industry        | 6460   | 4422   | 3467   | 3328    | 3342   | 153   | 91    | 48    | 53    | 39    |
| Transport                           | 192265 | 241762 | 275335 | 285851  | 292105 | 5859  | 7389  | 8878  | 9237  | 9237  |
| <i>among which :</i>                |        |        |        |         |        |       |       |       |       |       |
| Motor spirit                        | 100750 | 116391 | 116648 | 117030  | 116245 | 2504  | 2730  | 2537  | 2514  | 2396  |
| Jet fuel                            | 20454  | 26987  | 35039  | 38390   | 40701  | 543   | 927   | 1305  | 1547  | 1511  |
| Diesel oil                          | 68040  | 95011  | 119807 | 126444  | 131455 | 2715  | 3676  | 4696  | 4852  | 5071  |
|                                     |        |        |        | 98421   | 93847  | 5278  | 5135  | 6612  | 6356  | 5940  |
| <i>among which:</i>                 |        |        |        |         |        |       |       |       |       |       |
| Gas oil                             | 94878  | 78927  | 82579  | 81705   | 76674  | 4607  | 4441  | 5570  | 5496  | 5097  |

**Danmark**

**Deutschland**

| 1985                        | 1990 | 1997  | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   | in 1000 t                              |
|-----------------------------|------|-------|-------|-------|--------|--------|--------|--------|--------|--|
| <b>Rohöl und Feedstocks</b> |      |       |       |       |        |        |        |        |        | <b>1. BILANZ</b>                       |
| 2892                        | 5994 | 11360 | 11432 | 14465 | 4168   | 3660   | 2804   | 2934   | 2746   | Primärerzeugung                        |
| 5068                        | 4786 | 4388  | 4776  | 4771  | 83531  | 88060  | 100544 | 109379 | 103933 | Einfuhren insgesamt                    |
| 1077                        | 2778 | 7070  | 8323  | 11025 | 1      | -      | 3583   | 1389   | 1741   | Ausfuhren insgesamt                    |
| -64                         | -18  | 62    | -55   | -120  | 510    | -400   | 1918   | -2364  | 1660   | Bestandsveränderungen                  |
| 6983                        | 7922 | 8627  | 7829  | 8142  | 107713 | 105057 | 112907 | 119039 | 117101 | Raffinerieeinsätze                     |
|                             |      |       |       |       |        |        |        |        |        | <b>2. EINFUHREN</b>                    |
| 453                         | 972  | 6     | 2     | 66    | 3666   | 15061  | 16713  | 19730  | 14454  | Intra-EU insgesamt                     |
| 4615                        | 3814 | 4382  | 4774  | 4705  | 79865  | 72999  | 83831  | 89649  | 89479  | Extra-EU insgesamt                     |
|                             |      |       |       |       |        |        |        |        |        | <i>nach Ursprungsgebiet :</i>          |
| 1455                        | 1694 | -     | -     | -     | 35012  | 36010  | 30953  | 31829  | 28804  | OPEC                                   |
| -                           | 1694 | -     | -     | -     | 7898   | 16646  | 7176   | 13521  | 12954  | Naher und Mittlerer Osten              |
| -                           | -    | -     | -     | -     | 26007  | 23009  | 20710  | 23087  | 21667  | Afrika                                 |
| 744                         | 18   | 163   | 13    | 172   | 3888   | 5347   | 25482  | 28359  | 31930  | Osteuropa                              |
|                             |      |       |       |       |        |        |        |        |        | <i>nach Ursprungsland :</i>            |
| -                           | -    | -     | -     | -     | 4247   | 3494   | 3786   | 5519   | 4188   | Algerien                               |
| 331                         | -    | -     | -     | -     | 9825   | 6127   | 5031   | 2127   | 1161   | Nigeria                                |
| -                           | 450  | -     | -     | -     | 2877   | 5979   | 5928   | 5294   | 4505   | Saudi Arabien                          |
| 1075                        | 1244 | -     | -     | -     | 136    | 342    | 624    | 827    | 748    | Kuweit                                 |
| -                           | -    | -     | -     | -     | 261    | 745    | 48     | 2      | -      | Vereinigte Arabische Emirate           |
| -                           | 1447 | 4168  | 4708  | 4424  | 3405   | 6603   | 21927  | 22220  | 20783  | Norwegen                               |
| <b>Mineralölerzeugnisse</b> |      |       |       |       |        |        |        |        |        | <b>1. BILANZ</b>                       |
| -                           | -    | -     | -     | -     | -      | -      | -      | -      | -      | Primärerzeugung                        |
| 6939                        | 7848 | 8719  | 7800  | 8110  | 106418 | 105863 | 111070 | 117200 | 115077 | Bruttoerzeugung                        |
| 6651                        | 7546 | 8377  | 7504  | 7822  | 100819 | 101475 | 104716 | 110564 | 108434 | Nettoerzeugung                         |
| 6456                        | 3758 | 6614  | 6795  | 5995  | 48272  | 45827  | 49302  | 44727  | 40522  | Einfuhren insgesamt                    |
| 2238                        | 2642 | 4160  | 3126  | 3906  | 14490  | 14834  | 12666  | 15190  | 16664  | Ausfuhren insgesamt                    |
| 419                         | 982  | 1509  | 1400  | 1316  | 3547   | 2553   | 2207   | 2097   | 2139   | Bunker                                 |
| 14                          | 317  | 223   | -308  | 695   | 806    | 2972   | -1227  | -508   | 2503   | Bestandsveränderungen                  |
| 10327                       | 7997 | 9545  | 9465  | 9290  | 112283 | 119228 | 127823 | 128171 | 123481 | Verfügbar                              |
|                             |      |       |       |       |        |        |        |        |        | <b>2. VERBRAUCH DES INLANDSMARKTES</b> |
| 10337                       | 8074 | 9524  | 9275  | 9272  | 112210 | 119148 | 127486 | 127527 | 123515 | Verbrauch insgesamt                    |
|                             |      |       |       |       |        |        |        |        |        | <i>darunter :</i>                      |
| 374                         | 323  | 330   | 297   | 313   | 15061  | 19417  | 21774  | 22809  | 22338  | Nichtenergetischer Verbrauch           |
| 362                         | 264  | 1704  | 1562  | 1495  | 2711   | 2912   | 1342   | 1293   | 1229   | Wärme- und Kälteerzeugung              |
| 1746                        | 1098 | 889   | 875   | 862   | 9518   | 8403   | 7319   | 6804   | 6108   | Industrie                              |
|                             |      |       |       |       |        |        |        |        |        | <i>darunter nach Erzeugnissen :</i>    |
| 640                         | 499  | 372   | 367   | 385   | 3139   | 2831   | 3197   | 2853   | 2716   | Dieselmotoren u. Dieselmotoren         |
| 788                         | 452  | 289   | 292   | 218   | 5195   | 4375   | 2944   | 2769   | 2348   | Rückstandsheizöl                       |
|                             |      |       |       |       |        |        |        |        |        | <i>darunter nach Bereich :</i>         |
| 64                          | 52   | 7     | 4     | 4     | 931    | 1084   | 1486   | 1458   | 1188   | Eisen- und Stahlindustrie              |
| 161                         | 85   | 53    | 54    | 30    | 979    | 1752   | 253    | 139    | 95     | Chemie                                 |
| 520                         | 319  | 298   | 288   | 284   | 1431   | 1432   | 1307   | 1379   | 1379   | Steine, Erden, Glas, Keramik           |
| 451                         | 248  | 199   | 206   | 204   | 1463   | 1160   | 1026   | 1012   | 834    | Nahrungs- und Genussmittel             |
| 212                         | 145  | 71    | 71    | 78    | 1971   | 1401   | 1103   | 901    | 811    | Maschinenbau u. Metallvererb.          |
| 3513                        | 4364 | 4618  | 4609  | 4719  | 45134  | 55700  | 60293  | 61427  | 63442  | Verkehr                                |
|                             |      |       |       |       |        |        |        |        |        | <i>darunter :</i>                      |
| 1494                        | 1598 | 1977  | 2016  | 2008  | 25940  | 31053  | 30028  | 30080  | 30050  | Motorenbenzin                          |
| 564                         | 679  | 793   | 805   | 859   | 4052   | 5481   | 6235   | 6450   | 6818   | Turbinenkraftstoffe                    |
| 1335                        | 1989 | 1820  | 1746  | 1809  | 15126  | 19161  | 23968  | 24834  | 26511  | Dieselmotoren                          |
| 4323                        | 2025 | 1928  | 1882  | 1840  | 38209  | 30531  | 35442  | 34038  | 29325  | Dienstleistungen & Haushalte usw.      |
|                             |      |       |       |       |        |        |        |        |        | <i>darunter :</i>                      |
| 3156                        | 1740 | 1795  | 1763  | 1730  | 35900  | 29201  | 33880  | 32610  | 27933  | Heizöl                                 |

**Petroleum**  
**Principal aggregates**

**Ellada**

**España**

| <i>in 1000 t</i>                    | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Crude oil and feedstocks</b>     |       |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE</b>                   |       |       |       |       |       |       |       |       |       |       |
| Primary production                  | 1307  | 830   | 465   | 315   | 16    | 2183  | 795   | 371   | 529   | 299   |
| Total imports                       | 11265 | 15890 | 18550 | 19206 | 17287 | 44284 | 53268 | 56636 | 60679 | 58911 |
| Total exports                       | 749   | 1233  | 213   | -     | 116   | -     | -     | -     | -     | -     |
|                                     |       |       |       | -290  | 187   | -766  | -542  | -467  | -392  | 529   |
| Refinery intake                     | 12130 | 16549 | 20717 | 21118 | 18979 | 45881 | 53757 | 57581 | 62291 | 61297 |
| <b>2. IMPORTS</b>                   |       |       |       |       |       |       |       |       |       |       |
| Intra-EU total                      | -     | -     | -     | -     | -     | 374   | 1933  | 4241  | 3574  | 4176  |
| Extra-EU total                      | 11265 | 15890 | 18550 | 19206 | 17287 | 43910 | 51335 | 52395 | 57105 | 54735 |
| <i># by region of origin :</i>      |       |       |       |       |       |       |       |       |       |       |
| OPEC                                | 8476  | 13314 | 15636 | 17627 | 15077 | 25661 | 30528 | 34705 | 37710 | 34085 |
| Near and Middle East                | 4963  | 9737  | 13814 | 16140 | 13787 | 12187 | 13755 | 17847 | 21947 | 18524 |
| Africa                              | 4052  | 3814  | 99    | 1376  | 1322  | 5025  | 19169 | 15921 | 20541 | 21828 |
| Eastern Europe                      | 2209  | 988   | 2583  | 1179  | 1739  | 1230  | 4876  | 4197  | 5414  | 6210  |
| <i>by country of origin :</i>       |       |       |       |       |       |       |       |       |       |       |
| Algeria                             | 609   | 434   | -     | -     | -     | 2616  | 1738  | 1161  | 1039  | 1485  |
| Nigeria                             | -     | -     | -     | -     | -     | 3863  | 9129  | 9723  | 7865  | 8679  |
| Saudi Arabia                        | 3163  | 1412  | 5556  | 7183  | 5434  | 681   | 3146  | 9058  | 9400  | 6310  |
| Kuwait                              | 247   | -     | -     | -     | -     | 107   | 177   | -     | 14    | -     |
| United Arab Emirates                | -     | -     | -     | 18    | -     | 1188  | 1369  | -     | -     | -     |
| Norway                              | -     | -     | -     | -     | -     | 279   | -     | 736   | 273   | 266   |
| <b>Petroleum products</b>           |       |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE</b>                   |       |       |       |       |       |       |       |       |       |       |
| Primary production                  | 15    | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Gross production                    | 12019 | 16442 | 20624 | 21026 | 18894 | 45320 | 52887 | 57056 | 61657 | 60841 |
|                                     |       |       |       | 20129 | 18019 | 42940 | 49701 | 53093 | 57677 | 56840 |
| Total imports                       | 3773  | 5899  | 3401  | 3389  | 4208  | 5183  | 8062  | 13544 | 15576 | 16991 |
| Total exports                       | 3743  | 6152  | 3518  | 3120  | 3540  | 10316 | 12274 | 7664  | 8879  | 6926  |
| Bunkers                             | 1139  | 2612  | 3218  | 3582  | 3190  | 2700  | 3916  | 5865  | 6185  | 6033  |
| Stock changes                       | -44   | -80   | -316  | -421  | 665   | 390   | -53   | -12   | -775  | -969  |
| Availability                        | 10485 | 12107 | 14257 | 14526 | 14704 | 35013 | 41257 | 51733 | 55887 | 58334 |
| <b>2. INLAND MARKET CONSUMPTION</b> |       |       |       |       |       |       |       |       |       |       |
| Total consumption                   | 10439 | 12268 | 14392 | 14890 | 14866 | 34928 | 41202 | 50878 | 55150 | 57476 |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |       |
| Non-energy use                      | 538   | 514   | 486   | 412   | 441   | 4861  | 5607  | 7575  | 8748  | 8532  |
| Power stations                      | 1705  | 1831  | 2017  | 1955  | 1945  | 2057  | 2260  | 2826  | 3419  | 5193  |
| Industry                            | 1465  | 1737  | 2174  | 2138  | 1995  | 6729  | 6041  | 6942  | 6946  | 5881  |
| <i>among which by product:</i>      |       |       |       |       |       |       |       |       |       |       |
| Gas / diesel oil                    | 246   | 354   | 500   | 525   | 560   | 382   | 442   | 700   | 900   | 925   |
| Residual fuel oil                   | 1146  | 1152  | 1045  | 928   | 769   | 5184  | 3661  | 2600  | 2531  | 1862  |
| <i>among which by sector:</i>       |       |       |       |       |       |       |       |       |       |       |
| Iron & steel industry               | 107   | 142   | 39    | 46    | 49    | 595   | 408   | 520   | 537   | 425   |
| Chemical industry                   | 35    | 145   | 196   | 242   | 149   | 1616  | 1179  | 1230  | 1090  | 772   |
| Non-metallic mineral products       | 253   | 310   | 537   | 428   | 412   | 1375  | 2230  | 3037  | 3013  | 2532  |
| Food, drink, tobacco                | 247   | 274   | 281   | 310   | 264   | 1144  | 924   | 790   | 682   | 587   |
| Engineering & metal industry        | -     | -     | 24    | 32    | 33    | 335   | 243   | 392   | 387   | 394   |
| Transport                           | 4540  | 5640  | 6519  | 7085  | 7243  | 14406 | 21438 | 27003 | 29401 | 30830 |
| <i>among which :</i>                |       |       |       |       |       |       |       |       |       |       |
| Motor spirit                        | 1744  | 2381  | 2985  | 3106  | 3165  | 5884  | 8156  | 8980  | 9018  | 8938  |
| Jet fuel                            | 1148  | 1231  | 1156  | 1169  | 1250  | 1911  | 2391  | 3543  | 3858  | 4087  |
| Diesel oil                          | 1488  | 1761  | 2010  | 2245  | 2217  | 6162  | 10465 | 14100 | 16215 | 17500 |
|                                     |       |       |       | 3287  | 3242  | 6621  | 5804  | 6464  | 6498  | 6885  |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |       |
| Gas oil                             | 1833  | 2294  | 2961  | 3084  | 3055  | 4417  | 3149  | 4290  | 4016  | 4305  |



# Pétrole Principaux agrégats

France

Ireland

| 1985                              | 1990  | 1997  | 1998  | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 | en 1000 t                                  |
|-----------------------------------|-------|-------|-------|-------|------|------|------|------|------|--|
| <b>Pétrole brut et feedstocks</b> |       |       |       |       |      |      |      |      |      |  |
| 2642                              | 3024  | 2132  | 1960  | 1795  | -    | -    | -    | -    | -    | <b>1. BILAN</b>                            |
| 75656                             | 75573 | 88284 | 90443 | 82145 | 1351 | 2006 | 2909 | 3148 | 2848 | Production primaire                        |
| 109                               | 299   | 1231  | 1391  | 1344  | 104  | -    | -    | -    | -    | Importations totales                       |
| 322                               | -412  | -271  | -515  | -307  | 62   | -166 | 11   | -114 | -27  | Exportations totales                       |
| 79914                             | 78859 | 91215 | 94537 | 86275 | 1335 | 1732 | 2921 | 3177 | 2795 | Variations de stocks                       |
|                                   |       |       |       |       |      |      |      |      |      | Entrées en raffineries                     |
| 5970                              | 6572  | 13692 | 11833 | 13035 | -    | 1741 | 23   | 101  | 141  | <b>2. IMPORTATIONS</b>                     |
| 69686                             | 69001 | 74592 | 78610 | 69110 | 1351 | 265  | 2886 | 3047 | 2707 | Intra-UE total                             |
| 39363                             | 43021 | 42116 | 49357 | 42158 | 16   | -    | -    | -    | -    | Extra-UE total                             |
| 20358                             | 32171 | 29533 | 39327 | 33589 | -    | -    | -    | -    | -    | <i>par région de provenance :</i>          |
| 16703                             | 21024 | 11766 | 15840 | 11949 | -    | -    | -    | -    | -    | OPEP                                       |
| 4249                              | 4997  | 8676  | 5665  | 7821  | -    | -    | -    | -    | -    | Proche et Moyen-Orient                     |
| 3576                              | 3046  | 3883  | 3446  | 2952  | -    | -    | -    | -    | -    | Afrique                                    |
| 8083                              | 3111  | 4557  | 6249  | 4867  | -    | -    | -    | -    | -    | Europe Orientale                           |
| 6152                              | 15225 | 19316 | 18108 | 15069 | 16   | -    | -    | -    | -    | <i>par pays de provenance :</i>            |
| 827                               | -     | 869   | 843   | 1744  | -    | -    | -    | -    | -    | Algérie                                    |
| 2233                              | 1929  | -     | 557   | -     | -    | -    | -    | -    | -    | Nigéria                                    |
| 4332                              | 5856  | 18027 | 17778 | 14843 | -    | 265  | 2886 | 3047 | 2707 | Arabie Saoudite                            |
|                                   |       |       |       |       |      |      |      |      |      | Koweït                                     |
|                                   |       |       |       |       |      |      |      |      |      | Emirats Arabes Unis                        |
|                                   |       |       |       |       |      |      |      |      |      | Norvège                                    |
| <b>Produits pétroliers</b>        |       |       |       |       |      |      |      |      |      |  |
| 602                               | 353   | 250   | 61    | -     | -    | -    | -    | -    | -    | <b>1. BILAN</b>                            |
| 79372                             | 78333 | 90968 | 93673 | 83050 | 1296 | 1719 | 2908 | 3163 | 2831 | Production primaire                        |
| 74988                             | 73597 | 85410 | 88079 | 77700 | 1268 | 1660 | 2831 | 3075 | 2752 | Production brute                           |
| 16793                             | 24446 | 19121 | 23061 | 26917 | 3303 | 3682 | 5121 | 5541 | 6557 | Production nette                           |
| 11719                             | 14118 | 18324 | 19662 | 17994 | 504  | 698  | 1356 | 1288 | 1133 | Importations totales                       |
| 2467                              | 2614  | 3028  | 2955  | 2985  | 30   | 18   | 151  | 158  | 172  | Exportations totales                       |
| 1510                              | 655   | -476  | -510  | 1487  | 54   | -171 | -121 | -9   | 29   | Soutes                                     |
| 78011                             | 80543 | 81223 | 84702 | 81610 | 4091 | 4455 | 6324 | 7161 | 8018 | Variations de stocks                       |
|                                   |       |       |       |       |      |      |      |      |      | Disponibilités                             |
| 75444                             | 79677 | 85649 | 87592 | 88219 | 3929 | 4369 | 6488 | 7108 | 8042 | <b>2. CONSOMMATION DU MARCHÉ INTERIEUR</b> |
| 9377                              | 11047 | 16378 | 14468 | 14618 | 186  | 254  | 401  | 310  | 344  | Total de la consommation                   |
| 1232                              | 1980  | 1220  | 1929  | 1746  | 564  | 345  | 829  | 1138 | 1419 | <i>dont :</i>                              |
| 9901                              | 7759  | 5984  | 5343  | 5146  | 950  | 728  | 743  | 749  | 809  | Usages non énergétiques                    |
| 2468                              | 1596  | 1632  | 1480  | 1503  | 373  | 143  | 166  | 168  | 179  | Centrales électriques                      |
| 4858                              | 3363  | 2701  | 2307  | 1803  | 465  | 494  | 462  | 456  | 486  | Industrie                                  |
| 406                               | 359   | 155   | 168   | 111   | -    | 6    | 7    | 7    | 5    | <i>dont par produit:</i>                   |
| 2112                              | 1515  | 653   | 689   | 391   | 123  | 93   | 101  | 109  | 128  | Gasoil et fuel-oil fluide                  |
| 974                               | 1443  | 755   | 1212  | 1673  | 90   | 27   | 34   | 32   | 46   | Fuel-oil résiduel                          |
| 1403                              | 1032  | 770   | 875   | 595   | 236  | 128  | 163  | 158  | 167  | <i>dont par secteur:</i>                   |
| 1007                              | 419   | 238   | 312   | 298   | 14   | 27   | 66   | 67   | 72   | Sidérurgie                                 |
| 31763                             | 39926 | 44765 | 47243 | 48199 | 1630 | 1902 | 2837 | 3200 | 3573 | Chimie                                     |
| 17999                             | 18225 | 14628 | 14554 | 14483 | 842  | 885  | 1176 | 1307 | 1414 | Prod. minéraux non métalliques             |
| 2591                              | 3738  | 4995  | 5888  | 6278  | 201  | 355  | 422  | 436  | 515  | Alimentation, boissons, tabac              |
| 11080                             | 17908 | 25030 | 26603 | 27212 | 564  | 656  | 1210 | 1429 | 1614 | Fabrications métalliques                   |
| 23011                             | 18804 | 17173 | 18484 | 18368 | 593  | 1140 | 1678 | 1711 | 1897 | Transport                                  |
| 18337                             | 14906 | 14160 | 15039 | 14924 | 346  | 865  | 1074 | 985  | 1040 | <i>dont :</i>                              |
|                                   |       |       |       |       |      |      |      |      |      | Essences moteur                            |
|                                   |       |       |       |       |      |      |      |      |      | Carburéacteurs                             |
|                                   |       |       |       |       |      |      |      |      |      | Gasoil routier                             |
|                                   |       |       |       |       |      |      |      |      |      | Services & ménages etc.                    |
|                                   |       |       |       |       |      |      |      |      |      | <i>dont :</i>                              |
|                                   |       |       |       |       |      |      |      |      |      | Gasoil                                     |

**Petroleum**  
**Principal aggregates**

Italia

Luxembourg

| <i>in 1000 t</i>                    | 1985  | 1990  | 1997  | 1998   | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 |
|-------------------------------------|-------|-------|-------|--------|-------|------|------|------|------|------|
| <b>Crude oil and feedstocks</b>     |       |       |       |        |       |      |      |      |      |      |
| <b>1. BALANCE</b>                   |       |       |       |        |       |      |      |      |      |      |
| Primary production                  | 2408  | 4678  | 5948  | 5622   | 4998  | -    | -    | -    | -    | -    |
| Total imports                       | 74918 | 86278 | 87658 | 91925  | 87931 | -    | -    | -    | -    | -    |
| Total exports                       | 16    | 2565  | 416   | 408    | -     | -    | -    | -    | -    | -    |
|                                     |       |       |       | -88    | 103   | -    | -    | -    | -    | -    |
| Refinery intake                     | 79501 | 91260 | 97293 | 100709 | 95116 | -    | -    | -    | -    | -    |
| <b>2. IMPORTS</b>                   |       |       |       |        |       |      |      |      |      |      |
| Intra-EU total                      | 456   | 799   | 1145  | 1226   | 1105  | -    | -    | -    | -    | -    |
| Extra-EU total                      | 74462 | 85479 | 86513 | 90699  | 86826 | -    | -    | -    | -    | -    |
| <i># by region of origin :</i>      |       |       |       |        |       |      |      |      |      |      |
| OPEC                                | 44269 | 58676 | 59213 | 62374  | 54102 | -    | -    | -    | -    | -    |
| Near and Middle East                | 19525 | 29770 | 28152 | 35110  | 31797 | -    | -    | -    | -    | -    |
| Africa                              | 30661 | 41609 | 33980 | 37807  | 31893 | -    | -    | -    | -    | -    |
| Eastern Europe                      | 8835  | 6167  | 12545 | 13724  | 18117 | -    | -    | -    | -    | -    |
| <i>by country of origin :</i>       |       |       |       |        |       |      |      |      |      |      |
| Algeria                             | 3130  | 4716  | 2042  | 2134   | 2733  | -    | -    | -    | -    | -    |
| Nigeria                             | 7123  | 1292  | 2242  | 1669   | 1283  | -    | -    | -    | -    | -    |
| Saudi Arabia                        | 1668  | 10193 | 13839 | 13081  | 8343  | -    | -    | -    | -    | -    |
| Kuwait                              | 1143  | 1620  | 4     | -      | 128   | -    | -    | -    | -    | -    |
| United Arab Emirates                | 601   | 2099  | -     | -      | -     | -    | -    | -    | -    | -    |
| Norway                              | 117   | 131   | 2894  | 3746   | 4274  | -    | -    | -    | -    | -    |
| <b>Petroleum products</b>           |       |       |       |        |       |      |      |      |      |      |
| <b>1. BALANCE</b>                   |       |       |       |        |       |      |      |      |      |      |
| Primary production                  | -     | -     | -     | -      | -     | -    | -    | -    | -    | -    |
| Gross production                    | 78236 | 90425 | 96346 | 99797  | 94039 | -    | -    | -    | -    | -    |
|                                     |       |       |       | 94515  | 90790 | -    | -    | -    | -    | -    |
| Total imports                       | 19148 | 23613 | 21787 | 21629  | 19699 | 1075 | 1610 | 1874 | 2016 | 2069 |
| Total exports                       | 12059 | 16923 | 20611 | 22476  | 20078 | 22   | 13   | 5    | 16   | 18   |
| Bunkers                             | 3518  | 2743  | 2455  | 2700   | 2485  | -    | -    | -    | -    | -    |
| Stock changes                       | 992   | -1158 | 759   | -505   | 49    | -17  | -11  | 8    | -35  | 46   |
| Availability                        | 75956 | 85124 | 91400 | 86419  | 85615 | 1036 | 1586 | 1877 | 1965 | 2097 |
| <b>2. INLAND MARKET CONSUMPTION</b> |       |       |       |        |       |      |      |      |      |      |
| Total consumption                   | 75539 | 84921 | 90824 | 86311  | 85597 | 1027 | 1582 | 1882 | 1960 | 2094 |
| <i>among which:</i>                 |       |       |       |        |       |      |      |      |      |      |
| Non-energy use                      | 6467  | 8219  | 12978 | 9807   | 8923  | 20   | 23   | 15   | 18   | 22   |
| Power stations                      | 17027 | 22503 | 24307 | 22903  | 19839 | 5    | 7    | -    | -    | -    |
| Industry                            | 9419  | 9227  | 7114  | 5818   | 7812  | 130  | 277  | 101  | 80   | 85   |
| <i>among which by product:</i>      |       |       |       |        |       |      |      |      |      |      |
| Gas / diesel oil                    | 554   | 389   | 310   | 424    | 408   | 45   | 34   | 58   | 60   | 56   |
| Residual fuel oil                   | 6311  | 4694  | 3178  | 2963   | 4184  | 76   | 238  | 41   | 7    | 5    |
| <i>among which by sector:</i>       |       |       |       |        |       |      |      |      |      |      |
| Iron & steel industry               | 545   | 86    | 103   | 88     | 97    | 23   | 213  | 41   | 18   | 21   |
| Chemical industry                   | 2692  | 2781  | 2230  | 601    | 1153  | 60   | 38   | 8    | 8    | 7    |
| Non-metallic mineral products       | 3068  | 3448  | 2671  | 1985   | 3321  | -    | -    | 10   | 10   | 10   |
| Food, drink, tobacco                | 583   | 457   | 332   | 335    | 731   | 12   | 4    | 5    | 4    | 5    |
| Engineering & metal industry        | 1070  | 811   | 561   | 636    | 801   | -    | -    | -    | -    | -    |
| Transport                           | 26235 | 31649 | 36468 | 38647  | 38733 | 575  | 973  | 1419 | 1503 | 1653 |
| <i>among which :</i>                |       |       |       |        |       |      |      |      |      |      |
| Motor spirit                        | 11682 | 13084 | 17351 | 17880  | 17559 | 303  | 412  | 539  | 541  | 550  |
| Jet fuel                            | 1713  | 1823  | 2639  | 3089   | 3187  | 72   | 128  | 244  | 275  | 323  |
| Diesel oil                          | 11880 | 15400 | 14948 | 16138  | 16623 | 193  | 429  | 635  | 685  | 778  |
|                                     |       |       |       | 9132   | 10286 | 297  | 302  | 347  | 359  | 334  |
| <i>among which:</i>                 |       |       |       |        |       |      |      |      |      |      |
| Gas oil                             | 13000 | 10049 | 7412  | 7012   | 7284  | 285  | 291  | 328  | 344  | 323  |

Niederland

Österreich

| 1985                              | 1990  | 1997  | 1998  | 1999  | 1985 | 1990  | 1997  | 1998   | 1999  | in 1000 t                              |
|-----------------------------------|-------|-------|-------|-------|------|-------|-------|--------|-------|--|
| <b>Pétrole brut et feedstocks</b> |       |       |       |       |      |       |       |        |       |  |
| 4069                              | 3976  | 2930  | 2661  | 2535  | 1161 | 1190  | 996   | 983    | 1023  | <b>1. BILANZ</b>                       |
| 39536                             | 49012 | 60639 | 62053 | 59251 | 6714 | 7814  | 9135  | 9097   | 8440  | Primärerzeugung                        |
| 1450                              | 1312  | 515   | 342   | 307   | -    | -     | 25    | -      | 53    | Einführen insgesamt                    |
| 243                               | 95    | 342   | 153   | -187  | 166  | -143  | 58    | -172   | 65    | Ausführen insgesamt                    |
| 55808                             | 68240 | 80040 | 80816 | 77173 | 8049 | 8818  | 10324 | 9895   | 9547  | Bestandsveränderungen                  |
|                                   |       |       |       |       |      |       |       |        |       | Raffinerieeinsätze                     |
| 2708                              | 4453  | 9457  | 9714  | 10477 | 26   | 121   | 81    | 184    | 277   | <b>2. EINFUHREN</b>                    |
| 36828                             | 44559 | 51182 | 52339 | 48774 | 6688 | 7693  | 9054  | 8913   | 8163  | Intra-EU insgesamt                     |
| 20521                             | 34861 | 34808 | 37410 | 33685 | 4234 | 5335  | 6322  | 5904   | 5223  | Extra-EU insgesamt                     |
| 12976                             | 27653 | 22118 | 32619 | 28906 | 1191 | 1459  | 1395  | 2521   | 2363  | nach Ursprungsgebiet :                 |
| 8018                              | 9153  | 5731  | 4910  | 4265  | 3243 | 4499  | 4094  | 3713   | 3257  | OPEC                                   |
| 2179                              | 2490  | 2750  | 1408  | 3235  | 1199 | 1496  | 1307  | 2653   | 2454  | Naher und Mittlerer Osten              |
|                                   |       |       |       |       |      |       |       |        |       | Afrika                                 |
| 2550                              | 3679  | 3801  | 4351  | 4035  | 687  | 1516  | 1468  | 888    | 927   | Osteuropa                              |
| 2875                              | 2508  | 1874  | 384   | 158   | 1013 | 996   | 1385  | 994    | 695   | nach Ursprungsland :                   |
| 3181                              | 7816  | 16024 | 14967 | 11560 | 474  | 183   | 1214  | 903    | 515   | Algerien                               |
| 2899                              | 4689  | 6561  | 7603  | 4979  | -    | -     | -     | -      | -     | Nigeria                                |
| 812                               | 1572  | 76    | -     | -     | -    | -     | 181   | -      | -     | Saudi Arabien                          |
| 2657                              | 4389  | 12918 | 11755 | 10633 | -    | -     | -     | -      | -     | Kuweit                                 |
|                                   |       |       |       |       |      |       |       |        |       | Vereinigte Arabische Emirate           |
|                                   |       |       |       |       |      |       |       |        |       | Norwegen                               |
| <b>Produits pétroliers</b>        |       |       |       |       |      |       |       |        |       |  |
| -                                 | -     | -     | -     | -     | -    | -     | -     | -      | -     | <b>1. BILANZ</b>                       |
| 55527                             | 67905 | 79497 | 80066 | 76264 | 8106 | 8783  | 10328 | 9751   | 9427  | Primärerzeugung                        |
| 53072                             | 64500 | 75803 | 76547 | 73189 | 7753 | 8405  | 9649  | 9075   | 8794  | Bruttoerzeugung                        |
| 36944                             | 39465 | 36498 | 34995 | 37364 | 2626 | 2350  | 3034  | 3948   | 4316  | Nettoerzeugung                         |
| 50952                             | 56424 | 60333 | 60433 | 59693 | 845  | 369   | 1302  | 1507   | 1529  | Einführen insgesamt                    |
| 8947                              | 11202 | 12536 | 12638 | 13063 | -    | -     | -     | -      | -     | Ausführen insgesamt                    |
| 549                               | 206   | -379  | -6    | 1545  | -108 | -209  | -19   | 43     | -112  | Bunker                                 |
| 17484                             | 20054 | 22333 | 22248 | 23508 | 9426 | 10177 | 11362 | 11559  | 11469 | Bestandsveränderungen                  |
|                                   |       |       |       |       |      |       |       |        |       | Verfügbar                              |
| 18099                             | 20263 | 22372 | 22236 | 23427 | 9409 | 10097 | 11195 | 11910* | 11454 | <b>2. VERBRAUCH DES INLANDSMARKTES</b> |
| 5871                              | 6894  | 6271  | 6029  | 6556  | 1288 | 1394  | 1351  | 1881   | 1324  | Verbrauch insgesamt                    |
| 715                               | 694   | 777   | 739   | 1370  | 347  | 467   | 578   | 808*   | 714   | darunter :                             |
| 1472                              | 1222  | 938   | 999   | 750   | 986  | 880   | 764   | 928    | 802   | Nichtenergetischer Verbrauch           |
|                                   |       |       |       |       |      |       |       |        |       | Wärmeleistungswerke                    |
| 317                               | 386   | 202   | 207   | 224   | -    | -     | -     | 167    | 175   | Industrie                              |
| 193                               | 388   | 53    | 60    | 45    | 930  | 829   | 716   | 606    | 531   | darunter nach Erzeugnissen :           |
| 37                                | 5     | 5     | 5     | 3     | 88   | 126   | 114   | 258    | 180   | Dieselmotoren u. Destillat-Heizöl      |
| 1129                              | 843   | 674   | 727   | 476   | 104  | 80    | 52    | 48     | 32    | Rückstandsheizöl                       |
| 84                                | 110   | 50    | 52    | 42    | 122  | 188   | 216   | 128    | 124   | darunter nach Bereich :                |
| 65                                | 58    | 25    | 25    | 35    | 168  | 81    | 79    | 61     | 60    | Eisen- und Stahlindustrie              |
| 64                                | 43    | 20    | 22    | 18    | 54   | 36    | 67    | 54     | 76    | Chemie                                 |
| 8391                              | 9859  | 12970 | 13079 | 13209 | 4163 | 4990  | 5958  | 5685   | 5829  | Steine, Erden, Glas, Keramik           |
| 3394                              | 3452  | 4145  | 4112  | 4144  | 2408 | 2561  | 2094  | 2123   | 2021  | Nahrungs- und Genußmittel              |
| 1201                              | 1566  | 2918  | 3175  | 3299  | 211  | 315   | 511   | 538    | 528   | Maschinenbau u. Metallvererb.          |
| 2992                              | 3933  | 5170  | 5067  | 5122  | 1512 | 2093  | 3309  | 3020   | 3276  | Verkehr                                |
| 1642                              | 1593  | 1416  | 1390  | 1542  | 2204 | 2132  | 2366  | 2497   | 2601  | darunter :                             |
| 862                               | 1378  | 1228  | 1174  | 1370  | 1053 | 1247  | 1873  | 2250   | 2295  | Motorenbenzin                          |
|                                   |       |       |       |       |      |       |       |        |       | Turbinenkraftstoffe                    |
|                                   |       |       |       |       |      |       |       |        |       | Dieselmotoren                          |
|                                   |       |       |       |       |      |       |       |        |       | Dienstleistungen & Haushalte usw.      |
|                                   |       |       |       |       |      |       |       |        |       | darunter :                             |
|                                   |       |       |       |       |      |       |       |        |       | Heizöl                                 |

**Petroleum**  
**Principal aggregates**

**Portugal**

**Suomi/Finland**

| <i>in 1000 t</i>                    | 1985 | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|-------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Crude oil and feedstocks</b>     |      |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE</b>                   |      |       |       |       |       |       |       |       |       |       |
| Primary production                  | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Total imports                       | 7193 | 11189 | 13480 | 13919 | 13807 | 9828  | 8713  | 10129 | 11931 | 11378 |
| Total exports                       | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     |
|                                     |      |       |       | 220   | 346   | 160   | 548   | 92    | 134   | 64    |
| Refinery intake                     | 7263 | 10984 | 13141 | 14186 | 13594 | 10498 | 10479 | 11612 | 13370 | 13145 |
| <b>2. IMPORTS</b>                   |      |       |       |       |       |       |       |       |       |       |
| Intra-EU total                      | 127  | 371   | 947   | 1393  | 1641  | 560   | 1092  | 2746  | 3184  | 3162  |
| Extra-EU total                      | 7066 | 10818 | 12533 | 12526 | 12166 | 9268  | 7621  | 7383  | 8747  | 8216  |
| <i># by region of origin :</i>      |      |       |       |       |       |       |       |       |       |       |
| OPEC                                | 5582 | 7900  | 9188  | 8767  | 8325  | 1841  | 968   | 90    | 46    | -     |
| Near and Middle East                | 3746 | 3606  | 5229  | 6796  | 5645  | 1841  | 968   | -     | -     | -     |
| Africa                              | 1910 | 5743  | 3568  | 2598  | 3000  | -     | -     | -     | -     | -     |
| Eastern Europe                      | 226  | -     | 836   | 674   | 550   | 7201  | 5264  | 4631  | 5345  | 5262  |
| <i>by country of origin :</i>       |      |       |       |       |       |       |       |       |       |       |
| Algeria                             | 612  | 1137  | 342   | -     | -     | -     | -     | -     | -     | -     |
| Nigeria                             | 939  | 2261  | 2670  | 2137  | 2293  | -     | -     | -     | -     | -     |
| Saudi Arabia                        | 1444 | 1290  | 2878  | 2704  | 1971  | 1048  | 407   | -     | -     | -     |
| Kuwait                              | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| United Arab Emirates                | 843  | 326   | -     | -     | -     | -     | 82    | -     | -     | -     |
| Norway                              | -    | 77    | 244   | 589   | 1275  | 226   | 1344  | 2615  | 3200  | 2812  |
| <b>Petroleum products</b>           |      |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE</b>                   |      |       |       |       |       |       |       |       |       |       |
| Primary production                  | -    | -     | -     | -     | -     | -     | -     | -     | 95    | -     |
| Gross production                    | 7166 | 10879 | 13046 | 14174 | 13482 | 10339 | 10344 | 11542 | 13266 | 12962 |
|                                     |      |       |       | 13332 | 12539 | 9859  | 9929  | 11072 | 12773 | 12460 |
| Total imports                       | 1836 | 3480  | 3199  | 3716  | 4302  | 3188  | 3386  | 4268  | 3722  | 3718  |
| Total exports                       | 508  | 2471  | 2106  | 1901  | 1389  | 2169  | 1676  | 4091  | 4655  | 4931  |
| Bunkers                             | 480  | 619   | 504   | 391   | 599   | 473   | 579   | 413   | 529   | 567   |
| Stock changes                       | 389  | 167   | 310   | -23   | 97    | -385  | -520  | 147   | 105   | 216   |
| Availability                        | 8000 | 10931 | 12873 | 14670 | 14796 | 9674  | 9977  | 9105  | 10045 | 9554  |
| <b>2. INLAND MARKET CONSUMPTION</b> |      |       |       |       |       |       |       |       |       |       |
| Total consumption                   | 7992 | 10890 | 12763 | 14228 | 14696 | 9054  | 9969  | 9255  | 9505  | 9148  |
| <i>among which:</i>                 |      |       |       |       |       |       |       |       |       |       |
| Non-energy use                      | 990  | 2056  | 1907  | 2172  | 2357  | 966   | 1421  | 1334  | 1463  | 948   |
| Power stations                      | 1578 | 2202  | 1521  | 2217  | 2338  | 176   | 303   | 293   | 244   | 527   |
| Industry                            | 1866 | 1834  | 2616  | 2832  | 2622  | 1605  | 1187  | 1081  | 1176  | 1382  |
| <i>among which by product:</i>      |      |       |       |       |       |       |       |       |       |       |
| Gas / diesel oil                    | 132  | 245   | 321   | 390   | 383   | 342   | 199   | 206   | 152   | 248   |
| Residual fuel oil                   | 1554 | 1339  | 1668  | 1635  | 1375  | 1136  | 859   | 753   | 885   | 905   |
| <i>among which by sector:</i>       |      |       |       |       |       |       |       |       |       |       |
| Iron & steel industry               | 36   | 61    | 43    | 42    | 37    | 277   | 176   | 358   | 399   | 413   |
| Chemical industry                   | 303  | 223   | 428   | 398   | 99    | 226   | 167   | 130   | 127   | 280   |
| Non-metallic mineral products       | 499  | 369   | 769   | 942   | 1095  | 193   | 188   | 90    | 98    | 98    |
| Food, drink, tobacco                | 217  | 240   | 298   | 282   | 250   | 257   | 173   | 108   | 125   | 127   |
| Engineering & metal industry        | 14   | 45    | 45    | 40    | 39    | 130   | 140   | 76    | 94    | 89    |
| Transport                           | 2567 | 3605  | 5095  | 5523  | 5853  | 3218  | 4101  | 4075  | 4129  | 4228  |
| <i>among which :</i>                |      |       |       |       |       |       |       |       |       |       |
| Motor spirit                        | 855  | 1371  | 1951  | 2030  | 2082  | 1511  | 1975  | 1874  | 1846  | 1840  |
| Jet fuel                            | 453  | 565   | 586   | 630   | 721   | 245   | 447   | 448   | 467   | 493   |
| Diesel oil                          | 1259 | 1669  | 2549  | 2863  | 3028  | 1434  | 1636  | 1707  | 1776  | 1878  |
|                                     |      |       |       | 1475  | 1526  | 2448  | 2686  | 2238  | 2293  | 2063  |
| <i>among which:</i>                 |      |       |       |       |       |       |       |       |       |       |
| Gas oil                             | 427  | 503   | 666   | 761   | 800   | 2047  | 2230  | 1956  | 2007  | 1875  |

**Sverige**

**United Kingdom**

| 1985                                       | 1990  | 1997  | 1998  | 1999  | 1985   | 1990  | 1997   | 1998   | 1999   | en 1000 t                         |
|--|-------|-------|-------|-------|--------|-------|--------|--------|--------|-----------------------------------|
| <b>Pétrole brut et feedstocks</b>          |       |       |       |       |        |       |        |        |        |                                   |
| 8  | 3     | -     | -     | -     | 127642 | 91596 | 128234 | 132367 | 137099 | <b>1. BILAN</b>                   |
| 14388                                      | 17392 | 20473 | 20241 | 19693 | 35576  | 52710 | 49994  | 47957  | 44891  | Production primaire               |
| 253  | 376   | 402   | 394   | 439   | 82980  | 55798 | 78994  | 84612  | 91797  | Importations totales              |
| 195  | -20   | -90   | -125  | 30    | -222   | 502   | -208   | -593   | -198   | Exportations totales              |
| 14175                                      | 18060 | 21683 | 21335 | 21294 | 78431  | 88692 | 97023  | 93797  | 88286  | Variations de stocks              |
|  |       |       |       |       |        |       |        |        |        | Entrées en raffineries            |
| 21   | 3290  | 4089  | 2991  | 2932  | 6231   | 4205  | 5143   | 4707   | 3988   | <b>2. IMPORTATIONS</b>            |
| 14367                                      | 14102 | 16384 | 17250 | 16761 | 29345  | 48505 | 44851  | 43250  | 40903  | Intra-UE total                    |
|  |       |       |       |       |        |       |        |        |        | Extra-UE total                    |
|  |       |       |       |       |        |       |        |        |        | <i>par région de provenance :</i> |
| 2451                                       | 3679  | 4635  | 4979  | 3938  | 13870  | 18762 | 8662   | 8625   | 5137   | OPEP                              |
| 282  | 2236  | 3388  | 3523  | 3019  | 6877   | 13260 | 3007   | 4887   | 1587   | Proche et Moyen-Orient            |
| 1564                                       | 252   | 135   | 464   | 34    | 3298   | 6085  | 2745   | 2712   | 3490   | Afrique                           |
| 1504                                       | 2847  | 1813  | 2234  | 2338  | 1430   | 5318  | 5260   | 4881   | 2782   | Europe Orientale                  |
|  |       |       |       |       |        |       |        |        |        | <i>par pays de provenance :</i>   |
| -  | -     | -     | -     | -     | 1018   | 1399  | 547    | 552    | 900    | Algérie                           |
| 1137                                       | 252   | 135   | 373   | -     | 3042   | 1868  | 214    | 538    | 460    | Nigéria                           |
| 122  | 350   | 2013  | 1648  | 1065  | 2963   | 4071  | 3007   | 3188   | 698    | Arabie Séoudite                   |
| -  | -     | -     | -     | -     | 1089   | 2268  | 1544   | 898    | -      | Koweït                            |
| -  | -     | -     | -     | -     | 174    | 556   | -      | 65     | -      | Emirats Arabes Unis               |
| 2011                                       | 7712  | 8818  | 9775  | 10459 | 11021  | 19971 | 30004  | 28333  | 25832  | Norvège                           |
| <b>Produits pétroliers</b>                 |       |       |       |       |        |       |        |        |        |                                   |
| -  | -     | -     | -     | -     | 16     | 6     | -      | -      | -      | <b>1. BILAN</b>                   |
| 13395                                      | 17082 | 21406 | 21001 | 21129 | 78083  | 88120 | 96938  | 93564  | 87958  | Production primaire               |
| 13107                                      | 16651 | 20959 | 20509 | 20594 | 72536  | 82284 | 90778  | 87093  | 81973  | Production brute                  |
| 8604                                       | 6193  | 6017  | 6392  | 5567  | 13414  | 10975 | 8885   | 11373  | 12614  | Production nette                  |
| 5761                                       | 8255  | 9267  | 8421  | 8874  | 14829  | 16897 | 26745  | 24332  | 21655  | Importations totales              |
| 571  | 680   | 1347  | 1609  | 1553  | 2151   | 2537  | 2962   | 3080   | 2330   | Exportations totales              |
| 951  | 70    | 157   | -556  | 975   | 159    | 516   | 316    | -93    | 573    | Soutes                            |
| 15839                                      | 13803 | 15208 | 14845 | 15092 | 68723  | 74285 | 72897  | 73163  | 72393  | Variations de stocks              |
|  |       |       |       |       |        |       |        |        |        | Disponibilités                    |
| <b>2. CONSOMMATION DU MARCHÉ INTERIEUR</b> |       |       |       |       |        |       |        |        |        |                                   |
| 16480                                      | 14081 | 15385 | 15474 | 14837 | 69211  | 74316 | 72607  | 71711  | 71017  | Total de la consommation          |
|  |       |       |       |       |        |       |        |        |        | <i>dont :</i>                     |
| 1483                                       | 1827  | 2356  | 2309  | 2368  | 7294   | 8595  | 9213   | 9298   | 9587   | Usages non énergétiques           |
| 1201                                       | 236   | 633   | 656   | 521   | 11193  | 7938  | 1786   | 1109   | 723    | Centrales électriques             |
| 2708                                       | 1737  | 1783  | 1815  | 1763  | 7687   | 7505  | 7964   | 7363   | 7167   | Industrie                         |
|  |       |       |       |       |        |       |        |        |        | <i>dont par produit:</i>          |
| 599  | 448   | 452   | 433   | 440   | 2699   | 2358  | 2659   | 2866   | 2880   | Gasoil et fuel-oil fluide         |
| 1945                                       | 969   | 965   | 965   | 969   | 3221   | 3421  | 1826   | 1318   | 1111   | Fuel-oil résiduel                 |
|  |       |       |       |       |        |       |        |        |        | <i>dont par secteur:</i>          |
| 362  | 278   | 301   | 315   | 309   | 681    | 713   | 574    | 350    | 353    | Sidérurgie                        |
| 224  | 96    | 59    | 134   | 107   | 346    | 929   | 412    | 464    | 367    | Chimie                            |
| 239  | 191   | 138   | 146   | 171   | 523    | 470   | 242    | 224    | 214    | Prod. minéraux non métalliques    |
| 291  | 186   | 194   | 184   | 180   | 958    | 889   | 455    | 393    | 336    | Alimentation, boissons, tabac     |
| 381  | 269   | 209   | 200   | 181   | 1055   | 752   | 547    | 459    | 413    | Fabrications métalliques          |
| 5990                                       | 6772  | 7181  | 7288  | 7247  | 34281  | 43454 | 47256  | 47795  | 48110  | Transport                         |
|  |       |       |       |       |        |       |        |        |        | <i>dont :</i>                     |
| 3759                                       | 4170  | 4131  | 4021  | 4040  | 20431  | 24338 | 22252  | 21882  | 21555  | Essences moteur                   |
| 531  | 740   | 848   | 856   | 914   | 5018   | 6601  | 8396   | 9207   | 9918   | Carburéacteurs                    |
| 1572                                       | 1801  | 2172  | 2374  | 2257  | 8728   | 12434 | 16483  | 16597  | 16559  | Gasoil routier                    |
| 4267                                       | 3230  | 3028  | 2919  | 2614  | 8608   | 6824  | 6208   | 6100   | 5384   | Services & ménages etc.           |
|  |       |       |       |       |        |       |        |        |        | <i>dont :</i>                     |
| 3633                                       | 2784  | 2677  | 2588  | 2443  | 4975   | 3849  | 2709   | 2576   | 2200   | Gasoil                            |

**Petroleum**  
**Principal aggregates**

EU-15

Belgique/België

| <i>in 1000 t</i>                                    | 1985   | 1990   | 1997   | 1998    | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|--------|--------|--------|---------|--------|-------|-------|-------|-------|-------|
| <b>Crude oil, feedstocks and petroleum products</b> |        |        |        |         |        |       |       |       |       |       |
| <b>1. IMPORTS</b>                                   |        |        |        |         |        |       |       |       |       |       |
| Net imports   | 382217 | 459557 | 469531 | 489836  | 458134 | 19188 | 22227 | 28644 | 30067 | 27161 |
| <b>2. STOCKS AT END OF PERIOD</b>                   |        |        |        |         |        |       |       |       |       |       |
| Crude oil and feedstocks                            | 52301  | 54523  | 52888  | 58374   | 56537  | 600   | 855   | 857   | 944   | 981   |
| Petroleum products                                  | 89596  | 90029  | 85862  | 98977   | 88717  | 2951  | 2971  | 3170  | 3630  | 2629  |
| <b>3. REFINING CAPACITY (1000 t/year)</b>           |        |        |        |         |        |       |       |       |       |       |
| Capacity at the end of year                         | 660000 | 608220 | 652351 | 661045  | :      | 31200 | 32400 | 34750 | 36450 | 36650 |
| <i>among which:</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Cracking and others                                 |        |        | 231800 | 167700* |        | 8670  | 9300  | 10900 | 8500* |       |
| Reforming   |        |        | 84700  | 93300*  |        | 4430  | 4400  | 4500  | 7400* |       |
| <b>Petroleum products</b>                           |        |        |        |         |        |       |       |       |       |       |
| <b>1. IMPORTS</b>                                   |        |        |        |         |        |       |       |       |       |       |
| Total petroleum products                            | 182230 | 194717 | 195725 | 200640  | 204650 | 11615 | 11971 | 13060 | 13760 | 13811 |
| <i>by origin :</i>                                  |        |        |        |         |        |       |       |       |       |       |
| Intra-EU  | 81482  | 91464  | 114163 | 116292  | 109270 | 8487  | 9918  | 11027 | 11324 | 11658 |
| <i>among which:</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Nederland   | 33753  | 35077  | 39249  | 40588   | 39029  | 6141  | 8115  | 8540  | 9304  | 9428  |
| United Kingdom                                      | 15662  | 16511  | 20406  | 20042   | 21208  | 856   | 562   | 1211  | 926   | 1078  |
| Extra-EU  | 100748 | 103253 | 81562  | 84348   | 95380  | 3128  | 2053  | 2033  | 2436  | 2153  |
| <i>among which:</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Norway  | 3153   | 7536   | 6972   | 8277    | 6412   | 59    | 36    | 993   | 829   | 487   |
| OPEC  | 28680  | 29107  | 18762  | 20830   | 21430  | 445   | 484   | 125   | 275   | 80    |
| <i>by product :</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Motor spirit  | 19032  | 31553  | 24375  | 26790   | 25955  | 1385  | 1635  | 1395  | 1434  | 1574  |
| Kerosene and jet fuel                               | 4959   | 7925   | 9803   | 12063   | 13766  | 173   | 473   | 687   | 488   | 643   |
| Gas / diesel oil                                    | 63062  | 59858  | 63686  | 66918   | 68828  | 4155  | 4754  | 4876  | 5908  | 6313  |
| Residual fuel oil                                   | 50751  | 43547  | 40729  | 39953   | 38054  | 3930  | 3201  | 2799  | 2833  | 2227  |
| <b>2. EXPORTS</b>                                   |        |        |        |         |        |       |       |       |       |       |
| Total petroleum products                            | 142884 | 170198 | 189629 | 193279  | 187182 | 12729 | 16452 | 17481 | 18273 | 18852 |
| <i>among which:</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Motor spirit  | 25887  | 37627  | 42764  | 44828   | 44502  | 2690  | 4272  | 4959  | 5339  | 5257  |
| Kerosene and jet fuel                               | 9186   | 12601  | 10420  | 10372   | 11328  | 803   | 952   | 911   | 902   | 1133  |
| Gas / diesel oil                                    | 40468  | 46696  | 57482  | 58685   | 57527  | 3640  | 5645  | 5858  | 6117  | 7355  |
| Residual fuel oil                                   | 40931  | 41423  | 39692  | 41872   | 35411  | 3646  | 3249  | 3382  | 3480  | 2763  |
| <b>3. NET PRODUCTION</b>                            |        |        |        |         |        |       |       |       |       |       |
| Total petroleum products                            | 494750 | 556046 | 621593 | 637212  | 606232 | 19442 | 28093 | 35002 | 36340 | 34326 |
| <i>among which:</i>                                 |        |        |        |         |        |       |       |       |       |       |
| Motor spirit  | 110564 | 130600 | 143355 | 145700  | 138219 | 3870  | 5271  | 6103  | 6431  | 6032  |
| Kerosene and jet fuel                               | 29525  | 38469  | 44065  | 44961   | 45571  | 1218  | 1517  | 1756  | 2195  | 2128  |
| Naphtha   | 27662  | 33806  | 40853  | 41115   | 38320  | 1304  | 1391  | 1407  | 1524  | 1608  |
| Gas / diesel oil                                    | 169270 | 184832 | 225687 | 232444  | 221820 | 7336  | 10215 | 12499 | 12425 | 11729 |
| Residual fuel oil                                   | 111289 | 108966 | 102213 | 106990  | 95830  | 3922  | 5154  | 6788  | 7414  | 6305  |
| <b>4. NET PRODUCTION (%)</b>                        |        |        |        |         |        |       |       |       |       |       |
| Motor spirit  | 22.3   | 23.5   | 23.1   | 22.9    | 22.8   | 19.9  | 18.8  | 17.4  | 17.7  | 17.6  |
| Kerosene and jet fuel                               | 6.0    | 6.9    | 7.1    | 7.1     | 7.5    | 6.3   | 5.4   | 5.0   | 6.0   | 6.2   |
| Naphtha   | 5.6    | 6.1    | 6.6    | 6.5     | 6.3    | 6.7   | 5.0   | 4.0   | 4.2   | 4.7   |
| Gas / diesel oil                                    | 34.2   | 33.2   | 36.3   | 36.5    | 36.6   | 37.7  | 36.4  | 35.7  | 34.2  | 34.2  |
| Residual fuel oil                                   | 22.5   | 19.6   | 16.4   | 16.8    | 15.8   | 20.2  | 18.3  | 19.4  | 20.4  | 18.4  |

# Mineralöl Hauptaggregate

Danmark

Deutschland

| 1985  | 1990 | 1997 | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   | in 1000 t                           |
|---|------|------|-------|-------|--------|--------|--------|--------|--------|-------------------------------------|
| <b>Rohöl, Feedstocks und Mineralölerzeugnisse</b> |      |      |       |       |        |        |        |        |        |                                     |
| 8209  | 3124 | -228 | 122   | -4165 | 117312 | 119053 | 133597 | 137527 | 126050 | Nettoeinführen                      |
| <b>1. EINFUHREN</b>                               |      |      |       |       |        |        |        |        |        |                                     |
| <b>2. BESTÄNDE AM ENDE EINES ZEITRAUMS</b>        |      |      |       |       |        |        |        |        |        |                                     |
| 660   | 555  | 542  | 705   | 784   | 14411  | 18668  | 17400  | 19764  | 18104  | Rohöl und Feedstocks                |
| 5046  | 3986 | 2817 | 2878  | 2224  | 19358  | 17894  | 22708  | 23216  | 20715  | Mineralölerzeugnisse                |
| <b>3. RAFFINERIEKAPAZITÄT (1000 t/Jahr)</b>       |      |      |       |       |        |        |        |        |        |                                     |
| 8300  | 8700 | 9455 | 6750  | 6750  | 88100  | 78900  | 108050 | 109840 | 111540 | Kapazität am Jahresende             |
| <i>darunter:</i>                                  |      |      |       |       |        |        |        |        |        |                                     |
| 3820  | 3800 | 3200 | 2300* |       | 30940  | 32900  | 39400  | 33200* |        | Cracking und Sonstige               |
| 1340  | 1400 | 1600 | 1600* | :     | 15350  | 12200  | 16600  | 14200* | :      | Reforming                           |
| <b>Mineralölerzeugnisse</b>                       |      |      |       |       |        |        |        |        |        |                                     |
| <b>1. EINFUHREN</b>                               |      |      |       |       |        |        |        |        |        |                                     |
| 6456  | 3758 | 6614 | 6795  | 5995  | 48272  | 45827  | 49302  | 44727  | 40522  | Mineralölerzeugnisse insgesamt      |
| <i>Nach Ursprung:</i>                             |      |      |       |       |        |        |        |        |        |                                     |
| 1241  | 643  | 2779 | 2359  | 2179  | 28880  | 28888  | 40276  | 37641  | 34717  | Intra-EU                            |
| <i>darunter:</i>                                  |      |      |       |       |        |        |        |        |        |                                     |
| 473   | 235  | 124  | 75    | 149   | 19862  | 19209  | 26199  | 26086  | 23871  | Niederland                          |
| 312   | 60   | 238  | 205   | 178   | 2907   | 2315   | 2510   | 1183   | 1346   | United Kingdom                      |
| 5215  | 3115 | 3835 | 4436  | 3816  | 19392  | 16939  | 9026   | 7086   | 5805   | Extra-EU                            |
| <i>darunter:</i>                                  |      |      |       |       |        |        |        |        |        |                                     |
| 820   | 761  | 581  | 737   | 669   | 500    | 1554   | 1684   | 1215   | 445    | Norwegen                            |
| 271   | 475  | 142  | 410   | 244   | 3793   | 2007   | 667    | 466    | 471    | OPEC                                |
| <i>Nach Erzeugnissen:</i>                         |      |      |       |       |        |        |        |        |        |                                     |
| 760   | 661  | 1165 | 1032  | 947   | 6692   | 11388  | 9403   | 8760   | 7436   | Motorenbenzin                       |
| 530   | 570  | 504  | 752   | 543   | 2105   | 2967   | 3064   | 3010   | 2857   | Petroleum und Flugturbinenkraftst.  |
| 2971  | 1841 | 2121 | 2395  | 2097  | 20878  | 17720  | 22621  | 19451  | 17167  | Dieselmotoren- u. Destillat-Heizöle |
| 1455  | 219  | 2276 | 2099  | 1854  | 9710   | 5095   | 3748   | 2840   | 2443   | Rückstandsheizöle                   |
| <b>2. AUSFUHREN</b>                               |      |      |       |       |        |        |        |        |        |                                     |
| 2238  | 2642 | 4160 | 3126  | 3906  | 14490  | 14834  | 12666  | 15190  | 16664  | Mineralölerzeugnisse insgesamt      |
| <i>darunter:</i>                                  |      |      |       |       |        |        |        |        |        |                                     |
| 398   | 434  | 1533 | 1165  | 1154  | 2146   | 3140   | 2947   | 3111   | 4392   | Motorenbenzin                       |
| 7   | 45   | 120  | 109   | 297   | 197    | 108    | 60     | 74     | 119    | Petroleum und Flugturbinenkraftst.  |
| 715   | 731  | 1014 | 647   | 1093  | 3930   | 5706   | 3004   | 3894   | 4324   | Dieselmotoren- u. Destillat-Heizöle |
| 876   | 1065 | 1208 | 1095  | 1241  | 5726   | 3185   | 3656   | 4818   | 4012   | Rückstandsheizöle                   |
| <b>3. NETTOERZEUGUNG</b>                          |      |      |       |       |        |        |        |        |        |                                     |
| 6651  | 7546 | 8377 | 7504  | 7822  | 100819 | 101475 | 104716 | 110564 | 108434 | Mineralölerzeugnisse insgesamt      |
| <i>darunter:</i>                                  |      |      |       |       |        |        |        |        |        |                                     |
| 1204  | 1318 | 2343 | 2176  | 2259  | 23565  | 24318  | 25354  | 26222  | 26829  | Motorenbenzin                       |
| 142   | 325  | 431  | 378   | 519   | 2373   | 2837   | 3625   | 3699   | 4259   | Petroleum und Flugturbinenkraftst.  |
| 154   | 251  | 65   | 12    | -     | 7001   | 8552   | 8723   | 9638   | 9663   | Nafta                               |
| 3017  | 3290 | 3651 | 3244  | 3273  | 40752  | 40919  | 45401  | 47756  | 46030  | Dieselmotoren- u. Destillat-Heizöle |
| 1915  | 2188 | 1678 | 1533  | 1572  | 16247  | 11724  | 10661  | 11789  | 10177  | Rückstandsheizöle                   |
| <b>4. NETTOERZEUGUNG (%)</b>                      |      |      |       |       |        |        |        |        |        |                                     |
| 18.1  | 17.5 | 28.0 | 29.0  | 28.9  | 23.4   | 24.0   | 24.2   | 23.7   | 24.7   | Motorenbenzin                       |
| 2.1   | 4.3  | 5.1  | 5.0   | 6.6   | 2.4    | 2.8    | 3.5    | 3.3    | 3.9    | Petroleum und Flugturbinenkraftst.  |
| 2.3   | 3.3  | 0.8  | 0.2   |       | 6.9    | 8.4    | 8.3    | 8.7    | 8.9    | Nafta                               |
| 45.4  | 43.6 | 43.6 | 43.2  | 41.8  | 40.4   | 40.3   | 43.4   | 43.2   | 42.4   | Dieselmotoren- u. Destillat-Heizöle |
| 28.8  | 29.0 | 20.0 | 20.4  | 20.1  | 16.1   | 11.6   | 10.2   | 10.7   | 9.4    | Rückstandsheizöle                   |

**Petroleum**  
**Principal aggregates**

Ellada

España

| <i>in 1000 t</i>                                    | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998   | 1999  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| <b>Crude oil, feedstocks and petroleum products</b> |       |       |       |       |       |       |       |       |        |       |
| <b>1. IMPORTS</b>                                   |       |       |       |       |       |       |       |       |        |       |
| Net imports   | 10546 | 14404 | 18220 | 19475 | 17839 | 39151 | 49056 | 62516 | 67376  | 68976 |
| <b>2. STOCKS AT END OF PERIOD</b>                   |       |       |       |       |       |       |       |       |        |       |
| Crude oil and feedstocks                            | 744   | 1193  | 1223  | 1618  | 1431  | 3822  | 3948  | 4586  | 4978   | 4449  |
| Petroleum products                                  | 2505  | 2483  | 1971  | 2707  | 2022  | 6256  | 6366  | 8968  | 9743   | 10484 |
| <b>3. REFINING CAPACITY (1000 t/year)</b>           |       |       |       |       |       |       |       |       |        |       |
| Capacity at the end of year                         | 18000 | 17700 | 19575 | 19375 | 19125 | 61500 | 62000 | 64900 | 65775  | 65775 |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Cracking and others                                 | 1410  | 6300  | 7300  | 5800* |       | 15300 | 17500 | 19400 | 13900* |       |
| Reforming   | 1260  | 1500  | 2200  | 2400* |       | 7610  | 7700  | 8400  | 9400*  |       |
| <b>Petroleum products</b>                           |       |       |       |       |       |       |       |       |        |       |
| <b>1. IMPORTS</b>                                   |       |       |       |       |       |       |       |       |        |       |
| Total petroleum products                            | 3773  | 5899  | 3401  | 3389  | 4208  | 5183  | 8062  | 13544 | 15576  | 16991 |
| <i>by origin :</i>                                  |       |       |       |       |       |       |       |       |        |       |
| Intra-EU  | 620   | 425   | 778   | 810   | 1012  | 1007  | 1418  | 5040  | 6449   | 1839  |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Nederland   | 49    | 57    | 3     | 15    | 109   | 126   | 163   | 245   | 344    | 657   |
| United Kingdom                                      | 14    | 16    | 10    | 76    | 73    | 230   | 207   | 512   | 774    | 1379  |
| Extra-EU  | 3153  | 5474  | 2623  | 2579  | 3196  | 4176  | 6644  | 8504  | 9127   | 15152 |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Norway  | -     | -     | -     | -     | -     | 22    | -     | 96    | 228    | 123   |
| OPEC  | 1283  | 3806  | 150   | -     | 761   | 1834  | 1574  | 3495  | 4616   | 2277  |
| <i>by product :</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Motor spirit  | 397   | 217   | 45    | 152   | 477   | 12    | 609   | 918   | 777    | 886   |
| Kerosene and jet fuel                               | 340   | 614   | 81    | 62    | 306   | -     | 55    | 270   | 388    | 424   |
| Gas / diesel oil                                    | 1363  | 2303  | 2292  | 2539  | 2738  | 921   | 1231  | 3604  | 4829   | 6749  |
| Residual fuel oil                                   | 1361  | 2233  | 435   | 411   | 298   | 861   | 1167  | 1645  | 2289   | 2235  |
| <b>2. EXPORTS</b>                                   |       |       |       |       |       |       |       |       |        |       |
| Total petroleum products                            | 3743  | 6152  | 3518  | 3120  | 3540  | 10316 | 12274 | 7664  | 8879   | 6926  |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Motor spirit  | 527   | 1097  | 556   | 645   | 653   | 939   | 1392  | 1249  | 1925   | 1612  |
| Kerosene and jet fuel                               | 483   | 1225  | 854   | 829   | 930   | 1197  | 1609  | 359   | 102    | 250   |
| Gas / diesel oil                                    | 460   | 556   | 185   | 284   | 586   | 476   | 401   | 781   | 957    | 729   |
| Residual fuel oil                                   | 1566  | 2026  | 695   | 196   | 280   | 5234  | 6231  | 2095  | 2767   | 1400  |
| <b>3. NET PRODUCTION</b>                            |       |       |       |       |       |       |       |       |        |       |
| Total petroleum products                            | 11623 | 15785 | 19752 | 20129 | 18019 | 42940 | 49701 | 53093 | 57677  | 56840 |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |        |       |
| Motor spirit  | 1954  | 3379  | 3607  | 3671  | 3205  | 6709  | 9230  | 9235  | 9930   | 9437  |
| Kerosene and jet fuel                               | 1380  | 1822  | 1972  | 1995  | 1908  | 2816  | 4468  | 4074  | 3919   | 4272  |
| Naphtha   | 386   | 550   | 970   | 932   | 880   | 2940  | 2192  | 2694  | 2940   | 3102  |
| Gas / diesel oil                                    | 3231  | 3663  | 5144  | 5544  | 4866  | 11495 | 14558 | 18532 | 19957  | 20368 |
| Residual fuel oil                                   | 4171  | 5330  | 6855  | 6641  | 6013  | 14075 | 13151 | 11603 | 12974  | 11994 |
| <b>4. NET PRODUCTION (%)</b>                        |       |       |       |       |       |       |       |       |        |       |
| Motor spirit  | 16.8  | 21.4  | 18.3  | 18.2  | 17.8  | 15.6  | 18.6  | 17.4  | 17.2   | 16.6  |
| Kerosene and jet fuel                               | 11.9  | 11.5  | 10.0  | 9.9   | 10.6  | 6.6   | 9.0   | 7.7   | 6.8    | 7.5   |
| Naphtha   | 3.3   | 3.5   | 4.9   | 4.6   | 4.9   | 6.8   | 4.4   | 5.1   | 5.1    | 5.5   |
| Gas / diesel oil                                    | 27.8  | 23.2  | 26.0  | 27.5  | 27.0  | 26.8  | 29.3  | 34.9  | 34.6   | 35.8  |
| Residual fuel oil                                   | 35.9  | 33.8  | 34.7  | 33.0  | 33.4  | 32.8  | 26.5  | 21.9  | 22.5   | 21.1  |



France

Ireland

| 1985   | 1990  | 1997  | 1998   | 1999  | 1985 | 1990 | 1997 | 1998 | 1999 | en 1000 t                                     |
|--|-------|-------|--------|-------|------|------|------|------|------|---|
| <b>Pétrole brut, feedstocks et produits pétroliers</b> |       |       |        |       |      |      |      |      |      |   |
| 80621  | 85602 | 87850 | 92451  | 89724 | 4046 | 4990 | 6674 | 7401 | 8272 | <b>1. IMPORTATIONS</b><br>Importations nettes |
| <b>2. STOCKS EN FIN DE PERIODE</b>                     |       |       |        |       |      |      |      |      |      |   |
| 6549   | 6605  | 7443  | 7958   | 8265  | 160  | 345  | 316  | 430  | 457  | Pétrole brut et feedstocks                    |
| 14511  | 11715 | 7443  | 14837  | 13350 | 602  | 756  | 931  | 940  | 1042 | Produits pétroliers                           |
| <b>3. CAPACITE DE RAFFINAGE (1000 t/an)</b>            |       |       |        |       |      |      |      |      |      |   |
| 110500   | 87700 | 93223 | 95515  | 96238 | 2900 | 2900 | 3088 | 3325 | 3563 | Capacité en fin d'année                       |
| <i>dont :</i>  |       |       |        |       |      |      |      |      |      |   |
| 24070  | 26800 | 28500 | 21400* |       | -    | -    | -    | -    | -    | Craquage et autres                            |
| 14850  | 13100 | 11100 | 11800* |       | 630  | 600  | 500  | 600* |      | Reformage                                     |
| <b>Produits pétroliers</b>                             |       |       |        |       |      |      |      |      |      |   |
| <b>1. IMPORTATIONS</b>                                 |       |       |        |       |      |      |      |      |      |   |
| 16793  | 24446 | 19121 | 23061  | 26917 | 3303 | 3682 | 5121 | 5541 | 6557 | Total des produits pétroliers                 |
| <i>par provenance :</i>                                |       |       |        |       |      |      |      |      |      |   |
| 7886   | 11750 | 11329 | 12683  | 12793 | 2852 | 3195 | 3310 | 5181 | 6210 | Intra-UE                                      |
| <i>dont :</i>  |       |       |        |       |      |      |      |      |      |   |
| 1993   | 2360  | 2047  | 2847   | 2660  | -    | -    | -    | 14   | -    | Nederland                                     |
| 1933   | 2752  | 3217  | 3279   | 3869  | 2678 | 3081 | 3310 | 5161 | 6210 | United Kingdom                                |
| 8907   | 12696 | 7792  | 10378  | 14124 | 451  | 487  | 1811 | 360  | 347  | Extra-UE                                      |
| <i>dont :</i>  |       |       |        |       |      |      |      |      |      |   |
| 272  | 1157  | 537   | 618    | 553   | -    | 22   | -    | -    | -    | Norvège                                       |
| 3557   | 4235  | 3134  | 2773   | 4589  | -    | -    | -    | 80   | -    | OPEP  |
| <i>par produit :</i>                                   |       |       |        |       |      |      |      |      |      |   |
| 1794   | 4404  | 1775  | 2431   | 2029  | 578  | 550  | 788  | 868  | 989  | Essences moteur                               |
| 130  | 1007  | 770   | 1054   | 1704  | 336  | 442  | 688  | 747  | 932  | Pétrole lampant et carburéacteur              |
| 7515   | 11185 | 9622  | 11297  | 11668 | 920  | 1174 | 1560 | 1714 | 1948 | Gasoil et fuel-oil fluide                     |
| 922  | 398   | 384   | 1600   | 1323  | 1144 | 1125 | 1584 | 1705 | 2207 | Fuel-oil résiduel                             |
| <b>2. EXPORTATIONS</b>                                 |       |       |        |       |      |      |      |      |      |   |
| 11719  | 14118 | 18324 | 19662  | 17994 | 504  | 698  | 1356 | 1288 | 1133 | Total des produits pétroliers                 |
| <i>dont :</i>  |       |       |        |       |      |      |      |      |      |   |
| 1431   | 3040  | 4789  | 5524   | 5102  | -    | 1    | 68   | 11   | 7    | Essences moteur                               |
| 811  | 789   | 1866  | 1885   | 1335  | -    | -    | 36   | 9    | 3    | Pétrole lampant et carburéacteur              |
| 2988   | 3911  | 3191  | 2710   | 2230  | 13   | 4    | 138  | 75   | 10   | Gasoil et fuel-oil fluide                     |
| 4063   | 3108  | 3027  | 4663   | 4332  | 486  | 615  | 995  | 1039 | 983  | Fuel-oil résiduel                             |
| <b>3. PRODUCTION NETTE</b>                             |       |       |        |       |      |      |      |      |      |   |
| 74988  | 73597 | 85410 | 88079  | 77700 | 1268 | 1660 | 2831 | 3075 | 2752 | Total des produits pétroliers                 |
| <i>dont :</i>  |       |       |        |       |      |      |      |      |      |   |
| 16893  | 17579 | 18805 | 19618  | 16170 | 317  | 340  | 452  | 468  | 435  | Essences moteur                               |
| 4346   | 5057  | 6676  | 6755   | 6510  | -    | -    | 224  | 211  | 206  | Pétrole lampant et carburéacteur              |
| 2806   | 3480  | 5744  | 5398   | 4642  | 14   | 70   | 94   | 121  | 114  | Naphta  |
| 29668  | 27890 | 35110 | 35982  | 31694 | 434  | 614  | 996  | 1121 | 979  | Gasoil et fuel-oil fluide                     |
| 13478  | 11320 | 9561  | 10721  | 9324  | 487  | 607  | 1007 | 1082 | 972  | Fuel-oil résiduel                             |
| <b>4. PRODUCTION NETTE (%)</b>                         |       |       |        |       |      |      |      |      |      |   |
| 22.5   | 23.9  | 22.0  | 22.3   | 20.8  | 25.0 | 20.5 | 16.0 | 15.2 | 15.8 | Essences moteur                               |
| 5.8  | 6.9   | 7.8   | 7.7    | 8.4   |      |      | 7.9  | 6.9  | 7.5  | Pétrole lampant et carburéacteur              |
| 3.7  | 4.7   | 6.7   | 6.1    | 6.0   | 1.1  | 4.2  | 3.3  | 3.9  | 4.1  | Naphta  |
| 39.6   | 37.9  | 41.1  | 40.9   | 40.8  | 34.2 | 37.0 | 35.2 | 36.5 | 35.6 | Gasoil et fuel-oil fluide                     |
| 18.0   | 15.4  | 11.2  | 12.2   | 12.0  | 38.4 | 36.6 | 35.6 | 35.2 | 35.3 | Fuel-oil résiduel                             |

**Petroleum**  
**Principal aggregates**

**Italia**

**Luxembourg**

| <i>in 1000 t</i>                                    | 1985   | 1990   | 1997   | 1998   | 1999   | 1985 | 1990 | 1997 | 1998 | 1999 |
|---|--------|--------|--------|--------|--------|------|------|------|------|------|
| <b>Crude oil, feedstocks and petroleum products</b> |        |        |        |        |        |      |      |      |      |      |
| <b>1. IMPORTS</b>                                   |        |        |        |        |        |      |      |      |      |      |
| Net imports   | 81991  | 90403  | 88418  | 90670  | 87552  | 1053 | 1597 | 1869 | 2000 | 2051 |
| <b>2. STOCKS AT END OF PERIOD</b>                   |        |        |        |        |        |      |      |      |      |      |
| Crude oil and feedstocks                            | 6748   | 6701   | 5271   | 5359   | 5048   | -    | -    | -    | -    | -    |
| Petroleum products                                  | 13043  | 17082  | 14076  | 14581  | 13569  | 118  | 134  | 99   | 134  | 88   |
| <b>3. REFINING CAPACITY (1000 t/year)</b>           |        |        |        |        |        |      |      |      |      |      |
| Capacity at the end of year                         | 121500 | 112600 | 113200 | 115500 | 115500 | -    | -    | -    | -    | -    |
| <i>among which:</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Cracking and others                                 | 39660  | 38700  | 47800  | 26200* |        | -    | -    | -    | -    | -    |
| Reforming   | 18350  | 13000  | 11800  | 12100* |        | -    | -    | -    | -    | -    |
| <b>Petroleum products</b>                           |        |        |        |        |        |      |      |      |      |      |
| <b>1. IMPORTS</b>                                   |        |        |        |        |        |      |      |      |      |      |
| Total petroleum products                            | 19148  | 23613  | 21787  | 21629  | 19699  | 1075 | 1610 | 1874 | 2016 | 2069 |
| <i>by origin :</i>                                  |        |        |        |        |        |      |      |      |      |      |
| Intra-EU  | 3092   | 6553   | 8909   | 6647   | 5231   | 1071 | 1606 | 1874 | 2016 | 2069 |
| <i>among which:</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Nederland   | 273    | 909    | 776    | 404    | 300    | 65   | 123  | 133  | 166  | 181  |
| United Kingdom                                      | 472    | 2006   | 3225   | 2597   | 1522   | -    | -    | -    | -    | -    |
| Extra-EU  | 16056  | 17060  | 12878  | 14982  | 14468  | 4    | 4    | 0    | 0    | 0    |
| <i>among which:</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Norway  | 18     | 642    | 859    | 934    | 399    | -    | -    | -    | -    | -    |
| OPEC  | 9541   | 7014   | 6005   | 6729   | 8068   | -    | -    | -    | -    | -    |
| <i>by product :</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Motor spirit  | 319    | 681    | 948    | 898    | 726    | 314  | 420  | 549  | 553  | 555  |
| Kerosene and jet fuel                               | 21     | 4      | -      | 37     | 417    | 73   | 129  | 243  | 281  | 323  |
| Gas / diesel oil                                    | 6656   | 4946   | 703    | 732    | 1047   | 551  | 773  | 1014 | 1125 | 1134 |
| Residual fuel oil                                   | 8745   | 11821  | 15021  | 14349  | 11911  | 85   | 247  | 37   | 7    | 5    |
| <b>2. EXPORTS</b>                                   |        |        |        |        |        |      |      |      |      |      |
| Total petroleum products                            | 12059  | 16923  | 20611  | 22476  | 20078  | 22   | 13   | 5    | 16   | 18   |
| <i>among which:</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Motor spirit  | 3548   | 4463   | 2726   | 2759   | 2729   | 2    | -    | 2    | 3    | 4    |
| Kerosene and jet fuel                               | 1529   | 2058   | 726    | 982    | 1093   | -    | -    | -    | -    | -    |
| Gas / diesel oil                                    | 2407   | 5398   | 10172  | 11249  | 8930   | 13   | 12   | 2    | 5    | 6    |
| Residual fuel oil                                   | 2995   | 3442   | 4930   | 5117   | 4524   | -    | 1    | -    | -    | -    |
| <b>3. NET PRODUCTION</b>                            |        |        |        |        |        |      |      |      |      |      |
| Total petroleum products                            | 73848  | 86013  | 91920  | 94515  | 90790  | -    | -    | -    | -    | -    |
| <i>among which:</i>                                 |        |        |        |        |        |      |      |      |      |      |
| Motor spirit  | 15283  | 18488  | 21393  | 21348  | 21616  | -    | -    | -    | -    | -    |
| Kerosene and jet fuel                               | 4187   | 5159   | 5173   | 5342   | 5151   | -    | -    | -    | -    | -    |
| Naphtha   | 3206   | 4129   | 4324   | 5088   | 3601   | -    | -    | -    | -    | -    |
| Gas / diesel oil                                    | 23890  | 29132  | 34561  | 36271  | 34606  | -    | -    | -    | -    | -    |
| Residual fuel oil                                   | 21556  | 21974  | 17778  | 18513  | 17733  | -    | -    | -    | -    | -    |
| <b>4. NET PRODUCTION (%)</b>                        |        |        |        |        |        |      |      |      |      |      |
| Motor spirit  | 20.7   | 21.5   | 23.3   | 22.6   | 23.8   | -    | -    | -    | -    | -    |
| Kerosene and jet fuel                               | 5.7    | 6.0    | 5.6    | 5.7    | 5.7    | -    | -    | -    | -    | -    |
| Naphtha   | 4.3    | 4.8    | 4.7    | 5.4    | 4.0    | -    | -    | -    | -    | -    |
| Gas / diesel oil                                    | 32.4   | 33.9   | 37.6   | 38.4   | 38.1   | -    | -    | -    | -    | -    |
| Residual fuel oil                                   | 29.2   | 25.5   | 19.3   | 19.6   | 19.5   | -    | -    | -    | -    | -    |

Niederland

Österreich

| 1985   | 1990  | 1997  | 1998   | 1999  | 1985 | 1990 | 1997  | 1998  | 1999  | in 1000 t                            |
|--|-------|-------|--------|-------|------|------|-------|-------|-------|--------------------------------------|
| <b>Pétrole brut, feedstocks et produits pétroliers</b> |       |       |        |       |      |      |       |       |       |                                      |
| 24078  | 30741 | 36289 | 36273  | 36615 | 8495 | 9795 | 10842 | 11538 | 11174 | 1. EINFUHREN                         |
|  |       |       |        |       |      |      |       |       |       | Nettoeinführen                       |
| <b>2. BESTÄNDE AM ENDE EINES ZEITRAUMS</b>             |       |       |        |       |      |      |       |       |       |                                      |
| 2468   | 2903  | 3112  | 3938   | 4125  | 1067 | 1369 | 1340  | 1518  | 1453  | Rohöl und Feedstocks                 |
| 8106   | 8203  | 8340  | 8346   | 6800  | 1769 | 1484 | 1670  | 1720  | 1850  | Mineralölerzeugnisse                 |
| <b>3. RAFFINERIEKAPAZITÄT (1000 t/Jahr)</b>            |       |       |        |       |      |      |       |       |       |                                      |
| 72500  | 60000 | 59400 | 59400  | 59400 | 9700 | 9720 | 10500 | 10500 | 10500 | Kapazität am Jahresende              |
|  |       |       |        |       |      |      |       |       |       | darunter:                            |
| 13280  | 20600 | 20900 | 15000* |       |      |      | 2200  | 1300* |       | Cracking und Sonstige                |
| 6510   | 8200  | 5100  | 8500*  |       |      |      | 1400  | 1500* |       | Reforming                            |
| <b>Produits pétroliers</b>                             |       |       |        |       |      |      |       |       |       |                                      |
| <b>1. EINFUHREN</b>                                    |       |       |        |       |      |      |       |       |       |                                      |
| 36944  | 39465 | 36498 | 34995  | 37364 | 2626 | 2350 | 3034  | 3948  | 4316  | Mineralölerzeugnisse insgesamt       |
|  |       |       |        |       |      |      |       |       |       | Nach Ursprung:                       |
| 11643  | 12872 | 14577 | 15109  | 15612 | 1378 | 1366 | 2093  | 2608  | 2625  | Intra-EU                             |
|  |       |       |        |       |      |      |       |       |       | darunter:                            |
| -  | -     | -     | -      | -     | 23   | 25   | 19    | 47    | 53    | Niederland                           |
| 3970   | 3964  | 4458  | 3929   | 4101  | 8    | 8    | 1     | 1     | 1     | United Kingdom                       |
| 25301  | 26593 | 21921 | 19886  | 21752 | 1248 | 984  | 941   | 1340  | 1691  | Extra-EU                             |
|  |       |       |        |       |      |      |       |       |       | darunter:                            |
| 571  | 1277  | 1329  | 1105   | 873   | -    | -    | -     | -     | -     | Norwegen                             |
| 6493   | 7515  | 3488  | 3112   | 3064  | -    | -    | -     | -     | -     | OPEC                                 |
|  |       |       |        |       |      |      |       |       |       | Nach Erzeugnissen:                   |
| 4161   | 7328  | 3650  | 5443   | 5394  | 562  | 320  | 547   | 759   | 762   | Motorenbenzin                        |
| 673  | 712   | 1144  | 1005   | 1364  | 65   | 25   | 22    | 28    | 40    | Petroleum und Flugturbinenkraftst.   |
| 11044  | 9190  | 9009  | 8559   | 7332  | 371  | 599  | 1513  | 2026  | 2493  | Dieselmkraftst. u. Destillat-Heizöle |
| 8506   | 8684  | 7924  | 7026   | 9456  | 883  | 643  | 449   | 549   | 468   | Rückstandsheizöle                    |
| <b>2. AUSFUHREN</b>                                    |       |       |        |       |      |      |       |       |       |                                      |
| 50952  | 56424 | 60333 | 60433  | 59693 | 845  | 369  | 1302  | 1507  | 1529  | Mineralölerzeugnisse insgesamt       |
|  |       |       |        |       |      |      |       |       |       | darunter:                            |
| 8968   | 13401 | 9316  | 10634  | 11283 | 231  | 281  | 831   | 823   | 824   | Motorenbenzin                        |
| 2891   | 3998  | 3674  | 3701   | 4435  | 20   | 12   | -     | 14    | 6     | Petroleum und Flugturbinenkraftst.   |
| 17722  | 15982 | 21228 | 20898  | 19831 | 35   | 3    | 271   | 440   | 459   | Dieselmkraftst. u. Destillat-Heizöle |
| 10567  | 9377  | 9166  | 9688   | 7995  | 380  | 5    | 54    | 18    | 37    | Rückstandsheizöle                    |
| <b>3. NETTOERZEUGUNG</b>                               |       |       |        |       |      |      |       |       |       |                                      |
| 53072  | 64500 | 75803 | 76547  | 73189 | 7753 | 8405 | 9649  | 9075  | 8794  | Mineralölerzeugnisse insgesamt       |
|  |       |       |        |       |      |      |       |       |       | darunter:                            |
| 10180  | 12906 | 14176 | 14976  | 13251 | 2071 | 2631 | 2410  | 2157  | 2140  | Motorenbenzin                        |
| 3868   | 5165  | 6158  | 6529   | 7162  | 187  | 322  | 504   | 542   | 509   | Petroleum und Flugturbinenkraftst.   |
| 5898   | 9790  | 11265 | 9646   | 9122  | 62   | -    | -     | 628   | -     | Nafta                                |
| 14916  | 15519 | 21200 | 21249  | 21677 | 2209 | 2770 | 3916  | 3889  | 3681  | Dieselmkraftst. u. Destillat-Heizöle |
| 11775  | 12139 | 12880 | 14109  | 10829 | 2381 | 1722 | 1534  | 1333  | 1287  | Rückstandsheizöle                    |
| <b>4. NETTOERZEUGUNG (%)</b>                           |       |       |        |       |      |      |       |       |       |                                      |
| 19.2   | 20.0  | 18.7  | 19.6   | 18.1  | 26.7 | 31.3 | 25.0  | 23.8  | 24.3  | Motorenbenzin                        |
| 7.3  | 8.0   | 8.1   | 8.5    | 9.8   | 2.4  | 3.8  | 5.2   | 6.0   | 5.8   | Petroleum und Flugturbinenkraftst.   |
| 11.1   | 15.2  | 14.9  | 12.6   | 12.5  | 0.8  | -    | -     | 6.9   | -     | Nafta                                |
| 28.1   | 24.1  | 28.0  | 27.8   | 29.6  | 28.5 | 33.0 | 40.6  | 42.9  | 41.9  | Dieselmkraftst. u. Destillat-Heizöle |
| 22.2   | 18.8  | 17.0  | 18.4   | 14.8  | 30.7 | 20.5 | 15.9  | 14.7  | 14.6  | Rückstandsheizöle                    |

**Petroleum**  
**Principal aggregates**

**Portugal**

**Suomi/Finland**

| <i>in 1000 t</i>                                    | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Crude oil, feedstocks and petroleum products</b> |       |       |       |       |       |       |       |       |       |       |
| <b>1. IMPORTS</b>                                   |       |       |       |       |       |       |       |       |       |       |
| Net imports   | 8521  | 12198 | 14573 | 15734 | 16720 | 10847 | 10423 | 10306 | 10998 | 10165 |
| <b>2. STOCKS AT END OF PERIOD</b>                   |       |       |       |       |       |       |       |       |       |       |
| Crude oil and feedstocks                            | 875   | 923   | 1073  | 853   | 1199  | 2913  | 2284  | 1228  | 1094  | 858   |
| Petroleum products                                  | 1607  | 1782  | 1695  | 1775  | 1899  | 3087  | 2014  | 2268  | 2163  | 1284  |
| <b>3. REFINING CAPACITY (1000 t/year)</b>           |       |       |       |       |       |       |       |       |       |       |
| Capacity at the end of year                         | 14400 | 14400 | 15210 | 15215 | 15215 | 12000 | 10500 | 10000 | 10000 | 10000 |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Cracking and others                                 | 1800  | 1800  | 3500  | 1600* |       |       |       | 5800  | 5600* |       |
| Reforming   | 2200  | 2200  | 2200  | 2500* |       |       |       | 2100  | 2100* |       |
| <b>Petroleum products</b>                           |       |       |       |       |       |       |       |       |       |       |
| <b>1. IMPORTS</b>                                   |       |       |       |       |       |       |       |       |       |       |
| Total petroleum products                            | 1836  | 3480  | 3199  | 3716  | 4302  | 3188  | 3386  | 4268  | 3722  | 3718  |
| <i>by origin :</i>                                  |       |       |       |       |       |       |       |       |       |       |
| Intra-EU  | 1193  | 2506  | 2278  | 2995  | 3263  | 319   | 310   | 990   | 1307  | 1052  |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Nederland   | 176   | 68    | 202   | 224   | 486   | 144   | 63    | 85    | 89    | 62    |
| United Kingdom                                      | 201   | 561   | 874   | 1011  | 951   | 44    | 61    | 209   | 240   | 97    |
| Extra-EU  | 643   | 974   | 921   | 721   | 1039  | 2869  | 3076  | 3278  | 2415  | 2666  |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Norway  | 20    | 55    | 50    | 56    | 36    | -     | 13    | 68    | 126   | 450   |
| OPEC  | 6     | 135   | 100   | 236   | 94    | 18    | 137   | 187   | 138   | -     |
| <i>by product :</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Motor spirit  | 17    | 2     | 4     | 3     | 14    | 22    | 4     | 238   | 80    | 305   |
| Kerosene and jet fuel                               | 63    | 67    | -     | -     | 1     | 17    | 17    | 36    | 747   | 474   |
| Gas / diesel oil                                    | 127   | 64    | 152   | 143   | 268   | 1124  | 1098  | 1399  | 1102  | 1232  |
| Residual fuel oil                                   | 931   | 1830  | 787   | 1578  | 1795  | 1700  | 1173  | 1560  | 953   | 978   |
| <b>2. EXPORTS</b>                                   |       |       |       |       |       |       |       |       |       |       |
| Total petroleum products                            | 508   | 2471  | 2106  | 1901  | 1389  | 2169  | 1676  | 4091  | 4655  | 4931  |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Motor spirit  | 31    | 294   | 888   | 789   | 588   | 686   | 585   | 2169  | 2248  | 2505  |
| Kerosene and jet fuel                               | 137   | 368   | 385   | 368   | 221   | 93    | 47    | 200   | 284   | 492   |
| Gas / diesel oil                                    | 108   | 344   | 309   | 290   | 78    | 1131  | 432   | 1246  | 1722  | 1577  |
| Residual fuel oil                                   | -     | 1137  | 292   | 164   | 164   | 37    | 357   | 42    | -     | -     |
| <b>3. NET PRODUCTION</b>                            |       |       |       |       |       |       |       |       |       |       |
| Total petroleum products                            | 6844  | 10407 | 12231 | 13332 | 12539 | 9859  | 9929  | 11072 | 12773 | 12460 |
| <i>among which:</i>                                 |       |       |       |       |       |       |       |       |       |       |
| Motor spirit  | 844   | 1704  | 2835  | 2792  | 2654  | 2420  | 2971  | 3811  | 4183  | 4285  |
| Kerosene and jet fuel                               | 546   | 917   | 1051  | 1078  | 965   | 358   | 494   | 593   | 804   | 986   |
| Naphtha   | 551   | 811   | 900   | 904   | 1007  | 328   | 286   | 344   | 336   | 270   |
| Gas / diesel oil                                    | 1945  | 2984  | 3906  | 4368  | 4279  | 4054  | 3663  | 4374  | 5263  | 4965  |
| Residual fuel oil                                   | 2542  | 3603  | 3023  | 3050  | 2904  | 2047  | 1610  | 1105  | 1297  | 1292  |
| <b>4. NET PRODUCTION (%)</b>                        |       |       |       |       |       |       |       |       |       |       |
| Motor spirit  | 12.3  | 16.4  | 23.2  | 20.9  | 21.2  | 24.5  | 29.9  | 34.4  | 32.7  | 34.4  |
| Kerosene and jet fuel                               | 8.0   | 8.8   | 8.6   | 8.1   | 7.7   | 3.6   | 5.0   | 5.4   | 6.3   | 7.9   |
| Naphtha   | 8.1   | 7.8   | 7.4   | 6.8   | 8.0   | 3.3   | 2.9   | 3.1   | 2.6   | 2.2   |
| Gas / diesel oil                                    | 28.4  | 28.7  | 31.9  | 32.8  | 34.1  | 41.1  | 36.9  | 39.5  | 41.2  | 39.8  |
| Residual fuel oil                                   | 37.1  | 34.6  | 24.7  | 22.9  | 23.2  | 20.8  | 16.2  | 10.0  | 10.2  | 10.4  |

Sverige

United Kingdom

| 1985   | 1990  | 1997  | 1998  | 1999  | 1985   | 1990  | 1997   | 1998   | 1999   | en 1000 t                                     |
|--|-------|-------|-------|-------|--------|-------|--------|--------|--------|---|
| <b>Pétrole brut, feedstocks et produits pétroliers</b> |       |       |       |       |        |       |        |        |        |   |
| 16978  | 14954 | 16821 | 17818 | 15947 | -48819 | -9010 | -46860 | -49614 | -55947 | <b>1. IMPORTATIONS</b><br>Importations nettes |
| <b>2. STOCKS EN FIN DE PERIODE</b>                     |       |       |       |       |        |       |        |        |        |   |
| 3890   | 1372  | 1267  | 1392  | 1362  | 7394   | 6802  | 7230   | 7823   | 8021   | Pétrole brut et feedstocks                    |
| 1287   | 4806  | 4135  | 4774  | 3799  | 9350   | 8353  | 5571   | 7533   | 6962   | Produits pétroliers                           |
| <b>3. CAPACITE DE RAFFINAGE (1000 t/an)</b>            |       |       |       |       |        |       |        |        |        |   |
| 21800  | 20100 | 20100 | 21400 | :     | 87600  | 90600 | 90900  | 92000  | 88500  | Capacité en fin d'année                       |
| <i>dont :</i>  |       |       |       |       |        |       |        |        |        |   |
| :  | :     | 5900  | 5400* | :     | 27870  | 29000 | 37000  | 27500* | :      | Craquage et autres                            |
| :  | :     | 2900  | 3600* | :     | 13970  | 15600 | 14300  | 15600* | :      | Reformage                                     |
| <b>Produits pétroliers</b>                             |       |       |       |       |        |       |        |        |        |   |
| <b>1. IMPORTATIONS</b>                                 |       |       |       |       |        |       |        |        |        |   |
| 8604   | 6193  | 6017  | 6392  | 5567  | 13414  | 10975 | 8885   | 11373  | 12614  | Total des produits pétroliers                 |
| <i>par provenance :</i>                                |       |       |       |       |        |       |        |        |        |   |
| 4517   | 3499  | 5471  | 4476  | 4011  | 7296   | 6515  | 3432   | 4687   | 4999   | Intra-UE                                      |
| <i>dont :</i>  |       |       |       |       |        |       |        |        |        |   |
| 1311   | 540   | 172   | 88    | 63    | 3117   | 3210  | 704    | 885    | 1010   | Nederland                                     |
| 2037   | 918   | 631   | 660   | 403   | -      | -     | -      | -      | -      | United Kingdom                                |
| 4087   | 2694  | 546   | 1916  | 1556  | 6118   | 4460  | 5453   | 6686   | 7615   | Extra-UE                                      |
| <i>dont :</i>  |       |       |       |       |        |       |        |        |        |   |
| 470  | 1259  | 775   | 838   | 837   | 401    | 760   | -      | 1591   | 1540   | Norvège                                       |
| 80   | 590   | 64    | 109   | 110   | 1359   | 1135  | 1205   | 1886   | 1672   | OPEP  |
| <i>par produit :</i>                                   |       |       |       |       |        |       |        |        |        |   |
| 1481   | 1396  | 1523  | 1581  | 1600  | 538    | 1938  | 1427   | 2019   | 2261   | Essences moteur                               |
| 253  | 566   | 754   | 673   | 694   | 180    | 277   | 1540   | 2791   | 3044   | Pétrole lampant et carburéacteur              |
| 2927   | 1640  | 1334  | 1631  | 1548  | 1539   | 1340  | 1866   | 3467   | 5094   | Gasoil et fuel-oil fluide                     |
| 2377   | 1017  | 686   | 923   | 475   | 8141   | 4694  | 1394   | 791    | 379    | Fuel-oil résiduel                             |
| <b>2. EXPORTATIONS</b>                                 |       |       |       |       |        |       |        |        |        |   |
| 5761   | 8255  | 9267  | 8421  | 8874  | 14829  | 16897 | 26745  | 24332  | 21655  | Total des produits pétroliers                 |
| <i>dont :</i>  |       |       |       |       |        |       |        |        |        |   |
| 719  | 962   | 2128  | 1893  | 2062  | 3571   | 4265  | 8603   | 7959   | 6330   | Essences moteur                               |
| 124  | 96    | 10    | 17    | 22    | 894    | 1294  | 1219   | 1096   | 992    | Pétrole lampant et carburéacteur              |
| 2180   | 3141  | 3497  | 3198  | 3651  | 4650   | 4430  | 6586   | 6199   | 6668   | Gasoil et fuel-oil fluide                     |
| 2042   | 3208  | 3286  | 2993  | 2752  | 3313   | 4417  | 6863   | 5834   | 4928   | Fuel-oil résiduel                             |
| <b>3. PRODUCTION NETTE</b>                             |       |       |       |       |        |       |        |        |        |   |
| 13107  | 16651 | 20959 | 20509 | 20594 | 72536  | 82284 | 90778  | 87093  | 81973  | Total des produits pétroliers                 |
| <i>dont :</i>  |       |       |       |       |        |       |        |        |        |   |
| 2996   | 3741  | 4571  | 4336  | 4303  | 22258  | 26724 | 28260  | 27392  | 25603  | Essences moteur                               |
| 540  | 536   | 150   | 101   | 41    | 7564   | 9850  | 11678  | 11413  | 10955  | Pétrole lampant et carburéacteur              |
| 129  | 165   | 1452  | 1613  | 1847  | 2883   | 2139  | 2871   | 2335   | 2464   | Naphta  |
| 4622   | 6213  | 7618  | 7509  | 7452  | 21701  | 23402 | 28779  | 27866  | 26221  | Gasoil et fuel-oil fluide                     |
| 3797   | 4639  | 5783  | 5468  | 5138  | 12896  | 13805 | 11957  | 11066  | 10290  | Fuel-oil résiduel                             |
| <b>4. PRODUCTION NETTE (%)</b>                         |       |       |       |       |        |       |        |        |        |   |
| 22.9   | 22.5  | 21.8  | 21.1  | 20.9  | 30.7   | 32.5  | 31.1   | 31.5   | 31.2   | Essences moteur                               |
| 4.1  | 3.2   | 0.7   | 0.5   | 0.2   | 10.4   | 12.0  | 12.9   | 13.1   | 13.4   | Pétrole lampant et carburéacteur              |
| 1.0  | 1.0   | 6.9   | 7.9   | 9.0   | 4.0    | 2.6   | 3.2    | 2.7    | 3.0    | Naphta  |
| 35.3   | 37.3  | 36.3  | 36.6  | 36.2  | 29.9   | 28.4  | 31.7   | 32.0   | 32.0   | Gasoil et fuel-oil fluide                     |
| 29.0   | 27.9  | 27.6  | 26.7  | 24.9  | 17.8   | 16.8  | 13.2   | 12.7   | 12.6   | Fuel-oil résiduel                             |



Gas  
Gaz

**Gas**  
**Principal aggregates**

EU-15

Belgique/België

| <i>in 1000 TJ(GCV)</i>                               | 1985    | 1990     | 1997     | 1998     | 1999     | 1985   | 1990   | 1997   | 1998   | 1999   |
|--|---------|----------|----------|----------|----------|--------|--------|--------|--------|--------|
| <b>Natural gas</b>                                   |         |          |          |          |          |        |        |        |        |        |
| <b>1. BALANCE</b>                                    |         |          |          |          |          |        |        |        |        |        |
| Primary production                                   | 6134805 | 6181168  | 8472350  | 8441837  | 8627973  | 1591   | 450    | 6      | -      | 17     |
| Total imports  | 4600661 | 5596042  | 7593984  | 7830629  | 8777164  | 338945 | 382255 | 524752 | 578325 | 627253 |
| Total exports  | 1408970 | 1302352  | 1817743  | 1713665  | 1924471  | -      | -      | -      | -      | -      |
|  |         |          |          | 118215   | -208074  | 376    | -2681  | -724   | 1978   | -6685  |
| Gross inland consumption                             | 9209544 | 10330081 | 14074155 | 14677016 | 15272592 | 340912 | 380024 | 524034 | 580303 | 620585 |
| Inland market consumption                            | 8766828 | 9879245  | 13262754 | 13788523 | 14571924 | 331044 | 378609 | 525201 | 578453 | 617197 |
| <i>among which:</i>                                  |         |          |          |          |          |        |        |        |        |        |
| Power stations                                       | 1104774 | 1399855  | 3020764  | 3228349  | 3707637  | 26722  | 61349  | 108260 | 140696 | 164107 |
| Non-energy use                                       | 680309  | 577969   | 512115   | 515948   | 506060   | 21740  | 19500  | 33700  | 32258  | 39015  |
| Industry   | 2507905 | 3088516  | 3625699  | 3742112  | 3901112  | 97286  | 134092 | 166535 | 174742 | 190916 |
| <i>among which:</i>                                  |         |          |          |          |          |        |        |        |        |        |
| Iron & steel industry                                | 373064  | 377732   | 415737   | 422652   | 422354   | 27563  | 27822  | 28392  | 32021  | 30096  |
| Chemical industry                                    | 675250  | 768694   | 824429   | 840662   | 910910   | 27490  | 35809  | 53194  | 56800  | 69414  |
| Non-metallic mineral products                        | 385979  | 487662   | 559576   | 579476   | 616045   | 19849  | 22208  | 19400  | 18978  | 19551  |
| Food, drink, tobacco                                 | 269881  | 348941   | 488748   | 501893   | 531041   | 4480   | 6323   | 9133   | 7784   | 8707   |
| Engineering & metal industry                         | 343485  | 360574   | 388988   | 432508   | 433263   | 7638   | 7491   | 7241   | 6584   | 7241   |
| Transport  | 11198   | 9664     | 13858    | 13573    | 13899    | -      | -      | -      | -      | -      |
| Services & households etc.                           | 4254844 | 4585110  | 6006092  | 6188445  | 6345546  | 185296 | 163668 | 216706 | 227673 | 221728 |
| <i>among which:</i>                                  |         |          |          |          |          |        |        |        |        |        |
| Households   | 3004076 | 3458296  | 4305981  | 4439005  | 4585211  | 122280 | 115525 | 148670 | 157086 | 152293 |
| <b>2. IMPORTS</b>                                    |         |          |          |          |          |        |        |        |        |        |
| Intra-EU total                                       | 1320037 | 1228555  | 1586661  | 1382358  | 1437205  | 166751 | 139975 | 179300 | 204660 | 258779 |
| Extra-EU total                                       | 3280624 | 4367487  | 6007323  | 6448271  | 7339959  | 172194 | 242280 | 345452 | 373665 | 368474 |
| <i>among which :</i>                                 |         |          |          |          |          |        |        |        |        |        |
| CIS  | 1172352 | 1972001  | 2430185  | 2666042  | 2918580  | -      | -      | -      | -      | -      |
|  |         |          |          | 1846631  | 2122014  | 100417 | 159978 | 184396 | 170176 | 178818 |
| Norway   | 1024356 | 1030691  | 1741842  | 1715908  | 1837989  | 71778  | 86626  | 161056 | 203489 | 189656 |
| <b>3. NETWORK OF TRANSPORTATION AND DISTRIBUTION</b> |         |          |          |          |          |        |        |        |        |        |
| Length of network (km)                               | :       | :        | :        | :        | :        | 33350  | 36040  | 46480  | 48220  | :      |
| Storage capacity (Mio m <sup>3</sup> )               | :       | :        | :        | :        | :        | -      | 900    | 1330   | 1330   | :      |
| <b>Derived gases</b>                                 |         |          |          |          |          |        |        |        |        |        |
| <b>BALANCE</b>                                       |         |          |          |          |          |        |        |        |        |        |
| Production   | 1305648 | 1162395  | 854192   | 824643*  | 773181*  | 90230  | 85473  | 60154  | 61984  | 62554  |
| <i>of which:</i>                                     |         |          |          |          |          |        |        |        |        |        |
| Coke-oven gas  | 572357  | 478948   | 329766   | 320709*  | 289997*  | 44945  | 39627  | 24311  | 23828  | 23873  |
| Blast-furnace gas                                    | 562300  | 542718   | 507080   | 495913   | 476028*  | 45285  | 45846  | 35843  | 38156  | 38681  |
| Gasworks gas   | 170991  | 140729   | 17346    | 8021     | 7156     | -      | -      | -      | -      | -      |
| Inland market consumption                            | 988567  | 888923   | 663114   | 649270*  | 623990*  | 67500  | 65642  | 48273  | 51148  | 51854  |
| <i>among which:</i>                                  |         |          |          |          |          |        |        |        |        |        |
| Power stations                                       | 265725  | 277243   | 252008   | 286280*  | 291018*  | 28843  | 28719  | 27489  | 27126  | 25807  |
| Industry   | 562649  | 491673   | 397723   | 349535*  | 323439*  | 38657  | 36923  | 20784  | 24022  | 26047  |
| <i>among which:</i>                                  |         |          |          |          |          |        |        |        |        |        |
| Iron & steel industry                                | 487117  | 431694   | 375785   | 330207*  | 308683*  | 38657  | 36020  | 20784  | 24022  | 26047  |
| Services & households etc.                           | 138301  | 107136   | 9694     | 10058*   | 9104*    | -      | -      | -      | -      | -      |



**Danmark**

**Deutschland**

| 1985                    | 1990   | 1997   | 1998   | 1999   | 1985    | 1990    | 1997    | 1998    | 1999    | in 1000 TJ (Ho)                       |  |  |  |  |
|-------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------------------------------------|--|--|--|--|
| <b>Naturgas</b>         |        |        |        |        |         |         |         |         |         |                                       |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <b>1. BILANZ</b>                      |  |  |  |  |
| 45111                   | 127277 | 323694 | 314633 | 322833 | 758340  | 638758  | 747980  | 728981  | 777245  | Primärerzeugung                       |  |  |  |  |
| -                       | -      | -      | -      | -      | 1649833 | 1990457 | 2845235 | 2760192 | 2865234 | Einführen insgesamt                   |  |  |  |  |
| 18444                   | 43102  | 129360 | 116562 | 118777 | 47710   | 45148   | 139563  | 152992  | 199636  | Ausführen insgesamt                   |  |  |  |  |
| -333                    | -1120  | -14686 | -1574  | 1749   | -54113  | -25250  | -106618 | 47160   | -93600  | Bestandsveränderungen                 |  |  |  |  |
| 26334                   | 83055  | 179648 | 196497 | 205805 | 2306350 | 2558817 | 3347034 | 3383341 | 3349243 | Bruttoinlandsverbrauch                |  |  |  |  |
| 23184                   | 74596  | 157001 | 170551 | 178406 | 2156277 | 2382996 | 3016269 | 3051247 | 3148758 | Verbrauch des Inlandsmarktes          |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>darunter:</i>                      |  |  |  |  |
| 3517                    | 6330   | 69088  | 87335  | 94575  | 245677  | 373437  | 546960  | 509820  | 514157  | Wärme kraftwerke                      |  |  |  |  |
| -                       | -      | -      | -      | -      | 141713  | 104901  | 98232   | 100000  | 100000  | Nicht-energetischer Verbrauch         |  |  |  |  |
| 5778                    | 24352  | 38808  | 37078  | 37759  | 744434  | 793012  | 826614  | 839067  | 863601  | Industrie                             |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>darunter:</i>                      |  |  |  |  |
| 561                     | 2876   | 1892   | 1945   | 2015   | 142870  | 124266  | 118132  | 107388  | 112961  | Stahlindustrie                        |  |  |  |  |
| 431                     | 3798   | 3367   | 3422   | 3927   | 230534  | 249869  | 213609  | 216242  | 223487  | Chemie                                |  |  |  |  |
| 1210                    | 5626   | 5908   | 6298   | 6807   | 97133   | 108463  | 125818  | 133106  | 130808  | Steine, Erden, Glas, Keramik          |  |  |  |  |
| 1427                    | 8510   | 15705  | 13716  | 12552  | 59567   | 71987   | 84656   | 84125   | 91464   | Nahrungs- u. Genussmittel             |  |  |  |  |
| 289                     | 180    | 4588   | 4709   | 4993   | 110270  | 114146  | 94857   | 120885  | 118204  | Eisen- u. Metallverarbeitung          |  |  |  |  |
| -                       | -      | -      | -      | -      | -       | -       | -       | -       | -       | Verkehr                               |  |  |  |  |
| 13889                   | 26586  | 44209  | 42070  | 42459  | 849398  | 919308  | 1483477 | 1532000 | 1601000 | Dienstleistungen & Haushalte usw.     |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>darunter:</i>                      |  |  |  |  |
| 10582                   | 16758  | 30902  | 31649  | 31453  | 581781  | 641310  | 1060767 | 1100000 | 1155000 | Haushalte                             |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <b>2. EINFUHREN</b>                   |  |  |  |  |
| -                       | -      | -      | -      | -      | 674120  | 669743  | 940613  | 746474  | 704733  | Intra-EU insgesamt                    |  |  |  |  |
| -                       | -      | -      | -      | -      | 975713  | 1320714 | 1904622 | 2013718 | 2160501 | Extra-EU insgesamt                    |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>davon:</i>                         |  |  |  |  |
| -                       | -      | -      | -      | -      | 482873  | 747488  | 1149679 | 1225235 | 1290507 | GUS                                   |  |  |  |  |
| -                       | -      | -      | -      | -      | -       | -       | -       | -       | -       | Algerien                              |  |  |  |  |
| -                       | -      | -      | -      | -      | 248114  | 335957  | 754943  | 695423  | 720273  | Norwegen                              |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <b>3. LEITUNGSNETZ U. VERTEILUNG</b>  |  |  |  |  |
| -                       | 13583  | 17536  | 17748  | -      | -       | 209581  | 335500  | 347700  | -       | Leitungslänge (km)                    |  |  |  |  |
| -                       | 1500   | 1845   | 1750   | -      | -       | 15943   | 29049   | 29700   | -       | Lagerkapazität (Mio. m <sup>3</sup> ) |  |  |  |  |
| <b>Abgeleitete Gase</b> |        |        |        |        |         |         |         |         |         |                                       |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <b>BILANZ</b>                         |  |  |  |  |
| 1510                    | -      | -      | -      | -      | 569264  | 479184  | 267000  | 250260* | 237360* | Erzeugung                             |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>davon:</i>                         |  |  |  |  |
| -                       | -      | -      | -      | -      | 248083  | 189062  | 89000   | 89000*  | 89000*  | Kokereigas                            |  |  |  |  |
| -                       | -      | -      | -      | -      | 196352  | 179959  | 168000  | 160900  | 148000* | Hochofengas                           |  |  |  |  |
| 1510                    | -      | -      | -      | -      | 124829  | 110163  | 10000   | 360     | 360     | Ortsgas                               |  |  |  |  |
| 3835                    | 1600   | 990    | 887    | 747    | 428565  | 363247  | 203000  | 195900* | 186450* | Verbrauch des Inlandsmarktes          |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>darunter:</i>                      |  |  |  |  |
| -                       | -      | -      | -      | -      | 91228   | 89139   | 69000   | 70413*  | 67729*  | Wärme kraftwerke                      |  |  |  |  |
| 310                     | 120    | 139    | 145    | 122    | 233290  | 189146  | 133000  | 124487* | 117721* | Industrie                             |  |  |  |  |
|                         |        |        |        |        |         |         |         |         |         | <i>darunter:</i>                      |  |  |  |  |
| -                       | -      | -      | -      | -      | 169187  | 145730  | 120500  | 111987* | 105221* | Eisen- und Stahlindustrie             |  |  |  |  |
| 3525                    | 1480   | 851    | 742    | 625    | 92019   | 76214   | 1000    | 1000*   | 1000*   | Dienstleistungen & Haushalte usw.     |  |  |  |  |

**Gas**  
**Principal aggregates**

Ellada

España

| <i>in 1000 TJ(GCV)</i>                               | 1985 | 1990 | 1997 | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   |
|--|------|------|------|-------|-------|--------|--------|--------|--------|--------|
| <b>Natural gas</b>                                   |      |      |      |       |       |        |        |        |        |        |
| <b>1. BALANCE</b>                                    |      |      |      |       |       |        |        |        |        |        |
| Primary production                                   | 3322 | 6404 | 2088 | 1874  | 117   | 10680  | 59228  | 7571   | 4762   | 6084   |
| Total imports  | -    | -    | 6017 | 32111 | 56575 | 99420  | 171653 | 536854 | 560924 | 646766 |
| Total exports  | -    | -    | -    | -     | -     | -      | -      | -      | -      | -      |
| Gross inland consumption                             | 3322 | 6404 | 7955 | 33747 | 56660 | 109409 | 231228 | 526057 | 540052 | 618220 |
| Inland market consumption                            | 1822 | 5241 | 6678 | 32379 | 56630 | 107340 | 225375 | 514755 | 526657 | 605970 |
| <i>among which:</i>                                  |      |      |      |       |       |        |        |        |        |        |
| Power stations                                       | -    | 1452 | 3266 | 16398 | 40311 | 26187  | 12546  | 129519 | 98499  | 137847 |
| Non-energy use                                       | 1822 | 3789 | 1868 | 9367  | 6951  | 307    | 17416  | 24574  | 22906  | 15000  |
| Industry   | -    | -    | 1544 | 5996  | 8842  | 55103  | 156670 | 282654 | 313623 | 342767 |
| <i>among which:</i>                                  |      |      |      |       |       |        |        |        |        |        |
| Iron & steel industry                                | -    | -    | 115  | 1326  | 2302  | 12196  | 14740  | 24129  | 28499  | 31426  |
| Chemical industry                                    | -    | -    | -    | 147   | 372   | 11640  | 31990  | 54495  | 57986  | 67987  |
| Non-metallic mineral products                        | -    | -    | 99   | 1217  | 1319  | 16491  | 44625  | 76060  | 84252  | 106251 |
| Food, drink, tobacco                                 | -    | -    | 1174 | 1811  | 2475  | 3176   | 11767  | 27613  | 30805  | 34841  |
| Engineering & metal industry                         | -    | -    | 9    | 74    | 62    | 2653   | 12640  | 23679  | 31878  | 26006  |
| Transport  | -    | -    | -    | -     | -     | -      | -      | 213    | 272    | 483    |
| Services & households etc.                           | -    | -    | -    | 618   | 526   | 8372   | 27108  | 77347  | 90984  | 109873 |
| <i>among which:</i>                                  |      |      |      |       |       |        |        |        |        |        |
| Households   | -    | -    | -    | 618   | 181   | 5670   | 18037  | 56666  | 66670  | 81519  |
| <b>2. IMPORTS</b>                                    |      |      |      |       |       |        |        |        |        |        |
| Intra-EU total                                       | -    | -    | -    | -     | -     | -      | -      | -      | -      | -      |
| Extra-EU total                                       | -    | -    | 6017 | 32111 | 56575 | 99420  | 171653 | 536854 | 560924 | 646766 |
| <i>among which :</i>                                 |      |      |      |       |       |        |        |        |        |        |
| CIS  | -    | -    | 6017 | 32111 | 56575 | -      | -      | -      | -      | -      |
| Norway   | -    | -    | -    | -     | -     | 64091  | 129437 | 361696 | 373856 | 416533 |
| <b>3. NETWORK OF TRANSPORTATION AND DISTRIBUTION</b> |      |      |      |       |       |        |        |        |        |        |
| Length of network (km)                               | -    | -    | 2165 | 2174  | -*    | -      | 14046  | 27022  | 30131  | -      |
| Storage capacity (Mio m <sup>3</sup> )               | -    | -    | -    | -     | -     | -      | 915    | 3395   | 3395   | -      |
| <b>Derived gases</b>                                 |      |      |      |       |       |        |        |        |        |        |
| <b>BALANCE</b>                                       |      |      |      |       |       |        |        |        |        |        |
| Production   | 545  | 692  | 631  | -     | -     | 76111  | 64010  | 43845  | 44790  | 37881  |
| <i>of which:</i>                                     |      |      |      |       |       |        |        |        |        |        |
| Coke-oven gas  | -    | -    | -    | -     | -     | 29784  | 22704  | 21908  | 22255  | 17300  |
| Blast-furnace gas                                    | -    | -    | -    | -     | -     | 28410  | 27208  | 20609  | 20573  | 19196  |
| Gasworks gas   | 545  | 692  | 631  | -     | -     | 17917  | 14098  | 1328   | 1962   | 1385   |
| Inland market consumption                            | 405  | 690  | 2175 | -     | -     | 62974  | 51843  | 29769  | 33291  | 27591  |
| <i>among which:</i>                                  |      |      |      |       |       |        |        |        |        |        |
| Power stations                                       | -    | -    | -    | -     | -     | 8324   | 9334   | 11617  | 13947  | 16151  |
| Industry   | 289  | 352  | 1781 | -     | -     | 36212  | 29604  | 16608  | 17080  | 9755   |
| <i>among which:</i>                                  |      |      |      |       |       |        |        |        |        |        |
| Iron & steel industry                                | -    | -    | -    | -     | -     | 32728  | 28085  | 16608  | 17080  | 9755   |
| Services & households etc.                           | 116  | 338  | 394  | -     | -     | 17158  | 12905  | 1328   | 1962   | 1385   |

France

Ireland

| 1985               | 1990    | 1997    | 1998    | 1999    | 1985   | 1990  | 1997   | 1998   | 1999   | en 1000 TJ(PCS)                            |
|--------------------|---------|---------|---------|---------|--|-------|--------|--------|--------|--|
| <b>Gaz naturel</b> |         |         |         |         |  |       |        |        |        |  |
|                    |         |         |         |         | <b>1. BILAN</b>                                  |       |        |        |        |  |
| 211075             | 112615  | 98949   | 85475   | 77692   | 90394  | 88097 | 88678  | 65448  | 51329  | Production primaire                        |
| 938923             | 1133737 | 1419433 | 1434395 | 1649710 | -  | -     | 40261  | 64933  | 88099  | Importations totales                       |
| 3601               | 12435   | 54072   | 32836   | 30456   | -  | -     | -      | -      | -      | Exportations totales                       |
| -20884             | -88906  | -6433   | 67345   | -92880  | 141  | 2     | -      | -      | -      | Variations de stocks                       |
| 1125513            | 1145011 | 1457877 | 1554379 | 1604066 | 90535  | 88099 | 128939 | 130381 | 139428 | Consommation intérieure brute              |
| 1103624            | 1147069 | 1456022 | 1491744 | 1562903 | 89694  | 85975 | 126745 | 128901 | 137416 | Consommation du marché intérieur           |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 23648              | 20354   | 32710   | 33714   | 49805   | 59204  | 39130 | 64569  | 62693  | 70200  | Centrales électriques                      |
| 107532             | 88722   | 106934  | 106776  | 103176  | 16909  | 20130 | 21659  | 21370  | 19029  | Usages non énergétiques                    |
| 390360             | 441196  | 519066  | 546884  | 557054  | 9797   | 16903 | 17644  | 18610  | 18815  | Industrie                                  |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 39494              | 27187   | 37854   | 44244   | 39625   | -  | 812   | 804    | 838    | 964    | Sidérurgie                                 |
| 98976              | 98672   | 80482   | 85424   | 95573   | -  | 4295  | 5860   | 6110   | 6026   | Chimie                                     |
| 59893              | 71546   | 74956   | 71310   | 78185   | -  | 2749  | 2107   | 2197   | 1247   | Prod. minéraux non métalliques             |
| 45233              | 66600   | 97502   | 102971  | 106499  | -  | 5299  | 6758   | 7046   | 5796   | Alimentation, boissons, tabac              |
| 60332              | 62568   | 69091   | 71186   | 74146   | -  | -     | -      | -      | -      | Fabrications métalliques                   |
| 58                 | 7       | 14      | 14      | 14      | -  | -     | -      | -      | -      | Transport                                  |
| 582026             | 596790  | 797298  | 804356  | 852854  | 1483   | 9812  | 22873  | 26228  | 29372  | Services & ménages etc.                    |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 309391             | 306497  | 411422  | 406970  | 441684  | 900  | 5381  | 13270  | 15718  | 17959  | Ménages                                    |
|                    |         |         |         |         | <b>2. IMPORTATIONS</b>                           |       |        |        |        |  |
| 275436             | 138922  | 188168  | 199202  | 205682  | -  | -     | 40261  | 64933  | 88099  | Intra-UE total                             |
| 663487             | 994815  | 1231265 | 1235193 | 1444028 | -  | -     | -      | -      | -      | Extra-UE total                             |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 250723             | 393408  | 405029  | 400479  | 482256  | -  | -     | -      | -      | -      | CEI  |
| 305179             | 376022  | 384012  | 400723  | 414641  | -  | -     | -      | -      | -      | Algérie                                    |
| 105044             | 224652  | 442224  | 433991  | 536137  | -  | -     | -      | -      | -      | Norvège                                    |
|                    |         |         |         |         | <b>3. RESEAU DE TRANSPORT ET DE DISTRIBUTION</b> |       |        |        |        |  |
| -                  | 149312  | 177842  | 178517  | :       | -  | 3700  | 6752   | 6752   | :      | Longueur du réseau (km)                    |
| -                  | 18700   | 22300   | 22600   | :       | -  | -     | -      | -      | -      | Capacité de stockage (Mio m <sup>3</sup> ) |
| <b>Gaz dérivés</b> |         |         |         |         |  |       |        |        |        |  |
| 153774             | 131202  | 109584  | 111046  | 112205  | 2293   | -     | -      | -      | -      | Production                                 |
|                    |         |         |         |         | <i>soit :</i>                                    |       |        |        |        |  |
| 71082              | 56124   | 43794   | 43690   | 43859   | -  | -     | -      | -      | -      | Gaz de cokeries                            |
| 82692              | 75078   | 65790   | 67356   | 68346   | -  | -     | -      | -      | -      | Gaz de hauts-fourneaux                     |
| -                  | -       | -       | -       | -       | 2293   | -     | -      | -      | -      | Gaz d'usines                               |
| 129806             | 104666  | 86245   | 92062*  | 92356*  | 2056   | -     | -      | -      | -      | Consommation du marché intérieur           |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 43696              | 42055   | 33930   | 38081   | 42599   | -  | -     | -      | -      | -      | Centrales électriques                      |
| 73917              | 59090   | 48233   | 50087   | 48277*  | 571  | -     | -      | -      | -      | Industrie                                  |
|                    |         |         |         |         | <i>dont :</i>                                    |       |        |        |        |  |
| 72528              | 58114   | 43074   | 45237   | 47037   | -  | -     | -      | -      | -      | Sidérurgie                                 |
| 5173               | 1717    | 1598    | 1494    | 1480*   | 1485   | -     | -      | -      | -      | Services & ménages etc.                    |

**Gas**  
**Principal aggregates**

**Italia**

**Luxembourg**

| <i>in 1000 TJ(GCV)</i>                               | 1985    | 1990    | 1997    | 1998    | 1999    | 1985  | 1990  | 1997  | 1998  | 1999  |
|--|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|
| <b>Natural gas</b>                                   |         |         |         |         |         |       |       |       |       |       |
| <b>1. BALANCE</b>                                    |         |         |         |         |         |       |       |       |       |       |
| Primary production                                   | 536770  | 652664  | 734074  | 724243  | 665836  | -     | -     | -     | -     | -     |
| Total imports  | 746185  | 1177468 | 1489138 | 1624813 | 1885340 | 14107 | 19990 | 29131 | 29434 | 30511 |
| Total exports  | -       | -       | 1600    | 1791    | 1943    | -     | -     | -     | -     | -     |
|  |         |         |         | 31128   | 35814   | -     | -     | -     | -     | -     |
| Gross inland consumption                             | 1265190 | 1815031 | 2209041 | 2378393 | 2585047 | 14107 | 19990 | 29131 | 29434 | 30511 |
| Inland market consumption                            | 1254673 | 1799258 | 2184043 | 2357809 | 2567371 | 14057 | 20049 | 29068 | 29332 | 30381 |
| <i>among which:</i>                                  |         |         |         |         |         |       |       |       |       |       |
| Power stations                                       | 240978  | 376028  | 538802  | 629550  | 771144  | 54    | 516   | 1930  | 1895  | 1964  |
| Non-energy use                                       | 90145   | 78040   | 44122   | 43351   | 44034   | -     | -     | -     | -     | -     |
| Industry   | 363340  | 603391  | 698644  | 713754  | 737985  | 6883  | 12989 | 17795 | 17379 | 19360 |
| <i>among which:</i>                                  |         |         |         |         |         |       |       |       |       |       |
| Iron & steel industry                                | 66185   | 85821   | 78449   | 80389   | 73835   | 5195  | 7467  | 6852  | 6100  | 8521  |
| Chemical industry                                    | 79735   | 125684  | 128552  | 129198  | 148322  | -     | -     | -     | -     | -     |
| Non-metallic mineral products                        | 93900   | 118631  | 150950  | 153725  | 155901  | 1687  | -     | -     | -     | -     |
| Food, drink, tobacco                                 | 33610   | 46188   | 74944   | 79350   | 83617   | -     | -     | -     | -     | -     |
| Engineering & metal industry                         | 35180   | 40400   | 90641   | 93407   | 92377   | -     | -     | -     | -     | -     |
| Transport  | 11140   | 9657    | 12917   | 13287   | 13402   | -     | -     | -     | -     | -     |
| Services & households etc.                           | 536285  | 723211  | 889558  | 957867  | 1000806 | 7120  | 6544  | 9343  | 10058 | 9057  |
| <i>among which:</i>                                  |         |         |         |         |         |       |       |       |       |       |
| Households   | 436000  | 722176  | 884072  | 952431  | 995255  | 6600  | 6544  | 9343  | -     | -     |
| <b>2. IMPORTS</b>                                    |         |         |         |         |         |       |       |       |       |       |
| Intra-EU total                                       | 176765  | 230709  | 190462  | 114948  | 109309  | 14107 | 19990 | 2538  | 2194  | 1976  |
| Extra-EU total                                       | 569420  | 946759  | 1298676 | 1509865 | 1776031 | -     | -     | 26593 | 27240 | 28535 |
| <i>among which :</i>                                 |         |         |         |         |         |       |       |       |       |       |
| CIS  | 234025  | 543029  | 523646  | 636003  | 727443  | -     | -     | -     | -     | -     |
|  |         |         |         | 869442  | 1021156 | -     | -     | -     | -     | -     |
| Norway   | -       | -       | -       | -       | -       | -     | -     | 26593 | 27240 | 28535 |
| <b>3. NETWORK OF TRANSPORTATION AND DISTRIBUTION</b> |         |         |         |         |         |       |       |       |       |       |
| Length of network (km)                               | -       | 155000  | 197100  | 197100  | -       | -     | 913   | 1080  | 1080  | -     |
| Storage capacity (Mio.m <sup>3</sup> )               | -       | -       | -       | -       | -       | -     | -     | -     | -     | -     |
| <b>Derived gases</b>                                 |         |         |         |         |         |       |       |       |       |       |
| <b>BALANCE</b>                                       |         |         |         |         |         |       |       |       |       |       |
| Production   | 136770  | 121767  | 96204   | 85902   | 62567   | 17426 | 15851 | 2940  | -     | -     |
| <i>of which:</i>                                     |         |         |         |         |         |       |       |       |       |       |
| Coke-oven gas  | 56574   | 53765   | 44804   | 38564   | 18833   | -     | -     | -     | -     | -     |
| Blast-furnace gas                                    | 68274   | 58066   | 51147   | 47135   | 43734   | 17426 | 15851 | 2940  | -     | -     |
| Gasworks gas   | 11922   | 9936    | 253     | 203     | -       | -     | -     | -     | -     | -     |
| Inland market consumption                            | 85253   | 79534   | 68358   | 62383   | 54523   | 17426 | 14811 | 2747  | -     | -     |
| <i>among which:</i>                                  |         |         |         |         |         |       |       |       |       |       |
| Power stations                                       | 31938   | 35713   | 40510   | 45236   | 44213   | 4323  | 6365  | 1346  | -     | -     |
| Industry   | 40239   | 32867   | 26927   | 16396   | 10310   | 13103 | 8446  | 1401  | -     | -     |
| <i>among which:</i>                                  |         |         |         |         |         |       |       |       |       |       |
| Iron & steel industry                                | 38669   | 31611   | 25868   | 15341   | 10213   | 13000 | 8446  | 1401  | -     | -     |
| Services & households etc.                           | 11599   | 9841    | 253     | 203     | -       | -     | -     | -     | -     | -     |

**Niederland**

**Österreich**

| 1985               | 1990    | 1997    | 1998    | 1999    | 1985   | 1990   | 1997   | 1998   | 1999   | in 1000 TJ (Ho)                      |
|--------------------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------------------------------------|
| <b>Gaz naturel</b> |         |         |         |         |        |        |        |        |        |                                      |
| 2768860            | 2540607 | 2818715 | 2680135 | 2517547 | 46943  | 51529  | 56545  | 62084  | 68777  | <b>1. BILANZ</b>                     |
| 73538              | 94532   | 240674  | 240252  | 360586  | 169412 | 208797 | 238590 | 246423 | 241433 | Primärerzeugung                      |
| 1339215            | 1201667 | 1415150 | 1295709 | 1269699 | -      | -      | -      | -      | -      | Einfuhren insgesamt                  |
| 546                | -194    | -541    | 1007    | 270     | -2391  | -16727 | 9059   | 4585   | 7554   | Ausfuhren insgesamt                  |
| 1503729            | 1433278 | 1643698 | 1625685 | 1608704 | 213964 | 243599 | 304194 | 313092 | 317764 | Bestandsveränderungen                |
| 1497117            | 1400786 | 1597496 | 1583101 | 1539494 | 191766 | 224260 | 283656 | 287228 | 289675 | Bruttoinlandsverbrauch               |
| 374283             | 330704  | 475369  | 485898  | 491520  | 54979  | 82704  | 95939  | 95689  | 92886  | Verbrauch des Inlandsmarktes         |
| 99547              | 105913  | 124978  | 118869  | 117864  | 20594  | 18461  | 11736  | 11609  | 11708  | <i>darunter :</i>                    |
| 316152             | 303053  | 273507  | 269328  | 265747  | 57077  | 67776  | 97971  | 99211  | 93811  | Wärme kraftwerke                     |
| 15044              | 14075   | 14418   | 14347   | 14668   | 13728  | 16100  | 21936  | 19820  | 16793  | Nicht-energetischer Verbrauch        |
| 150156             | 154735  | 108101  | 105380  | 95989   | 10127  | 9508   | 11118  | 12765  | 10068  | Industrie                            |
| 23973              | 28133   | 29388   | 27579   | 27834   | 8536   | 10830  | 12976  | 14095  | 13932  | <i>darunter :</i>                    |
| 51911              | 50508   | 57619   | 58457   | 62158   | 5040   | 8843   | 10021  | 10928  | 10808  | Stahlindustrie                       |
| 22198              | 20819   | 24635   | 24875   | 25464   | 3529   | 2882   | 4315   | 7008   | 8556   | Chemie                               |
| -                  | -       | -       | -       | -       | -      | -      | 714    | -      | -      | Steine, Erden, Glas, Keramik         |
| 707135             | 661116  | 723642  | 709006  | 664363  | 59116  | 55319  | 67980  | 71484  | 84763  | Nahrungs- u. Genussmittel            |
| 450000             | 365768  | 393904  | 374560  | 371044  | 59116  | 55319  | 50042  | 47402  | 50117  | Eisen- u. Metallverarbeitung         |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Verkehr                              |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Dienstleistungen & Haushalte usw.    |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | <i>darunter :</i>                    |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Haushalte                            |
| -                  | -       | -       | -       | -       | 9375   | 5003   | 11880  | 12473  | 14385  | <b>2. EINFUHREN</b>                  |
| 73538              | 94532   | 240674  | 240252  | 360586  | 160037 | 203794 | 226710 | 233950 | 227048 | Intra-EU insgesamt                   |
| -                  | -       | -       | -       | -       | 158814 | 182914 | 210593 | 217043 | 206516 | Extra-EU insgesamt                   |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | <i>davon :</i>                       |
| 73541              | 100797  | 218117  | 208923  | 221184  | -      | -      | 16117  | 16907  | 20532  | GUS                                  |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Algerien                             |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Norwegen                             |
|                    |         |         |         |         |        |        |        |        |        | <b>3. LEITUNGSNETZ U. VERTEILUNG</b> |
| :                  | :       | :       | :       | :       | :      | :      | :      | :      | :      | Leitungslänge (km)                   |
| :                  | :       | :       | :       | :       | :      | :      | :      | :      | :      | Lagerkapazität (Mio m³)              |
| <b>Gaz dérivés</b> |         |         |         |         |        |        |        |        |        |                                      |
| 56493              | 54979   | 62832   | 61053   | 55777   | 32991  | 31762  | 30132  | 30075  | 30208  | <b>BILANZ</b>                        |
| 27428              | 26479   | 26383   | 24098   | 19766   | 14342  | 14574  | 11604  | 12166  | 12220  | Erzeugung                            |
| 29065              | 28500   | 36449   | 36955   | 36011   | 17513  | 16175  | 18528  | 17909  | 17988  | <i>davon :</i>                       |
| -                  | -       | -       | -       | -       | 1136   | 1013   | -      | -      | -      | Kokereigas                           |
| 47401              | 46135   | 49626   | 48904   | 46603   | 26652  | 25740  | 26632  | 26101  | 26558  | Hochofengas                          |
| 22254              | 23189   | 27969   | 29129   | 29167   | 5737   | 8378   | 10366  | 10400  | 11272  | Ortsgas                              |
| 25147              | 22946   | 21657   | 19775   | 17436   | 19375  | 15759  | 16266  | 15701  | 15286  | Verbrauch des Inlandsmarktes         |
| 24947              | 20740   | 21657   | 19775   | 17436   | 18999  | 15428  | 16266  | 15701  | 15286  | <i>darunter :</i>                    |
| -                  | -       | -       | -       | -       | 1540   | 970    | -      | -      | -      | Wärme kraftwerke                     |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Industrie                            |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | <i>darunter :</i>                    |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Eisen- und Stahlindustrie            |
| -                  | -       | -       | -       | -       | -      | -      | -      | -      | -      | Dienstleistungen & Haushalte usw.    |

**Gas**  
**Principal aggregates**

Portugal

Suomi/Finland

| <i>in 1000 TJ(GCV)</i>                               | 1985 | 1990 | 1997 | 1998  | 1999  | 1985  | 1990   | 1997   | 1998   | 1999   |
|--|------|------|------|-------|-------|-------|--------|--------|--------|--------|
| <b>Natural gas</b>                                   |      |      |      |       |       |       |        |        |        |        |
| <b>1. BALANCE</b>                                    |      |      |      |       |       |       |        |        |        |        |
| Primary production                                   | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| Total imports  | -    | -    | 4616 | 32434 | 90866 | 37175 | 105162 | 135221 | 155171 | 155283 |
| Total exports  | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| Gross inland consumption                             | -    | -    | 4032 | 32434 | 90234 | 37175 | 105162 | 135221 | 155171 | 155283 |
| Inland market consumption                            | -    | -    | 3993 | 32072 | 89792 | 37174 | 105005 | 134822 | 154333 | 154254 |
| <i>among which:</i>                                  |      |      |      |       |       |       |        |        |        |        |
| Power stations                                       | -    | -    | 1117 | 17555 | 62969 | 14524 | 42409  | 65954  | 76955  | 77441  |
| Non-energy use                                       | -    | -    | -    | -     | -     | -     | 1097   | 1476   | 1436   | 1277   |
| Industry   | -    | -    | 1946 | 10222 | 20239 | 20670 | 55046  | 58790  | 66398  | 65023  |
| <i>among which:</i>                                  |      |      |      |       |       |       |        |        |        |        |
| Iron & steel industry                                | -    | -    | 220  | 732   | 908   | 1775  | 7094   | 7573   | 8553   | 8376   |
| Chemical industry                                    | -    | -    | -    | 708   | 1365  | -     | 1606   | 1716   | 1938   | 1898   |
| Non-metallic mineral products                        | -    | -    | 1551 | 7942  | 14844 | 1905  | 5705   | 6090   | 6878   | 6736   |
| Food, drink, tobacco                                 | -    | -    | -    | 362   | 880   | 88    | 1692   | 1825   | 2061   | 2019   |
| Engineering & metal industry                         | -    | -    | 175  | 419   | 768   | -     | -      | -      | -      | -      |
| Transport  | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| Services & households etc.                           | -    | -    | 98   | 675   | 2524  | 1980  | 1953   | 2953   | 2793   | 3032   |
| <i>among which:</i>                                  |      |      |      |       |       |       |        |        |        |        |
| Households   | -    | -    | -    | 358   | 1681  | 1147  | 1316   | 867    | 900    | 1024   |
| <b>2. IMPORTS</b>                                    |      |      |      |       |       |       |        |        |        |        |
| Intra-EU total                                       | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| Extra-EU total                                       | -    | -    | 4616 | 32434 | 90866 | 37175 | 105162 | 135221 | 155171 | 155283 |
| <i>among which :</i>                                 |      |      |      |       |       |       |        |        |        |        |
| CIS  | -    | -    | -    | -     | -     | 45917 | 105162 | 135221 | 155171 | 155283 |
|  |      |      |      | 32434 | 90866 | -     | -      | -      | -      | -      |
| Norway   | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| <b>3. NETWORK OF TRANSPORTATION AND DISTRIBUTION</b> |      |      |      |       |       |       |        |        |        |        |
| Length of network (km)                               | -    | -    | -    | 2189  | -*    | -     | 1604   | 2000   | 2000   | -      |
| Storage capacity (Mio. m <sup>3</sup> )              | -    | -    | -    | -     | -     | -     | -      | -      | -      | -      |
| <b>Derived gases</b>                                 |      |      |      |       |       |       |        |        |        |        |
| <b>BALANCE</b>                                       |      |      |      |       |       |       |        |        |        |        |
| Production   | 6810 | 6286 | 8068 | 8165  | 8059  | 9500  | 16576  | 23591  | 24404  | 24590  |
| <i>of which:</i>                                     |      |      |      |       |       |       |        |        |        |        |
| Coke-oven gas  | 2252 | 1792 | 3047 | 3059  | 2803  | -     | 4507   | 7621   | 7771   | 7721   |
| Blast-furnace gas                                    | 2005 | 1624 | 1858 | 1687  | 1788  | 9261  | 11881  | 15970  | 16633  | 16869  |
| Gasworks gas   | 2553 | 2870 | 3163 | 3419  | 3468  | 239   | 188    | -      | -      | -      |
| Inland market consumption                            | 4969 | 5536 | 6354 | 6392  | 6337  | 9449  | 16545  | 23591  | 21957  | 24590  |
| <i>among which:</i>                                  |      |      |      |       |       |       |        |        |        |        |
| Power stations                                       | 665  | 833  | 2288 | 1569  | 1755  | 4103  | 4392   | 4322   | 6496   | 6473   |
| Industry   | 2128 | 2273 | 1296 | 1807  | 1498  | 5262  | 12091  | 19269  | 15461  | 18117  |
| <i>among which:</i>                                  |      |      |      |       |       |       |        |        |        |        |
| Iron & steel industry                                | 2002 | 2273 | 1223 | 1738  | 1437  | 5158  | 11996  | 19269  | 15461  | 18117  |
| Services & households etc.                           | 2176 | 2430 | 2770 | 3016  | 3084  | 84    | 62     | -      | -      | -      |

Sverige

United Kingdom

| 1985               | 1990  | 1997  | 1998  | 1999  | 1985   | 1990    | 1997    | 1998    | 1999    | en 1000 TJ(PCS)                            |
|--------------------|-------|-------|-------|-------|--|---------|---------|---------|---------|--|
| <b>Gaz naturel</b> |       |       |       |       |  |         |         |         |         |  |
|                    |       |       |       |       | <b>1. BILAN</b>                                  |         |         |         |         |  |
| -                  | -     | -     | -     | -     | 1661719  | 1903539 | 3594050 | 3774202 | 4140496 | Production primaire                        |
| 3483               | 24584 | 33439 | 33127 | 33205 | 529640   | 287407  | 50623   | 38095   | 46303   | Importations totales                       |
| -                  | -     | -     | -     | -     | -  | -       | 77998   | 113775  | 303960  | Exportations totales                       |
| -                  | -     | -     | -     | -     | -21838   | 4853    | -22820  | -7542   | -25002  | Variations de stocks                       |
| 3483               | 24584 | 33439 | 33127 | 33205 | 2169521  | 2195799 | 3543855 | 3690980 | 3857837 | Consommation intérieure brute              |
| 3482               | 24695 | 32464 | 31683 | 34768 | 1955574  | 2005331 | 3194541 | 3333033 | 3558909 | Consommation du marché intérieur           |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| 199                | 5764  | 11741 | 11892 | 10762 | 34802  | 47132   | 875540  | 959760  | 1127949 | Centrales électriques                      |
| -                  | -     | -     | -     | -     | 180000   | 120000  | 42836   | 48006   | 48006   | Usages non énergétiques                    |
| 2725               | 11562 | 13026 | 11043 | 13324 | 438300   | 448474  | 611155  | 618777  | 665869  | Industrie                                  |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| -                  | 817   | 894   | 778   | 894   | 48453  | 48655   | 74077   | 75672   | 78970   | Sidérurgie                                 |
| 1161               | 2708  | 2605  | 2294  | 2216  | 65000  | 50020   | 161330  | 162248  | 184266  | Chimie                                     |
| 45                 | 989   | 1011  | 894   | 894   | 61357  | 68157   | 53262   | 51005   | 51736   | Prod. minéraux non métalliques             |
| 1474               | 4255  | 4044  | 3655  | 4821  | 63875  | 68969   | 97754   | 99022   | 104404  | Alimentation, boissons, tabac              |
| 45                 | 1075  | 1206  | 894   | 785   | 101351   | 98373   | 68551   | 70589   | 74661   | Fabrications métalliques                   |
| -                  | -     | -     | -     | -     | -  | -       | -       | -       | -       | Transport                                  |
| 272                | 3970  | 5598  | 6143  | 6104  | 1302472  | 1389725 | 1665010 | 1706490 | 1717085 | Services & ménages etc.                    |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| 155                | 1635  | 2138  | 3421  | 4160  | 1020454  | 1202030 | 1243918 | 1281222 | 1281841 | Ménages                                    |
|                    |       |       |       |       | <b>2. IMPORTATIONS</b>                           |         |         |         |         |  |
| 3483               | 24213 | 33439 | 33127 | 33205 | -  | -       | -       | 4347    | 21037   | Intra-UE total                             |
| -                  | 371   | -     | -     | -     | 529640   | 287407  | 50623   | 33748   | 25266   | Extra-UE total                             |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| -                  | -     | -     | -     | -     | -  | -       | -       | -       | -       | CEI  |
| -                  | -     | -     | -     | -     | -  | 1939    | -       | -       | -       | Algérie                                    |
| -                  | -     | -     | -     | -     | 525879   | 282659  | 50623   | 33748   | 25266   | Norvège                                    |
|                    |       |       |       |       | <b>3. RESEAU DE TRANSPORT ET DE DISTRIBUTION</b> |         |         |         |         |  |
| -                  | -     | 3500  | 3500  | -     | -  | 248815  | 421000  | 421000  | -       | Longueur du réseau (km)                    |
| -                  | -     | -     | -     | -     | -  | 12867   | 10500   | 10500   | -       | Capacité de stockage (Mio m <sup>3</sup> ) |
| <b>Gaz dérivés</b> |       |       |       |       |  |         |         |         |         |  |
|                    |       |       |       |       | <b>BILAN</b>                                     |         |         |         |         |  |
| 24163              | 24003 | 26653 | 27293 | 27999 | 127768   | 130610  | 122558  | 119671  | 113981  | Production                                 |
| <i>soit :</i>      |       |       |       |       |  |         |         |         |         |  |
| 10132              | 9229  | 9479  | 9024  | 9194  | 67735  | 61085   | 47815   | 47254   | 45428   | Gaz de cokeries                            |
| 11470              | 13005 | 15203 | 16192 | 16862 | 54547  | 69525   | 74743   | 72417   | 68553   | Gaz de hauts-fourneaux                     |
| 2561               | 1769  | 1971  | 2077  | 1943  | 5486   | -       | -       | -       | -       | Gaz d'usines                               |
| 17250              | 17143 | 19753 | 19864 | 20421 | 85026  | 95791   | 95601   | 90381   | 85960   | Consommation du marché intérieur           |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| 5174               | 5410  | 8221  | 8348  | 10075 | 19440  | 23716   | 14950   | 35535   | 35777   | Centrales électriques                      |
| 10146              | 9981  | 9711  | 9728  | 8687  | 64003  | 72075   | 80651   | 54846   | 50183   | Industrie                                  |
| <i>dont :</i>      |       |       |       |       |  |         |         |         |         |  |
| 9666               | 9613  | 9276  | 9437  | 8397  | 61576  | 63638   | 79859   | 54428   | 49737   | Sidérurgie                                 |
| 1843               | 1179  | 1500  | 1641  | 1530  | 1583   | -       | -       | -       | -       | Services & ménages etc.                    |





Elektrische Energie  
Electricity  
Electricité

# Electricity

## Principal aggregates

EU-15

Belgique/België

| <i>in GWh</i>                       | 1985    | 1990    | 1997    | 1998    | 1999    | 1985  | 1990  | 1997  | 1998  | 1999  |
|-------------------------------------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|
| <b>Electricity</b>                  |         |         |         |         |         |       |       |       |       |       |
| <b>1. GENERATION</b>                |         |         |         |         |         |       |       |       |       |       |
| Total gross generation              | 1817728 | 2058646 | 2426436 | 2493349 | 2532960 | 57320 | 70845 | 78892 | 83241 | 84521 |
| <i>among which:</i>                 |         |         |         |         |         |       |       |       |       |       |
| Hydro                               | 300350  | 276578  | 316273  | 327130  | 330269  | 1350  | 900   | 1277  | 1497  | 1489  |
|                                     |         |         |         | 12095   | 14247   | -     | 7     | 8     | 11    | 13    |
| Geothermal                          | 2684    | 3224    | 3956    | 4272    | 4483    | -     | -     | -     | -     | -     |
| Nuclear                             | 573778  | 720200  | 859893  | 854182  | 868392  | 34600 | 42720 | 47408 | 46165 | 49017 |
| Conventional thermal                | 940846  | 1057866 | 1238972 | 1295670 | 1315569 | 21370 | 27218 | 30199 | 35568 | 34002 |
| <i>of which :</i>                   |         |         |         |         |         |       |       |       |       |       |
| Hard coal                           | 495019  | 552114  | 472292  | 485432  | 455067  | 12321 | 17095 | 13748 | 14187 | 9939  |
| Lignite                             | 118452  | 123489  | 182618  | 182798  | 180104  | -     | -     | -     | -     | -     |
| Petroleum products                  | 181213  | 193853  | 187059  | 191424  | 181723  | 3742  | 1314  | 1422  | 2580  | 1035  |
| Natural gas                         | 112138  | 141975  | 334158  | 367152  | 426286  | 2278  | 5405  | 11537 | 15036 | 19231 |
| Derived gases                       | 22914   | 24809   | 28043   | 29557   | 29170   | 2714  | 2760  | 2534  | 2703  | 2589  |
| Biomass                             | 10701   | 15429   | 27328   | 31036   | 35058   | 314   | 492   | 549   | 529   | 851   |
| Other fuels                         | 409     | 6197    | 7474    | 8271    | 8161    | 1     | 152   | 409   | 533   | 357   |
| <b>2. BALANCE</b>                   |         |         |         |         |         |       |       |       |       |       |
| Total gross generation              | 1817728 | 2058646 | 2426436 | 2493349 | 2532960 | 57320 | 70845 | 78892 | 83241 | 84521 |
| Total net generation                | 1708165 | 1943276 | 2301802 | 2368539 | 2407229 | 54184 | 67160 | 75079 | 79492 | 80851 |
| Total imports                       | 97319   | 154272  | 172004  | 168426  | 194662  | 5497  | 4785  | 9975  | 7828  | 9059  |
| Total exports                       | 81891   | 127138  | 164222  | 155314  | 171086  | 5543  | 8509  | 6705  | 6435  | 8207  |
| Consumption for pumped-storage      | 21631   | 22593   | 26597   | 29497   | 33175   | 1395  | 830   | 1281  | 1463  | 1520  |
| Network losses                      | 130672  | 134710  | 142079  | 156007  | 159379  | 3029  | 3500  | 3747  | 3895  | 4133  |
| Energy branch consumption           | 80956   | 81903   | 84035   | 86683   | 84351   | 1294  | 1124  | 1504  | 1570  | 1545  |
| Final energy consumption            | 1585321 | 1813951 | 2059046 | 2110065 | 2152775 | 48421 | 57984 | 71817 | 73957 | 74505 |
| <i>of which :</i>                   |         |         |         |         |         |       |       |       |       |       |
| Industry                            | 719530  | 805813  | 863687  | 883529  | 895538  | 25696 | 30523 | 36421 | 37395 | 37633 |
| <i>among which:</i>                 |         |         |         |         |         |       |       |       |       |       |
| Non-ferrous metals                  | 65214   | 67671   | 60188   | 63176   | 64439   | 1773  | 2106  | 1887  | 1869  | 1907  |
| Chemical industry                   | 169624  | 186769  | 169752  | 172569  | 170556* | 8637  | 9875  | 12323 | 12757 | 12790 |
| Non-metallic mineral products       | 50162   | 58178   | 63628   | 64268   | 66779*  | 1476  | 2085  | 2477  | 2443  | 2470  |
| Food, drink, tobacco                | 52724   | 67370   | 80555   | 81911   | 84151*  | 2174  | 2793  | 3652  | 3641  | 3767  |
| Engineering & metal industry        | 109088  | 132981  | 120463  | 126006  | 128889* | 2728  | 2968  | 2904  | 3024  | 3018  |
| Transport                           | 39402   | 46570   | 56824   | 56655   | 56414   | 1188  | 1249  | 1252  | 1366  | 1401  |
| Services & households etc.          | 826389  | 961568  | 1138535 | 1169881 | 1200823 | 21537 | 26212 | 34144 | 35196 | 35471 |
| <i>among which:</i>                 |         |         |         |         |         |       |       |       |       |       |
| Households                          | 471009  | 518903  | 606453  | 620252  | 633336* | 13466 | 18414 | 22933 | 23388 | 23482 |
| <b>3. EXTERNAL TRADE</b>            |         |         |         |         |         |       |       |       |       |       |
| Extra-EU imports                    | 62133   | 77380   | 47972   | 52585   | 61931   | 0     | 0     | 0     | 0     | 0     |
| Intra-EU imports                    | 35186   | 76892   | 124032  | 115841  | 132731  | 5497  | 4785  | 9975  | 7828  | 9059  |
| <i>among which:</i>                 |         |         |         |         |         |       |       |       |       |       |
| France                              | 17684   | 44398   | 62750   | 55437   | 64235   | 4481  | 2311  | 6440  | 4611  | 5973  |
| <b>4. CONSUMPTION PER CAPITA</b>    |         |         |         |         |         |       |       |       |       |       |
| <i>(in kWh/cap.)</i>                |         |         |         |         |         |       |       |       |       |       |
| Inland market                       | 4644    | 5201    | 5727    | 5860    | 5984*   | 5043  | 5930  | 7201  | 7402  | 7453* |
| Households                          | 1312    | 1423    | 1620    | 1654    | 1694*   | 1365  | 1847  | 2252  | 2292  | 2301* |
| <b>5. FUEL CONSUMPTION (*)</b>      |         |         |         |         |         |       |       |       |       |       |
| <i>(in 1000 toe)</i>                |         |         |         |         |         |       |       |       |       |       |
| Conventional thermal power stations | 248319  | 269876  | 273588  | 283822* | 284806* | 5107  | 6579  | 6899  | 7656  | 7024  |
| <i>among which:</i>                 |         |         |         |         |         |       |       |       |       |       |
| Solid fuels                         | 170373  | 182318  | 149972  | 154335  | 145066  | 2825  | 3875  | 3120  | 3040  | 2246  |
| Petroleum products                  | 39864   | 42551   | 38489   | 38732*  | 37813   | 812   | 318   | 255   | 388   | 162   |
| Natural gas                         | 23748   | 30091   | 64934   | 69397   | 79699   | 574   | 1318  | 2327  | 3024  | 3527  |
| for electricity generation          | 240530  | 261365  | :       | :       | :       | 4862  | 6342  | 6573  | 7334  | 6557  |
| for heat production                 | 7788    | 8511    | :       | :       | :       | 245   | 236   | 326   | 322   | 466   |

(\*) For Italy, includes the use of geothermal heat

# Elektrische Energie Hauptaggregate

Danmark

Deutschland

| 1985                              | 1990  | 1997  | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   | in GWh                                 |
|-----------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--|
| <b>Elektrizität</b>               |       |       |       |       |        |        |        |        |        |  |
| <b>1. ERZEUGUNG</b>               |       |       |       |       |        |        |        |        |        |  |
| 29070                             | 25821 | 44309 | 41100 | 38868 | 424187 | 453591 | 551570 | 556714 | 556804 | Bruttoelektrizitätserzeugung insgesamt |
| darunter:                         |       |       |       |       |        |        |        |        |        |  |
| 30                                | 30    | 19    | 27    | 32    | 19350  | 19720  | 20934  | 21590  | 24952  | Wasserkraft                            |
| 60                                | 610   | 1934  | 2820  | 3029  | -      | 71     | 3034   | 4593   | 5528   | Windenergie                            |
| -                                 | -     | -     | -     | -     | -      | -      | -      | -      | -      | Erdwärme                               |
| -                                 | -     | -     | -     | -     | 138640 | 152470 | 170328 | 161644 | 170004 | Kernenergie                            |
| 28980                             | 25181 | 42356 | 38253 | 35807 | 266197 | 281330 | 357274 | 368887 | 356320 | Herkömmliche Wärme kraft               |
| davon:                            |       |       |       |       |        |        |        |        |        |  |
| 27210                             | 23320 | 28713 | 23652 | 20043 | 133243 | 139259 | 143103 | 153439 | 143083 | Steinkohle                             |
| -                                 | -     | -     | -     | -     | 84995  | 81236  | 141719 | 139402 | 135984 | Braunkohle                             |
| 1440                              | 1060  | 5423  | 4965  | 4878  | 10183  | 10851  | 6866   | 6376   | 5845   | Mineralölzeugnisse                     |
| 320                               | 660   | 6855  | 8167  | 9136  | 24977  | 36111  | 50176  | 54312  | 55063  | Naturgas                               |
| -                                 | -     | -     | -     | -     | 8410   | 9290   | 8071   | 6687   | 6907   | Abgeleitetes Gas                       |
| 10                                | 141   | 1326  | 1455  | 1750  | 4389   | 3264   | 3391   | 4785   | 4633   | Biomasse                               |
| -                                 | -     | 39    | 14    | -     | -      | 1319   | 3948   | 3886   | 4805   | Sonstige Brennstoffe                   |
| <b>2. BILANZ</b>                  |       |       |       |       |        |        |        |        |        |  |
| 29070                             | 25821 | 44309 | 41100 | 38868 | 424187 | 453591 | 551570 | 556714 | 556804 | Gesamtbruttoerzeugung                  |
| 27210                             | 24093 | 41883 | 39215 | 36990 | 384376 | 419089 | 512768 | 517942 | 518662 | Gesamt Nettoerzeugung                  |
| 3155                              | 11973 | 3796  | 3280  | 5223  | 22762  | 31904  | 38012  | 38315  | 40598  | Einfuhren insgesamt                    |
| 2695                              | 4925  | 11048 | 7600  | 7536  | 20100  | 31115  | 40361  | 38953  | 39558  | Ausfuhren insgesamt                    |
| -                                 | -     | -     | -     | -     | 3405   | 3778   | 5624   | 5375   | 5305   | Pumpspeicher                           |
| 2104                              | 1596  | 2153  | 2224  | 2029  | 24242  | 23255  | 21884  | 24138  | 24372  | Netzverluste                           |
| 208                               | 248   | 598   | 571   | 578   | 27925  | 25922  | 21150  | 21350  | 21250  | Verbrauch des prod. -Bereichs Energie  |
| 25358                             | 29268 | 31880 | 32101 | 32071 | 424626 | 446489 | 461761 | 466476 | 467483 | Energetischer Endverbrauch             |
| davon:                            |       |       |       |       |        |        |        |        |        |  |
| 7523                              | 8730  | 9964  | 9963  | 9897  | 202182 | 207821 | 206297 | 208293 | 206085 | Industrie                              |
| darunter:                         |       |       |       |       |        |        |        |        |        |  |
| 679                               | 713   | 612   | 612   | 608   | 27963  | 26396  | 24099  | 23201  | 22096  | Eisen- und Stahlindustrie              |
| -                                 | -     | 82    | 86    | 85    | 19309  | 18486  | 17211  | 17943  | 18166  | NE- Metalle                            |
| 1378                              | 1726  | 1241  | 1157  | 1149  | 67761  | 64263  | 53439  | 53091  | 51151  | Chemie                                 |
| 649                               | 712   | 828   | 846   | 840   | 12668  | 13806  | 14882  | 14875  | 14835  | Steine, Erden, Glas, Keramik           |
| 1613                              | 2257  | 2259  | 2315  | 2300  | 10288  | 11518  | 13561  | 13875  | 14120  | Nahrungs- und Genussmittel             |
| 1182                              | 1448  | 1989  | 2027  | 2014  | 36709  | 43023  | 25334  | 27649  | 27925  | Eisen- und Metallverarbeitung          |
| 145                               | 211   | 272   | 325   | 337   | 13150  | 13668  | 16859  | 16082  | 15835  | Verkehr                                |
| 17690                             | 20327 | 21644 | 21813 | 21837 | 209294 | 225000 | 238605 | 242101 | 245563 | Dienstleistungen & Haushalte usw.      |
| darunter:                         |       |       |       |       |        |        |        |        |        |  |
| 8436                              | 9102  | 10309 | 10176 | 10195 | 112431 | 117112 | 130812 | 130832 | 131281 | Haushalte                              |
| <b>3. AUSSENHANDEL</b>            |       |       |       |       |        |        |        |        |        |  |
| 2865                              | 11880 | 1680  | 1589  | 2827  | 19518  | 16567  | 9814   | 11179  | 12550  | Extra-EU Einfuhren                     |
| 290                               | 93    | 2116  | 1691  | 2396  | 3244   | 15337  | 28198  | 27136  | 28048  | Intra-EU Einfuhren                     |
| -                                 | -     | -     | -     | -     | 1056   | 8626   | 16921  | 13090  | 14236  | darunter:<br>Frankreich                |
| <b>4. VERBRAUCH PRO EINWOHNER</b> |       |       |       |       |        |        |        |        |        |  |
| (in kWh/Einw.)                    |       |       |       |       |        |        |        |        |        |  |
| 4999                              | 5742  | 6146  | 6163  | 6159* | 5826   | 5952   | 5885   | 5946   | 5958*  | Binnenmarkt                            |
| 1649                              | 1770  | 1950  | 1919  | 1923* | 1447   | 1475   | 1594   | 1594   | 1600*  | Haushalte                              |
| <b>5. BRENNSTOFFVERBRAUCH</b>     |       |       |       |       |        |        |        |        |        |  |
| (in 1000 t RÖE)                   |       |       |       |       |        |        |        |        |        |  |
| 7274                              | 6351  | 9949  | 9218  | 8552  | 89141  | 90228  | 81098  | 81443* | 78519* | Herkömmliche Wärme kraftwerke insg.    |
| davon:                            |       |       |       |       |        |        |        |        |        |  |
| 6493                              | 5547  | 6291  | 5283  | 4422  | 77497  | 75541  | 64103  | 65145  | 62317  | Feste Brennstoffe                      |
| 346                               | 252   | 1633  | 1498  | 1438  | 2625   | 2863   | 1318   | 1263   | 1182   | Mineralölzeugnisse                     |
| 75                                | 136   | 1485  | 1877  | 2032  | 5281   | 8027   | 11757  | 10959  | 11052  | Naturgas                               |
| davon:                            |       |       |       |       |        |        |        |        |        |  |
| 6065                              | 4940  | 7344  | 6502  | 5936  | 86086  | 87144  | 73208  | 73553* | 70629* | für elektrische Energie                |
| 1208                              | 1410  | 2605  | 2715  | 2616  | 3054   | 3084   | 7889   | 7889   | 7889   | für Wärmeerzeugung                     |

# Electricity

## Principal aggregates

Ellada

España

| <i>in GWh</i>                       | 1985  | 1990  | 1997  | 1998  | 1999  | 1985   | 1990   | 1997   | 1998   | 1999   |
|-------------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>Electricity</b>                  |       |       |       |       |       |        |        |        |        |        |
| <b>1. GENERATION</b>                |       |       |       |       |       |        |        |        |        |        |
| Total gross generation              | 27746 | 35002 | 43507 | 46332 | 49860 | 127353 | 151750 | 190237 | 195861 | 209030 |
| <i>among which:</i>                 |       |       |       |       |       |        |        |        |        |        |
| Hydro                               | 2810  | 2000  | 4096  | 3866  | 5058  | 33030  | 26180  | 36002  | 35806  | 25437  |
|                                     |       |       |       | 73    | 162   | -      | 14     | 716    | 2148   | 2744   |
| Geothermal                          | -     | -     | -     | -     | -     | -      | -      | -      | -      | -      |
| Nuclear                             | -     | -     | -     | -     | -     | 28040  | 54270  | 55298  | 58993  | 58852  |
| Conventional thermal                | 24936 | 33000 | 39374 | 42393 | 44640 | 66283  | 71286  | 98221  | 98914  | 121997 |
| <i>of which :</i>                   |       |       |       |       |       |        |        |        |        |        |
| Hard coal                           | 790   | -     | 282   | 45    | 12    | 42036  | 48486  | 57307  | 55207  | 66788  |
| Lignite                             | 16767 | 25170 | 30347 | 32397 | 32369 | 12759  | 11248  | 5527   | 6378   | 6821   |
| Petroleum products                  | 7379  | 7740  | 8299  | 8078  | 8157  | 8172   | 8604   | 14103  | 17499  | 24445  |
| Natural gas                         | -     | 90    | 332   | 1713  | 3907  | 2063   | 1509   | 18174  | 16212  | 19058  |
| Derived gases                       | -     | -     | -     | -     | -     | 684    | 926    | 1142   | 1581   | 1761   |
| Biomass                             | -     | -     | -     | -     | -     | 569    | 222    | 1392   | 1641   | 1774   |
| Other fuels                         | -     | -     | 114   | 160   | 195   | -      | 291    | 576    | 396    | 1350   |
| <b>2. BALANCE</b>                   |       |       |       |       |       |        |        |        |        |        |
| Total gross generation              | 27746 | 35002 | 43507 | 46332 | 49860 | 127353 | 151750 | 190237 | 195861 | 209030 |
| Total net generation                | 25737 | 32145 | 40158 | 42757 | 46021 | 120965 | 144298 | 182225 | 187955 | 199217 |
| Total imports                       | 949   | 1330  | 3003  | 2500  | 1811  | 3927   | 3208   | 4597   | 8964   | 11959  |
| Total exports                       | 211   | 619   | 709   | 890   | 1647  | 5001   | 3628   | 7670   | 5562   | 6240   |
| Consumption for pumped-storage      | -     | 325   | 305   | 212   | 338   | 2473   | 1031   | 1758   | 2573   | 3677   |
| Network losses                      | 1991  | 2866  | 3271  | 3173  | 3334  | 11838  | 13677  | 13993  | 18330  | 19624  |
| Energy branch consumption           | 652   | 1195  | 1662  | 1667  | 1657  | 2751   | 3362   | 4412   | 4500   | 4400   |
| Final energy consumption            | 23833 | 28470 | 37074 | 39315 | 40879 | 102829 | 125799 | 159002 | 165969 | 177252 |
| <i>of which :</i>                   |       |       |       |       |       |        |        |        |        |        |
| Industry                            | 11013 | 12109 | 12307 | 12908 | 12900 | 56649  | 63279  | 68820  | 71423  | 76452  |
| <i>among which:</i>                 |       |       |       |       |       |        |        |        |        |        |
|                                     |       |       |       | 868   | 821   | 11231  | 9534   | 11729  | 12170  | 13265  |
| Non-ferrous metals                  | 2942  | 3315  | 3300  | 3446  | 3520  | 8134   | 8138   | 8522   | 8800   | 9001   |
| Chemical industry                   | 1314  | 1381  | 1162  | 1246  | 1221  | 9634   | 10320  | 9908   | 10200  | 10679  |
| Non-metallic mineral products       | 1665  | 1783  | 1947  | 2016  | 1979  | 4932   | 6930   | 7525   | 7703   | 8793   |
| Food, drink, tobacco                | 588   | 710   | 1017  | 1041  | 1107  | 4036   | 5773   | 6843   | 7100   | 7653   |
| Engineering & metal industry        | 514   | 572   | 663   | 713   | 754   | 5660   | 7393   | 7830   | 8300   | 8634   |
| Transport                           | 31    | 124   | 167   | 180   | 197   | 2811   | 3669   | 3604   | 3750   | 3566   |
| Services & households etc.          | 12789 | 16237 | 24600 | 26227 | 27782 | 43369  | 58851  | 86578  | 90796  | 97234  |
| <i>among which:</i>                 |       |       |       |       |       |        |        |        |        |        |
| Households                          | 7865  | 9074  | 12423 | 12786 | 13484 | 23253  | 30210  | 40105  | 41700  | 45443  |
| <b>3. EXTERNAL TRADE</b>            |       |       |       |       |       |        |        |        |        |        |
| Extra-EU imports                    | 949   | 1330  | 3003  | 2500  | 1811  | 1292   | 0      | 0      | 0      | 0      |
| Intra-EU imports                    | -     | -     | -     | -     | -     | 2635   | 3208   | 4597   | 8964   | 11959  |
| <i>among which:</i>                 |       |       |       |       |       |        |        |        |        |        |
| France                              | -     | -     | -     | -     | -     | 2635   | 1512   | 2114   | 5266   | 7466   |
| <b>4. CONSUMPTION PER CAPITA</b>    |       |       |       |       |       |        |        |        |        |        |
| <i>(in kWh/cap.)</i>                |       |       |       |       |       |        |        |        |        |        |
| Inland market                       | 2464  | 2919  | 3689  | 3897  | 4044* | 2748   | 3324   | 4155   | 4329   | 4613*  |
| Households                          | 791   | 893   | 1183  | 1215  | 1282* | 605    | 777    | 1019   | 1059   | 1154*  |
| <b>5. FUEL CONSUMPTION (*)</b>      |       |       |       |       |       |        |        |        |        |        |
| <i>(in 1000 toe)</i>                |       |       |       |       |       |        |        |        |        |        |
| Conventional thermal power stations | 6442  | 8719  | 10053 | 10290 | 9979  | 15626  | 16630  | 21584  | 20968  | 26297  |
| <i>among which:</i>                 |       |       |       |       |       |        |        |        |        |        |
| Solid fuels                         | 4807  | 6890  | 8019  | 8033  | 7234  | 12838  | 13880  | 15223  | 14654  | 17406  |
| Petroleum products                  | 1635  | 1798  | 1963  | 1904  | 1876  | 1970   | 2169   | 2717   | 3279   | 4981   |
| Natural gas                         | -     | 31    | 70    | 352   | 866   | 562    | 269    | 2784   | 2117   | 2963   |
| for electricity generation          | 6442  | 8719  | 10053 | 10290 | 9979  | 15626  | 16625  | 21508  | 20891  | 26215  |
| for heat production                 | -     | -     | -     | -     | -     | -      | 4      | 76     | 76     | 82     |

(\*) For Italy, includes the use of geothermal heat

# Electricité

## Principaux agrégats

France

Ireland

| 1985                                   | 1990   | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  | en GWh                             |
|--|--------|--------|--------|--------|-------|-------|-------|-------|-------|------------------------------------|
| <b>Electricité</b>                     |        |        |        |        |       |       |       |       |       |                                    |
| <b>1. PRODUCTION</b>                   |        |        |        |        |       |       |       |       |       |                                    |
| 343771                                 | 419961 | 504226 | 510806 | 524178 | 12090 | 14510 | 19961 | 21155 | 22051 | Production brute totale            |
| 64260                                  | 57920  | 68060  | 66620  | 77448  | 1180  | 980   | 942   | 1189  | 1090  | dont :                             |
| -                                      | -      | 24     | 48     | 36     | -     | -     | 50    | 169   | 187   | Hydraulique                        |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | Eolienne                           |
| 224100                                 | 314080 | 395483 | 387990 | 394244 | -     | -     | -     | -     | -     | Géothermique                       |
| 55411                                  | 47961  | 40659  | 56148  | 52450  | 10910 | 13530 | 18969 | 19797 | 20774 | Nucléaire                          |
| 39792                                  | 29048  | 20618  | 31770  | 27436  | 104   | 5920  | 6781  | 6734  | 5833  | Thermique classique                |
| 341                                    | 2420   | 1560   | 1762   | 1490   | 2339  | 2250  | 2059  | 1697  | 1682  | soit :                             |
| 7197                                   | 8874   | 7727   | 11651  | 10150  | 2394  | 1430  | 3466  | 4850  | 6170  | Houille                            |
| 3146                                   | 2818   | 4900   | 4975   | 7530   | 6073  | 3930  | 6574  | 6430  | 6956  | Lignite                            |
| 4093                                   | 3949   | 3685   | 3780   | 3074   | -     | -     | -     | -     | -     | Produits pétroliers                |
| 842                                    | 852    | 2169   | 2210   | 2770   | -     | -     | 27    | 85    | 133   | Gaz naturel                        |
| -                                      | -      | -      | -      | -      | -     | -     | 62    | 1     | -     | Gaz dérivés                        |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | Biomasse                           |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | Autres combustibles                |
| <b>2. BILAN</b>                        |        |        |        |        |       |       |       |       |       |                                    |
| 343771                                 | 419961 | 504226 | 510806 | 524178 | 12090 | 14510 | 19961 | 21155 | 22051 | Production brute totale            |
| 327560                                 | 399680 | 481379 | 487452 | 501045 | 11486 | 13647 | 18830 | 20003 | 20889 | Production nette totale            |
| 5520                                   | 6674   | 4238   | 4590   | 4965   | -     | -     | 64    | 152   | 290   | Importations totales               |
| 28878                                  | 52112  | 69634  | 62152  | 68108  | -     | -     | 76    | 73    | 49    | Exportations totales               |
| 2495                                   | 4942   | 5237   | 5556   | 6298   | 555   | 406   | 374   | 393   | 367   | Energie absorbée pour le pompage   |
| 24291                                  | 26614  | 28692  | 30530  | 29828  | 1064  | 1274  | 1661  | 1921  | 1869  | Pertes sur les réseaux             |
| 25506                                  | 21340  | 26385  | 26151  | 26360  | 105   | 100   | 93    | 100   | 114   | Consommation de la branche énergie |
| 252923                                 | 301912 | 355195 | 367204 | 374713 | 9762  | 11868 | 16690 | 17668 | 18802 | Consommation finale énergétique    |
| 100659                                 | 114666 | 127699 | 131987 | 132610 | 3593  | 4485  | 6613  | 7087  | 7271  | soit :                             |
| 13183                                  | 11643  | 15739  | 15803  | 15379  | 372   | 233   | 282   | 302   | 310   | Industrie                          |
| 9582                                   | 10539  | 8620   | 9004   | 9421   | -     | 430   | 308   | 330   | 339   | dont :                             |
| 20095                                  | 26791  | 25452  | 25835  | 25085  | 513   | 579   | 882   | 945   | 970   | Sidérurgie                         |
| 6356                                   | 6363   | 8780   | 8900   | 9667   | 382   | 372   | 543   | 582   | 597   | Métaux non-ferreux                 |
| 10343                                  | 13797  | 16865  | 16740  | 17186  | 982   | 1256  | 1601  | 1716  | 1761  | Chimie                             |
| 16114                                  | 21650  | 23594  | 24647  | 25149  | 381   | 537   | 869   | 931   | 955   | Prod. minéraux non-métalliques     |
| 7628                                   | 8880   | 10864  | 11107  | 11254  | 14    | 16    | 23    | 24    | 25    | Alimentation, boissons, tabac      |
| 144636                                 | 178366 | 216632 | 224110 | 230849 | 6155  | 7367  | 10054 | 10557 | 11506 | Fabrications métalliques           |
| 85778                                  | 96908  | 119084 | 123147 | 126933 | 3957  | 4572  | 5321  | 5520  | 6544  | Transport                          |
| 1948                                   | 495    | 641    | 1234   | 2410   | -     | -     | 0     | 0     | 0     | Services & ménages etc.            |
| 3572                                   | 6179   | 3597   | 3356   | 2555   | -     | -     | 64    | 152   | 290   | dont :                             |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | Ménages                            |
| <b>3. COMMERCE EXTERIEUR</b>           |        |        |        |        |       |       |       |       |       |                                    |
| 1948                                   | 495    | 641    | 1234   | 2410   | -     | -     | 0     | 0     | 0     | Importations extra-UE              |
| 3572                                   | 6179   | 3597   | 3356   | 2555   | -     | -     | 64    | 152   | 290   | Importations intra-UE              |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | dont :                             |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | France                             |
| <b>4. CONSOMMATION PAR HABITANT</b>    |        |        |        |        |       |       |       |       |       |                                    |
| (en kWh/hab.)                          |        |        |        |        |       |       |       |       |       |                                    |
| 5036                                   | 5697   | 6510   | 6683   | 6815*  | 2787  | 3413  | 4584  | 4795  | 5105* | Marché intérieur                   |
| 1551                                   | 1708   | 2031   | 2092   | 2156*  | 1117  | 1304  | 1453  | 1489  | 1766* | Ménages                            |
| <b>5. CONSOMMATION DE COMBUSTIBLES</b> |        |        |        |        |       |       |       |       |       |                                    |
| (en 1000 tep)                          |        |        |        |        |       |       |       |       |       |                                    |
| 12931                                  | 11639  | 9123   | 12956  | 11827  | 2646  | 2945  | 4276  | 4504  | 4769  | Centrales thermiques classiques    |
| 9316                                   | 7334   | 4957   | 7946   | 6707   | 834   | 1773  | 2073  | 2038  | 1871  | dont :                             |
| 1162                                   | 1920   | 1166   | 1844   | 1668   | 539   | 330   | 792   | 1088  | 1357  | Combustibles solides               |
| 508                                    | 437    | 703    | 724    | 1070   | 1272  | 841   | 1387  | 1347  | 1509  | Produits pétroliers                |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | Gaz naturel                        |
| 12931                                  | 11639  | 9123   | 12956  | 11827  | 2646  | 2945  | 4276  | 4504  | 4769  | soit :                             |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | pour production d'électricité      |
| -                                      | -      | -      | -      | -      | -     | -     | -     | -     | -     | pour production de chaleur         |

# Electricity

## Principal aggregates

Italia

Luxembourg

| in GWh                              | 1985   | 1990   | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998  | 1999   |
|-------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
| <b>Electricity</b>                  |        |        |        |        |        |       |       |       |       |        |
| <b>1. GENERATION</b>                |        |        |        |        |        |       |       |       |       |        |
| Total gross generation              | 184496 | 216878 | 250769 | 259054 | 264994 | 940   | 1381  | 1263  | 1309  | 1032   |
| <i>among which:</i>                 |        |        |        |        |        |       |       |       |       |        |
| Hydro                               | 44600  | 35080  | 46552  | 47365  | 51777  | 510   | 820   | 937   | 1049  | 758    |
|                                     |        |        |        | 232    | 403    | -     | -     | 3     | 11    | 18     |
| Geothermal                          | 2680   | 3220   | 3905   | 4214   | 4403   | -     | -     | -     | -     | -      |
| Nuclear                             | 5778   | -      | -      | -      | -      | -     | -     | -     | -     | -      |
| Conventional thermal                | 131438 | 178576 | 200194 | 207243 | 208411 | 430   | 561   | 323   | 249   | 256    |
| <i>of which :</i>                   |        |        |        |        |        |       |       |       |       |        |
| Hard coal                           | 25441  | 30874  | 20384  | 22987  | 23551  | -     | -     | -     | -     | -      |
| Lignite                             | 1251   | 1165   | 134    | 324    | 261    | -     | -     | -     | -     | -      |
| Petroleum products                  | 76273  | 102710 | 113312 | 107305 | 91379  | 24    | 29    | 13    | -     | -      |
| Natural gas                         | 24786  | 39078  | 61293  | 70883  | 86983  | 4     | 36    | 177   | 204   | 204    |
| Derived gases                       | 3179   | 3106   | 4251   | 4516   | 4413   | 367   | 451   | 87    | -     | -      |
| Biomass                             | 508    | 166    | 820    | 1228   | 1824   | 35    | 45    | 46    | 45    | 52     |
| Other fuels                         | -      | 1477   | -      | -      | -      | -     | -     | -     | -     | -      |
| <b>2. BALANCE</b>                   |        |        |        |        |        |       |       |       |       |        |
| Total gross generation              | 184496 | 216878 | 250769 | 259054 | 264994 | 940   | 1381  | 1263  | 1309  | 1032   |
| Total net generation                | 175095 | 205239 | 238639 | 246264 | 252109 | 896   | 1332  | 1232  | 1250  | 1006   |
| Total imports                       | 25105  | 35577  | 39827  | 41633  | 42538  | 3972  | 4665  | 6032  | 6338  | 6212   |
| Total exports                       | 1436   | 922    | 995    | 901    | 528    | 433   | 755   | 846   | 924   | 655    |
| Consumption for pumped-storage      | 4950   | 4782   | 6728   | 8358   | 8903   | 615   | 1055  | 1179  | 1220  | 916    |
| Network losses                      | 17464  | 16424  | 17718  | 18508  | 18560  | 29    | 51    | 167   | 108   | 126    |
| Energy branch consumption           | 3348   | 4616   | 5860   | 6063   | 6254   | -     | -     | -     | -     | -      |
| Final energy consumption            | 173686 | 214084 | 247814 | 254747 | 261030 | 3793  | 4127  | 5133  | 5297  | 5510   |
| <i>of which :</i>                   |        |        |        |        |        |       |       |       |       |        |
| Industry                            | 92881  | 110839 | 123545 | 127048 | 133847 | 2510  | 2617  | 3160  | 3292  | 3693   |
| <i>among which:</i>                 |        |        |        |        |        |       |       |       |       |        |
| Non-ferrous metals                  | 5741   | 6160   | 5394   | 5441   | 5234   | -     | -     | -     | -     | -      |
| Chemical industry                   | 17991  | 25975  | 20284  | 20394  | 20864  | 586   | 561   | 262   | 270   | 270*   |
| Non-metallic mineral products       | 9474   | 11348  | 12096  | 12591  | 13025  | 140   | 205   | 311   | 313   | 313*   |
| Food, drink, tobacco                | 5829   | 7498   | 10188  | 10710  | 11172  | 57    | 58    | 72    | 76    | 76*    |
| Engineering & metal industry        | 13760  | 17910  | 22162  | 23185  | 23713  | 236   | 364   | 548   | 578   | 578*   |
| Transport                           | 4864   | 6276   | 7719   | 7861   | 7886   | 45    | 53    | 81    | 87    | 94     |
| Services & households etc.          | 75941  | 96969  | 116550 | 119838 | 119297 | 1238  | 1457  | 1892  | 1918  | 1723   |
| <i>among which:</i>                 |        |        |        |        |        |       |       |       |       |        |
| Households                          | 44501  | 52730  | 58485  | 59275  | 60717  | 580   | 650   | 763   | 752   | 750*   |
| 18823                               |        |        |        | 18355  |        | 1285  | 1190  | 1681  | 1728  | 1845   |
| <b>3. EXTERNAL TRADE</b>            |        |        |        |        |        |       |       |       |       |        |
| Extra-EU imports                    | 17590  | 20134  | 20943  | 23417  | 25082  | 27    | 0     | 0     | 0     | 0      |
| Intra-EU imports                    | 7515   | 15443  | 18884  | 18216  | 17456  | 3945  | 4665  | 6032  | 6338  | 6212   |
| <i>among which:</i>                 |        |        |        |        |        |       |       |       |       |        |
| France                              | 7515   | 15443  | 17279  | 16585  | 15770  | -     | -     | 44    | 12    | -      |
| <b>4. CONSUMPTION PER CAPITA</b>    |        |        |        |        |        |       |       |       |       |        |
| <i>(in kWh/cap.)</i>                |        |        |        |        |        |       |       |       |       |        |
| Inland market                       | 3128   | 3855   | 4410   | 4530   | 4642*  | 10335 | 10803 | 12192 | 13309 | 13844* |
| Households                          | 786    | 929    | 1016   | 1029   | 1054*  | 1580  | 1701  | 1812  | 1889  | 1884*  |
| <b>5. FUEL CONSUMPTION (*)</b>      |        |        |        |        |        |       |       |       |       |        |
| <i>(in 1000 toe)</i>                |        |        |        |        |        |       |       |       |       |        |
| Conventional thermal power stations | 30046  | 39775  | 43466  | 44769  | 44990* | 149   | 195   | 97    | 64    | 62     |
| <i>among which:</i>                 |        |        |        |        |        |       |       |       |       |        |
| Solid fuels                         | 5920   | 7074   | 4513   | 5091   | 5176   | 13    | -     | -     | -     | -      |
| Petroleum products                  | 16201  | 21528  | 23260  | 21925  | 19039  | 4     | 6     | -     | -     | -      |
| Natural gas                         | 5180   | 8083   | 11582  | 13532  | 16576  | 1     | 11    | 41    | 40    | 42     |
| for electricity generation          | 30046  | 39775  | 43466  | 44769  | 44990* | 149   | 195   | 97    | 64    | 62     |
| for heat production                 | -      | -      | -      | -      | -      | -     | -     | -     | -     | -      |

(\*) For Italy, includes the use of geothermal heat

# Elektrische Energie Hauptaggregate

Niederland

Österreich

| 1985                              | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  | in GWh                                 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| <b>Electricité</b>                |       |       |       |       |       |       |       |       |       |  |
| <b>1. ERZEUGUNG</b>               |       |       |       |       |       |       |       |       |       |  |
| 62953                             | 71970 | 86659 | 90898 | 86396 | 45201 | 51400 | 56851 | 57437 | 60368 | Bruttoelektrizitätserzeugung insgesamt |
| <i>darunter:</i>                  |       |       |       |       |       |       |       |       |       |  |
| -                                 | 120   | 94    | 106   | 90    | 31600 | 32490 | 37274 | 38671 | 41703 | Wasserkraft                            |
| 3                                 | 56    | 475   | 640   | 645   | -     | -     | 20    | 45    | 42    | Windenergie                            |
| -                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | Erdwärme                               |
| 3900                              | 3500  | 2408  | 3814  | 3832  | -     | -     | -     | -     | -     | Kernenergie                            |
| 59050                             | 68294 | 83682 | 86338 | 81829 | 13601 | 18910 | 19557 | 18721 | 18623 | Herkömmliche Wärmekraft                |
| <i>davon:</i>                     |       |       |       |       |       |       |       |       |       |  |
| 14870                             | 25054 | 22983 | 24169 | 19000 | 4010  | 7300  | 4266  | 3313  | 2893  | Steinkohle                             |
| -                                 | -     | -     | -     | -     | -     | -     | 1272  | 838   | 1497  | Braunkohle                             |
| 3038                              | 3089  | 3619  | 3528  | 6565  | 2240  | 2170  | 2768  | 3109  | 2753  | Mineralölerzeugnisse                   |
| 38379                             | 36628 | 50543 | 51981 | 49552 | 5750  | 7340  | 8557  | 8843  | 8708  | Naturgas                               |
| 2312                              | 2508  | 2982  | 3105  | 3108  | -     | -     | 1025  | 918   | 1015  | Abgeleitetes Gas                       |
| 450                               | 1015  | 2889  | 3120  | 2821  | 1601  | 1066  | 1565  | 1700  | 1679  | Biomasse                               |
| 1                                 | -     | 666   | 435   | 783   | -     | 1034  | 104   | -     | 78    | Sonstige Brennstoffe                   |
| <b>2. BILANZ</b>                  |       |       |       |       |       |       |       |       |       |  |
| 62953                             | 71970 | 86659 | 90898 | 86396 | 45201 | 51400 | 56851 | 57437 | 60368 | Gesamtbruttoerzeugung                  |
| 60542                             | 69464 | 83103 | 87394 | 82895 | 43110 | 48820 | 55241 | 55896 | 58834 | Gesamtnettoerzeugung                   |
| 6042                              | 9679  | 13107 | 12234 | 22408 | 6051  | 6838  | 9007  | 10304 | 11608 | Einfuhren insgesamt                    |
| 916                               | 471   | 475   | 420   | 3968  | 7770  | 7298  | 9775  | 10467 | 13507 | Ausfuhren insgesamt                    |
| -                                 | -     | -     | -     | -     | 1262  | 1852  | 1472  | 1575  | 1486  | Pumpspeicher                           |
| 2613                              | 3064  | 3735  | 3871  | 3960  | 2754  | 2965  | 3185  | 3339  | 4548  | Netzverluste                           |
| 1605                              | 1999  | 2485  | 2810  | 2837  | 653   | 805   | 972   | 2052  | 1111  | Verbrauch des prod. -Bereichs Energie  |
| 61451                             | 73523 | 89515 | 92744 | 94722 | 37018 | 43160 | 48844 | 48767 | 49792 | Energetischer Endverbrauch             |
| <i>davon:</i>                     |       |       |       |       |       |       |       |       |       |  |
| 28256                             | 33237 | 38684 | 39378 | 39993 | 15290 | 18172 | 18528 | 19492 | 16765 | Industrie                              |
| <i>darunter:</i>                  |       |       |       |       |       |       |       |       |       |  |
| 1870                              | 2268  | 2329  | 2296  | 2263  | 1948  | 1962  | 2641  | 2125  | 2168  | Eisen- und Stahlindustrie              |
| 4853                              | 5287  | 4919  | 5468  | 5693  | 2130  | 2149  | -     | 349   | 368   | NE- Metalle                            |
| 10234                             | 11633 | 12175 | 12262 | 11857 | 2692  | 3149  | 2482  | 2539  | 2145  | Chemie                                 |
| 1210                              | 1499  | 1568  | 1507  | 1552  | 1276  | 1492  | 1575  | 1450  | 1301  | Steine, Erden, Glas, Keramik           |
| 3518                              | 4643  | 6294  | 6448  | 6343  | 894   | 1130  | 1390  | 1097  | 1134  | Nahrungs- und Genussmittel             |
| 2631                              | 3592  | 4242  | 4269  | 4916  | 1918  | 2500  | 2681  | 2534  | 2572  | Eisen- und Metallverarbeitung          |
| 1106                              | 1273  | 1571  | 1630  | 1639  | 2213  | 2659  | 2864  | 2187  | 2040  | Verkehr                                |
| 32089                             | 39013 | 49260 | 51736 | 53090 | 19515 | 22329 | 27452 | 27088 | 30987 | Dienstleistungen & Haushalte usw.      |
| <i>darunter:</i>                  |       |       |       |       |       |       |       |       |       |  |
| 16000                             | 16504 | 20400 | 20800 | 21350 | 10249 | 11220 | 12944 | 13005 | 12900 | Haushalte                              |
| <b>3. AUSSENHANDEL</b>            |       |       |       |       |       |       |       |       |       |  |
| 1294                              | 0     | 23    | 65    | 0     | 3161  | 3278  | 3832  | 4304  | 6035  | Extra-EU Einfuhren                     |
| 4748                              | 9679  | 13084 | 12169 | 22408 | 2890  | 3560  | 5175  | 6000  | 5573  | Intra-EU Einfuhren                     |
| <i>darunter:</i>                  |       |       |       |       |       |       |       |       |       |  |
| 1997                              | 4516  | 3389  | 3243  | 6283  | -     | -     | -     | -     | -     | Frankreich                             |
| <b>4. VERBRAUCH PRO EINWOHNER</b> |       |       |       |       |       |       |       |       |       |  |
| <i>(in kWh/Einw.)</i>             |       |       |       |       |       |       |       |       |       |  |
| 4351                              | 5050  | 5893  | 6083  | 6211* | 4971  | 5688  | 6171  | 6291  | 6301* | Binnenmarkt                            |
| 1104                              | 1103  | 1306  | 1324  | 1359* | 1352  | 1451  | 1603  | 1609  | 1596* | Haushalte                              |
| <b>5. BRENNSTOFFVERBRAUCH</b>     |       |       |       |       |       |       |       |       |       |  |
| <i>(in 1000 t ROE)</i>            |       |       |       |       |       |       |       |       |       |  |
| 12854                             | 14533 | 18050 | 18614 | 18728 | 2568  | 4119  | 4597  | 4413* | 4307  | Herkömmliche Wärmekraftwerke insg.     |
| <i>davon:</i>                     |       |       |       |       |       |       |       |       |       |  |
| 3172                              | 5698  | 5158  | 5424  | 4590  | 661   | 1464  | 1150  | 861   | 925   | Feste Brennstoffe                      |
| 689                               | 701   | 734   | 708   | 1470  | 331   | 446   | 552   | 782*  | 692   | Mineralölerzeugnisse                   |
| 8045                              | 7108  | 10218 | 10444 | 10565 | 1181  | 1777  | 2062  | 2056  | 1996  | Naturgas                               |
| <i>davon:</i>                     |       |       |       |       |       |       |       |       |       |  |
| 12573                             | 14233 | 15752 | 16022 | 15931 | 2308  | 3751  | 3791  | 3560* | 3516  | für elektrische Energie                |
| 281                               | 299   | 2297  | 2592  | 2797  | 260   | 367   | 805   | 853   | 790   | für Wärmeerzeugung                     |

# Electricity

## Principal aggregates

Portugal

Suomi/Finland

| <i>in GWh</i>                       | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999   |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <b>Electricity</b>                  |       |       |       |       |       |       |       |       |       |        |
| <b>1. GENERATION</b>                |       |       |       |       |       |       |       |       |       |        |
| Total gross generation              | 18894 | 28501 | 34204 | 38982 | 43274 | 49720 | 51156 | 69186 | 70170 | 69433  |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |        |
| Hydro                               | 10780 | 9303  | 13175 | 13054 | 7619  | 12330 | 10860 | 12242 | 15051 | 12780  |
|                                     |       |       |       | 88    | 123   | -     | -     | 17    | 24    | 49     |
| Geothermal                          | 4     | 4     | 51    | 58    | 80    | -     | -     | -     | -     | -      |
| Nuclear                             | -     | -     | -     | -     | -     | 19060 | 19220 | 20894 | 21853 | 22974  |
| Conventional thermal                | 8110  | 19193 | 20942 | 25782 | 35452 | 18330 | 21076 | 36033 | 33242 | 33630  |
| <i>of which :</i>                   |       |       |       |       |       |       |       |       |       |        |
| Hard coal                           | 970   | 9059  | 12956 | 11979 | 15046 | 15560 | 10040 | 19252 | 12986 | 13393  |
| Lignite                             | -     | -     | -     | -     | -     | -     | -     | -     | -     | -      |
| Petroleum products                  | 6600  | 9399  | 6776  | 10687 | 11009 | 1330  | 1680  | 1378  | 1043  | 773    |
| Natural gas                         | -     | -     | 89    | 2018  | 8074  | 1440  | 4660  | 6884  | 8823  | 10113  |
| Derived gases                       | -     | 45    | 85    | 76    | 85    | -     | -     | 327   | 655   | 655    |
| Biomass                             | 540   | 689   | 1036  | 1022  | 1238  | -     | 4696  | 6972  | 7529  | 8363   |
| Other fuels                         | -     | 1     | -     | -     | -     | -     | -     | 1220  | 2206  | 333    |
| <b>2. BALANCE</b>                   |       |       |       |       |       |       |       |       |       |        |
| Total gross generation              | 18894 | 28501 | 34204 | 38982 | 43274 | 49720 | 51156 | 69186 | 70170 | 69433  |
| Total net generation                | 18581 | 27284 | 32854 | 37477 | 41739 | 47320 | 48768 | 66160 | 67325 | 66655  |
| Total imports                       | 3530  | 1733  | 5376  | 3974  | 3628  | 5635  | 11007 | 8103  | 9582  | 11356  |
| Total exports                       | 1284  | 1696  | 2477  | 3700  | 4488  | 941   | 364   | 450   | 276   | 232    |
| Consumption for pumped-storage      | 128   | 209   | 100   | 101   | 491   | -     | -     | -     | -     | -      |
| Network losses                      | 2812  | 3162  | 3217  | 3240  | 3648  | 3021  | 2761  | 2535  | 2966  | 2689   |
| Energy branch consumption           | 327   | 406   | 497   | 566   | 621   | 470   | 530   | 908   | 860   | 890    |
| Final energy consumption            | 17402 | 23544 | 31940 | 33845 | 36120 | 48519 | 58943 | 70361 | 72806 | 74200  |
| <i>of which :</i>                   |       |       |       |       |       |       |       |       |       |        |
| Industry                            | 9028  | 12219 | 13932 | 14574 | 15094 | 27327 | 32518 | 39477 | 40773 | 41520  |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |        |
|                                     |       |       |       | 728   | 777   | 1619  | 1858  | 2355  | 2444  | 2537   |
| Non-ferrous metals                  | 622   | 147   | 103   | 106   | 113   | 1281  | 1472  | 1865  | 1936  | 2033   |
| Chemical industry                   | 1570  | 2004  | 1979  | 2074  | 2135  | 3230  | 3655  | 4300  | 4318  | 4385   |
| Non-metallic mineral products       | 1211  | 1760  | 1996  | 2086  | 2213  | 700   | 860   | 720   | 790   | 850    |
| Food, drink, tobacco                | 752   | 1100  | 1400  | 1432  | 1477  | 1080  | 1300  | 1480  | 1520  | 1540   |
| Engineering & metal industry        | 778   | 1124  | 1241  | 1337  | 1410  | 1750  | 1785  | 2100  | 2400  | 2570   |
| Transport                           | 271   | 310   | 338   | 366   | 365   | 365   | 425   | 495   | 515   | 520    |
| Services & households etc.          | 8103  | 11015 | 17670 | 18905 | 20661 | 20827 | 26000 | 30389 | 31518 | 32160  |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |        |
| Households                          | 4361  | 5920  | 8423  | 8784  | 9523  | 12183 | 14599 | 17421 | 18141 | 18445  |
| <b>3. EXTERNAL TRADE</b>            |       |       |       |       |       |       |       |       |       |        |
| Extra-EU imports                    | 3530  | 0     | 0     | 0     | 0     | 5635  | 11007 | 4360  | 5290  | 5316   |
| Intra-EU imports                    | -     | 1733  | 5376  | 3974  | 3628  | -     | -     | 3743  | 4292  | 6040   |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |        |
| France                              | -     | -     | -     | -     | -     | -     | -     | -     | -     | -      |
| <b>4. CONSUMPTION PER CAPITA</b>    |       |       |       |       |       |       |       |       |       |        |
| <i>(in kWh/cap.)</i>                |       |       |       |       |       |       |       |       |       |        |
| Inland market                       | 1770  | 2420  | 3261  | 3452  | 3685* | 9993  | 11927 | 13865 | 14295 | 14572* |
| Households                          | 435   | 598   | 846   | 881   | 955*  | 2485  | 2927  | 3389  | 3520  | 3579*  |
| <b>5. FUEL CONSUMPTION (*)</b>      |       |       |       |       |       |       |       |       |       |        |
| <i>(in 1000 toe)</i>                |       |       |       |       |       |       |       |       |       |        |
| Conventional thermal power stations | 1857  | 4303  | 4600  | 5379  | 7276  | 4414  | 5407  | 8025  | 6720  | 7100   |
| <i>among which:</i>                 |       |       |       |       |       |       |       |       |       |        |
| Solid fuels                         | 219   | 2026  | 2867  | 2645  | 3255  | 2759  | 3009  | 4799  | 3358  | 3302   |
| Petroleum products                  | 1508  | 2104  | 1446  | 2114  | 2234  | 169   | 293   | 284   | 236   | 507    |
| Natural gas                         | -     | -     | 24    | 377   | 1353  | 312   | 911   | 1417  | 1654  | 1664   |
| for electricity generation          | 1821  | 4272  | 4525  | 5290  | 7180  | 3158  | 3773  | 5365  | 4293  | 4555   |
| for heat production                 | 36    | 31    | 74    | 89    | 95    | 1255  | 1633  | 2660  | 2427  | 2544   |

(\*) For Italy, includes the use of geothermal heat



# Electricité

## Principaux agrégats

Sverige

United Kingdom

| 1985                                   | 1990   | 1997   | 1998   | 1999   | 1985   | 1990   | 1997   | 1998   | 1999   | en GWh                             |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------------------|
| <b>Electricité</b>                     |        |        |        |        |        |        |        |        |        |                                    |
| <b>1. PRODUCTION</b>                   |        |        |        |        |        |        |        |        |        |                                    |
| 137136                                 | 146917 | 149424 | 158275 | 155354 | 296851 | 318963 | 345378 | 362015 | 366797 | Production brute totale            |
| 71590                                  | 73030  | 69056  | 74378  | 71782  | 6930   | 7145   | 5613   | 6861   | 8254   | <i>dont :</i>                      |
| 6                                      | 6      | 205    | 316    | 371    | 1      | 9      | 665    | 877    | 897    | Hydraulique                        |
| -                                      | -      | -      | -      | -      | -      | -      | -      | -      | -      | Eolienne                           |
| 58560                                  | 68190  | 69928  | 73583  | 73188  | 61100  | 65750  | 98146  | 100140 | 96281  | Géothermique                       |
| 6980                                   | 5691   | 10235  | 9998   | 10013  | 228820 | 246059 | 240954 | 254137 | 261365 | Nucléaire                          |
| 1980                                   | 1740   | 2106   | 2102   | 1978   | 176692 | 204919 | 119793 | 122862 | 106072 | Thermique classique                |
| -                                      | -      | -      | -      | -      | -      | -      | -      | -      | -      | <i>soit :</i>                      |
| 3110                                   | 1200   | 3831   | 3264   | 3013   | 48091  | 33703  | 8056   | 6489   | 5551   | Houille                            |
| 40                                     | 400    | 610    | 431    | 406    | 2882   | 3310   | 107457 | 117124 | 141365 | Lignite                            |
| -                                      | -      | 792    | 1113   | 1173   | 1155   | 1774   | 3062   | 4423   | 4390   | Produits pétroliers                |
| 1443                                   | 2103   | 2896   | 2770   | 3183   | -      | 678    | 2250   | 2917   | 3987   | Gaz naturel                        |
| 407                                    | 248    | -      | 318    | 260    | -      | 1675   | 336    | 322    | -      | Gaz dérivés                        |
| -                                      | -      | -      | -      | -      | -      | -      | -      | -      | -      | Biomasse                           |
| -                                      | -      | -      | -      | -      | -      | -      | -      | -      | -      | Autres combustibles                |
| <b>2. BILAN</b>                        |        |        |        |        |        |        |        |        |        |                                    |
| 137136                                 | 146917 | 149424 | 158275 | 155354 | 296851 | 318963 | 345378 | 362015 | 366797 | Production brute totale            |
| 133176                                 | 142867 | 143171 | 153788 | 150975 | 277927 | 299390 | 329080 | 344329 | 349341 | Production nette totale            |
| 5174                                   | 12909  | 10252  | 6102   | 8500   | -      | 11990  | 16615  | 12630  | 14507  | Importations totales               |
| 6683                                   | 14677  | 12960  | 16799  | 16100  | -      | 47     | 41     | 162    | 263    | Exportations totales               |
| 859                                    | 757    | 62     | 77     | 100    | 3494   | 2626   | 2477   | 2594   | 3774   | Energie absorbée pour le pompage   |
| 10790                                  | 9208   | 10430  | 10602  | 10787  | 22630  | 24293  | 25691  | 29162  | 29872  | Pertes sur les réseaux             |
| 6390                                   | 10390  | 9274   | 9026   | 7147   | 9722   | 9866   | 8235   | 9397   | 9587   | Consommation de la branche énergie |
| 113625                                 | 120347 | 122768 | 123525 | 125344 | 242075 | 274433 | 309252 | 315644 | 320352 | Consommation finale énergétique    |
| 48914                                  | 53955  | 53496  | 54369  | 53263  | 88009  | 100643 | 104744 | 105547 | 108515 | <i>soit :</i>                      |
| 5480                                   | 4445   | 5177   | 4997   | 4963   | 8995   | 9071   | 10355  | 9699   | 9899   | Industrie                          |
| 2515                                   | 2728   | 2696   | 2700   | 2664   | 6332   | 6714   | 5281   | 5698   | 5895   | <i>dont :</i>                      |
| 6142                                   | 6664   | 4896   | 5988   | 6004   | 17847  | 18193  | 18967  | 19493  | 19851  | Sidérurgie                         |
| 1237                                   | 1450   | 1123   | 1115   | 1127   | 6786   | 7513   | 7257   | 7051   | 7217   | Métaux non-ferreux                 |
| 2030                                   | 2597   | 2369   | 2435   | 2512   | 8540   | 10940  | 11564  | 11765  | 12003  | Chimie                             |
| 6346                                   | 7218   | 4349   | 4269   | 4214   | 18381  | 20897  | 19957  | 20143  | 20467  | Prod. minéraux non-métalliques     |
| 2619                                   | 2474   | 2955   | 2803   | 2796   | 2952   | 5283   | 7760   | 8372   | 8459   | Alimentation, boissons, tabac      |
| 62092                                  | 63918  | 66317  | 66353  | 69285  | 151114 | 168507 | 196748 | 201725 | 203378 | Fabrications métalliques           |
| 39721                                  | 38095  | 42575  | 42336  | 41881  | 88228  | 93793  | 104455 | 109610 | 110408 | Transport                          |
| 4324                                   | 12689  | 3676   | 3007   | 5900   | -      | 0      | 0      | 0      | 0      | Services & ménages etc.            |
| 850                                    | 220    | 6576   | 3095   | 2600   | -      | 11990  | 16615  | 12630  | 14507  | <i>dont :</i>                      |
| -                                      | -      | -      | -      | -      | -      | 11990  | 16563  | 12630  | 14507  | Ménages                            |
| <b>3. COMMERCE EXTERIEUR</b>           |        |        |        |        |        |        |        |        |        |                                    |
| 4324                                   | 12689  | 3676   | 3007   | 5900   | -      | 0      | 0      | 0      | 0      | Importations extra-UE              |
| 850                                    | 220    | 6576   | 3095   | 2600   | -      | 11990  | 16615  | 12630  | 14507  | Importations intra-UE              |
| -                                      | -      | -      | -      | -      | -      | 11990  | 16563  | 12630  | 14507  | <i>dont :</i>                      |
| -                                      | -      | -      | -      | -      | -      | 11990  | 16563  | 12630  | 14507  | France                             |
| <b>4. CONSOMMATION PAR HABITANT</b>    |        |        |        |        |        |        |        |        |        |                                    |
| (en kWh/hab.)                          |        |        |        |        |        |        |        |        |        |                                    |
| 14373                                  | 15274  | 14926  | 14975  | 14969* | 4442   | 4939   | 5380   | 5497   | 5676*  | Marché intérieur                   |
| 4757                                   | 4450   | 4812   | 4783   | 4731*  | 1556   | 1629   | 1770   | 1853   | 1899*  | Ménages                            |
| <b>5. CONSOMMATION DE COMBUSTIBLES</b> |        |        |        |        |        |        |        |        |        |                                    |
| (en 1000 tep)                          |        |        |        |        |        |        |        |        |        |                                    |
| 2926                                   | 1341   | 2826   | 3112   | 3258   | 54330  | 57108  | 48937  | 53708  | 52111  | Centrales thermiques classiques    |
| 887                                    | 629    | 610    | 653    | 450    | 42125  | 47571  | 27082  | 30157  | 25159  | <i>dont :</i>                      |
| 1149                                   | 225    | 607    | 631    | 502    | 10717  | 7590   | 1754   | 1066   | 698    | Combustibles solides               |
| 4                                      | 123    | 252    | 255    | 231    | 748    | 1013   | 18820  | 20631  | 24246  | Produits pétroliers                |
| 1494                                   | 393    | 747    | 938    | 1185   | 54317  | 56612  |        |        |        | Gaz naturel                        |
| 1431                                   | 947    | 2078   | 2173   | 2072   | 13     | 495    |        |        |        | <i>soit :</i>                      |
|  |        |        |        |        |        |        |        |        |        | pour production d'électricité      |
|  |        |        |        |        |        |        |        |        |        | pour production de chaleur         |

# Electricity / Renewable Energy Sources

## Principal aggregates

EU-15

Belgique/België

|   | 1985   | 1990   | 1997   | 1998   | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| <b>Electricity</b>  |        |        |        |        |        |       |       |       |       |       |
| <b>NET ELECTRICAL CAPACITY (MWe)</b>  |        |        |        |        |        |       |       |       |       |       |
| Total installed capacity  | 458892 | 499920 | 558813 | 561874 | 574644 | 14130 | 14145 | 14693 | 15395 | 15569 |
| <i>by source :</i>  |        |        |        |        |        |       |       |       |       |       |
| Conventional thermal  | 271850 | 274500 | 313509 | 316010 | 322155 | 7370  | 7240  | 7572  | 8272  | 8442  |
| <i>of which:</i>  |        |        |        |        |        |       |       |       |       |       |
| Steam   | 249290 | 247954 | 251223 | 246350 | 246602 | 6446  | 6324  | 5904  | 5363  | 4719  |
| Gas turbine   | 17611  | 18566  | 25544  | 24367  | 24835  | 401   | 276   | 212   | 776   | 1010  |
| Combined cycle  | 2453   | 3271   | 25774  | 32777  | 37179  | 65    | 186   | 1196  | 2093  | 2513  |
| Internal combustion   | 2278   | 2530   | 6167   | 6833   | 7723   | 172   | 189   | -     | 20    | 200   |
| Nuclear   | 85062  | 114670 | 124180 | 123130 | 124700 | 5430  | 5500  | 5713  | 5713  | 5713  |
| Hydro   | 101480 | 109764 | 115985 | 115962 | 118241 | 1330  | 1400  | 1403  | 1404  | 1404  |
| <i>among which:</i>   |        |        |        |        |        |       |       |       |       |       |
| Pumped storage  | 20770  | 27927  | 29686  | 32385  | 32071  | 1240  | 1310  | 1307  | 1307  | 1307  |
| Geothermal  | 440    | 503    | 539    | 559    | 597    | -     | -     | -     | -     | -     |
| Wind  | 60     | 483    | 4600   | 6213   | 8951   | -     | 5     | 5     | 6     | 10    |
| Other   | -      | -      | -      | -      | -      | -     | -     | -     | -     | -     |
| <i>by producer type :</i>   |        |        |        |        |        |       |       |       |       |       |
| Public system   | 414630 | 456594 | 508390 | 508744 | 511330 | 13350 | 13400 | 14066 | 14773 | 14924 |
| Autoproducers   | 44370  | 43309  | 50890  | 53415  | 55363  | 770   | 750   | 627   | 622   | 645   |
| Energy capability (GWh)   | :      | :      | :      | :      | :      | 263   | 263   | 263   | 263   | 263   |
| <b>Renewable Energy Sources (R.E.S.)</b>                                    |        |        |        |        |        |       |       |       |       |       |
| <b>1. BALANCE (ktoe)</b>  |        |        |        |        |        |       |       |       |       |       |
| Total primary production  | 67026  | 65689  | 81422  | 84268  | 84552* | 455   | 648   | 684   | 718   | 706   |
| <i>of which:</i>  |        |        |        |        |        |       |       |       |       |       |
| Hydro   | 24400  | 22274  | 25452  | 26263  | 26202  | 24    | 22    | 26    | 33    | 29    |
| Wind  | 5      | 66     | 631    | 1039   | 1225   | -     | -     | -     | -     | 1     |
| Solar   | 91     | 158    | 321    | 353    | 369*   | -     | -     | -     | -     | -     |
| <i>among which:</i>   |        |        |        |        |        |       |       |       |       |       |
| Solar heat  | 91     | 157    | 318    | 348    | 362*   | -     | -     | -     | -     | -     |
| Geothermal  | 1790   | 2217   | 2815   | 2998   | 3020*  | -     | 1     | 1     | 1     | 1     |
| Biomass   | 40738  | 40972  | 52200  | 53612  | 53735* | 429   | 623   | 654   | 681   | 673   |
| <i>among which:</i>   |        |        |        |        |        |       |       |       |       |       |
| Wood, wood-waste  | -      | 36045  | 44606  | 45218  | 45077* | -     | 335   | 300   | 345   | 348   |
| Municipal solid waste   | -      | 4103   | 5968   | 6407   | 6582*  | -     | 280   | 341   | 313   | 304   |
| Biogas  | -      | 823    | 1625   | 1986   | 2075*  | -     | 6     | 12    | 21    | 20    |
| Final energy consumption  | 34713  | 34474  | 40198  | 41252  | 40768* | 311   | 307   | 209   | 236   | 325   |
| <i>among which:</i>   |        |        |        |        |        |       |       |       |       |       |
| Industry  | 12342  | 12366  | 14199  | 14154  | 13763* | 126   | 120   | 39    | 65    | 144   |
| Services & households etc.  | 22371  | 22107  | 25999  | 27098  | 27004* | 185   | 187   | 170   | 170   | 180   |
| <b>2. INDICES (%)</b>   |        |        |        |        |        |       |       |       |       |       |
| <u>Primary production of biomass</u><br>Primary production of R.E.S.        | 60.8   | 62.4   | 64.1   | 63.6   | 63.6*  | 94.3  | 96.1  | 95.6  | 94.8  | 95.3  |
| <u>Primary production of R.E.S.</u><br>Total primary production             | 9.1    | 9.3    | 10.7   | 11.2   | 11.0*  | 3.5   | 5.4   | 5.4   | 5.9   | 5.3   |
| <u>Gross inland consumption of R.E.S.</u><br>Total gross inland consumption | 5.4    | 5.0    | 5.8    | 5.9    | 5.9*   | 1.0   | 1.4   | 1.2   | 1.3   | 1.2   |
| Share of electricity of R.E.S. origin                                       | 17.3   | 14.4   | 14.6   | 15.0   | 15.2   | 2.9   | 2.0   | 2.3   | 2.4   | 2.8   |

# Elektrische Energie / Erneuerbare Energiequellen Hauptaggregate

Danmark

Deutschland

| 1985                                     | 1990 | 1997  | 1998  | 1999  | 1985                              | 1990  | 1997   | 1998   | 1999   |   |
|--|------|-------|-------|-------|-----------------------------------|-------|--------|--------|--------|---|
| <b>Elektrizität</b>                      |      |       |       |       | <b>NETTOENGPASSLEISTUNG (MWe)</b> |       |        |        |        |   |
| 8570                                     | 9133 | 11813 | 12545 | 12728 | 92710                             | 97598 | 113983 | 113624 | 114691 | Installierte Gesamtleistung   |
|  |      |       |       |       | <i>nach Quellen:</i>              |       |        |        |        |   |
| 8510                                     | 8780 | 10673 | 11091 | 10946 | 69940                             | 68440 | 80862  | 79784  | 79371  | Herkömmliche Wärmekraft   |
|  |      |       |       |       | <i>darunter:</i>                  |       |        |        |        |   |
| 8131                                     | 8285 | 8824  | 9061  | 8893  | 64708                             | 63135 | 71896  | 70795  | 70259  | Dampf   |
| 225                                      | 272  | 450   | 549   | 549   | 5009                              | 5078  | 8340   | 6444   | 6417   | Gasturbine  |
| -  | -    | 494   | 523   | 533   | -                                 | -     | -      | 1712   | 1790   | Kombinierter Kreis  |
| 63                                       | 67   | 906   | 958   | 970   | 218                               | 228   | 626    | 833    | 905    | Interne Verbrennung   |
| -  | -    | -     | -     | -     | 16100                             | 22260 | 22314  | 22314  | 22329  | Kernkraft   |
| 10                                       | 10   | 10    | 11    | 11    | 6670                              | 6850  | 8841   | 8854   | 8853   | Wasserkraft   |
|  |      |       |       |       | <i>davon:</i>                     |       |        |        |        |   |
| -  | -    | -     | -     | -     | 6130                              | 6310  | 4545   | 5857   | 5886   | Pumpspeicherwerke   |
| -  | -    | -     | -     | -     | -                                 | -     | -      | -      | -      | Erdwärme  |
| 50                                       | 343  | 1130  | 1443  | 1771  | -                                 | 48    | 1966   | 2672   | 4138   | Windenergie   |
| -  | -    | -     | -     | -     | -                                 | -     | -      | -      | -      | Sonstige  |
|  |      |       |       |       | <i>nach Erzeugern:</i>            |       |        |        |        |   |
| 8480                                     | 8980 | 11377 | 11999 | 12170 | 78520                             | 84186 | 101804 | 101728 | 97784  | Öffentliche Verteilung  |
| 90                                       | 160  | 436   | 547   | 558   | 14180                             | 13500 | 12181  | 11898  | 11437  | Selbsterzeuger  |
| 25                                       | 32   | 32    | 32    | 32    | 16157                             | 18366 | 22500  | 22500  | 22500  | Arbeitsvermögen (GWh)   |
| <b>Erneuerbare Energiequellen (E.E.)</b> |      |       |       |       |                                   |       |        |        |        |   |
|  |      |       |       |       | <b>1. BILANZ (kt RÖE)</b>         |       |        |        |        |   |
| 964                                      | 1149 | 1717  | 1772  | 1847  | 5663                              | 5705  | 7495   | 8504   | 8731   | Primärerzeugung insgesamt   |
|  |      |       |       |       | <i>soit:</i>                      |       |        |        |        |   |
| 2  | 2    | 1     | 2     | 2     | 1353                              | 1384  | 1492   | 1510   | 1689   | Wasserkraft   |
| 4  | 52   | 166   | 242   | 260   | -                                 | 6     | 260    | 394    | 475    | Windenergie   |
| 1  | 1    | 6     | 7     | 7     | 3                                 | 8     | 69     | 82     | 78     | Sonnenenergie   |
|  |      |       |       |       | <i>davon:</i>                     |       |        |        |        |   |
| 1  | 1    | 6     | 7     | 7     | 3                                 | 8     | 68     | 79     | 75     | Sonnenwärme   |
| 1  | 1    | 1     | 1     | 1     | 6                                 | 6     | 9      | 9      | 9      | Erdwärme  |
| 955                                      | 1092 | 1541  | 1518  | 1575  | 4299                              | 4299  | 5663   | 6505   | 6478   | Biomasse  |
|  |      |       |       |       | <i>davon:</i>                     |       |        |        |        |   |
| -  | 679  | 824   | 802   | 817   | -                                 | 2943  | 4189   | 4546   | 4442   | Holz, Holzabfälle   |
| -  | 382  | 659   | 652   | 695   | -                                 | 1062  | 1082   | 1338   | 1415   | Städtischer Müll  |
| -  | 29   | 57    | 63    | 63    | -                                 | 292   | 391    | 619    | 620    | Biogas  |
| 480                                      | 541  | 520   | 501   | 492   | 3115                              | 3070  | 4078   | 4837   | 4738   | Energetischer Endverbrauch  |
|  |      |       |       |       | <i>davon:</i>                     |       |        |        |        |   |
| 143                                      | 206  | 115   | 114   | 96    | 931                               | 875   | 325    | 387    | 381    | Industrie   |
| 336                                      | 335  | 405   | 386   | 396   | 2184                              | 2195  | 3752   | 4449   | 4357   | Dienstleistungen & Haushalte usw.   |
| <b>(%)</b>                               |      |       |       |       |                                   |       |        |        |        |   |
|  |      |       |       |       | <b>2. INDIZES</b>                 |       |        |        |        |   |
| 99.1                                     | 95.0 | 89.7  | 85.7  | 85.3  | 75.9                              | 75.4  | 75.6   | 76.5   | 74.2   | <u>Primärerzeugung an Biomasse</u><br>Primärerzeugung an E.E.             |
| 19.9                                     | 11.6 | 8.5   | 8.8   | 7.8   | 2.7                               | 3.1   | 5.4    | 6.5    | 6.5    | <u>Primärerzeugung an E.E.</u><br>Primärerzeugung insgesamt               |
| 4.9                                      | 6.3  | 8.0   | 8.4   | 9.2   | 1.6                               | 1.6   | 2.2    | 2.5    | 2.6    | <u>Bruttoinlandsverbrauch an E.E.</u><br>Bruttoinlandsverbrauch insgesamt |
| 0.3                                      | 3.0  | 7.4   | 10.5  | 12.4  | 5.6                               | 5.1   | 5.0    | 5.6    | 6.3    | Elektrizitätsanteil an Erneuerbarer Energie                               |

# Electricity / Renewable Energy Sources

## Principal aggregates

Ellada

España

|   | 1985 | 1990 | 1997 | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| <b>Electricity</b>                        |      |      |      |       |       |       |       |       |       |       |
| <b>NET ELECTRICAL CAPACITY (MWe)</b>      |      |      |      |       |       |       |       |       |       |       |
| Total installed capacity                  | 7130 | 8514 | 9575 | 10017 | 10905 | 39610 | 43417 | 48586 | 50010 | 52413 |
| <i>by source :</i>                        |      |      |      |       |       |       |       |       |       |       |
| Conventional thermal                      | 5100 | 6100 | 6818 | 7120  | 7692  | 19530 | 20210 | 24191 | 25243 | 25644 |
| <i>of which:</i>                          |      |      |      |       |       |       |       |       |       |       |
| Steam                                     | 4549 | 5422 | 5767 | 6006  | 5965  | 18241 | 18455 | 20422 | 20589 | 20603 |
| Gas turbine                               | 350  | 317  | 229  | 370   | 370   | 223   | 442   | 1068  | 1419  | 1419  |
| Combined cycle                            | -    | 66   | 373  | 373   | 922   | 806   | 936   | 1466  | 1530  | 1530  |
| Internal combustion                       | 197  | 292  | 449  | 371   | 435   | 263   | 376   | 1235  | 1705  | 2092  |
| Nuclear                                   | -    | -    | -    | -     | -     | 5550  | 6970  | 7250  | 7300  | 7354  |
| Hydro                                     | 2030 | 2410 | 2727 | 2856  | 3102  | 14530 | 16230 | 16691 | 16632 | 17920 |
| <i>among which:</i>                       |      |      |      |       |       |       |       |       |       |       |
| Pumped storage                            | 210  | 320  | 315  | 615   | 615   | 3580  | 4910  | 5095  | 5095  | 5095  |
| Geothermal                                | -    | 2    | 2    | 2     | 2     | -     | -     | -     | -     | -     |
| Wind                                      | -    | 2    | 28   | 39    | 109   | -     | 7     | 454   | 835   | 1495  |
| Other                                     | -    | -    | -    | -     | -     | -     | -     | -     | -     | -     |
| <i>by producer type :</i>                 |      |      |      |       |       |       |       |       |       |       |
| Public system                             | 7000 | 8310 | 9353 | 9784  | 10623 | 38480 | 42090 | 45258 | 45654 | 47738 |
| Autoproducers                             | 130  | 140  | 222  | 233   | 282   | 1140  | 1320  | 3335  | 4363  | 4684  |
| Energy capability (GWh)                   | 3903 | 4276 | 3803 | 3800  | 3800  | 34550 | 35383 | 35726 | 35700 | 35700 |
| <b>Renewable Energy Sources (R.E.S.)</b>  |      |      |      |       |       |       |       |       |       |       |
| <b>1. BALANCE (ktoe)</b>                  |      |      |      |       |       |       |       |       |       |       |
| Total primary production                  | 1106 | 1104 | 1364 | 1354  | 1469  | 6529  | 5960  | 6941  | 7114  | 6130  |
| <i>of which:</i>                          |      |      |      |       |       |       |       |       |       |       |
| Hydro                                     | 241  | 152  | 333  | 319   | 416   | 2688  | 2184  | 2988  | 2923  | 1965  |
| Wind                                      | -    | -    | 3    | 6     | 13    | -     | 1     | 61    | 184   | 235   |
| Solar                                     | 28   | 74   | 113  | 118   | 124   | 18    | 21    | 25    | 26    | 29    |
| <i>among which:</i>                       |      |      |      |       |       |       |       |       |       |       |
| Solar heat                                | 28   | 74   | 113  | 118   | 124   | 18    | 21    | 24    | 26    | 27    |
| Geothermal                                | 1    | 2    | 2    | 2     | 2     | -     | 2     | 6     | 6     | 4     |
| Biomass                                   | 835  | 875  | 911  | 907   | 912   | 3821  | 3751  | 3859  | 3972  | 3894  |
| <i>among which:</i>                       |      |      |      |       |       |       |       |       |       |       |
| Wood, wood-waste                          | -    | 874  | 910  | 906   | 911   | -     | 3660  | 3537  | 3615  | 3605  |
| Municipal solid waste                     | -    | -    | -    | -     | -     | -     | 81    | 243   | 275   | 198   |
| Biogas                                    | -    | -    | -    | -     | 1     | -     | 10    | 78    | 81    | 89    |
| Final energy consumption                  | 889  | 952  | 1027 | 1028  | 1037  | 3781  | 3681  | 3293  | 3409  | 3426  |
| <i>among which:</i>                       |      |      |      |       |       |       |       |       |       |       |
| Industry                                  | 143  | 172  | 209  | 204   | 208   | 1731  | 1584  | 1270  | 1385  | 1401  |
| Services & households etc.                | 746  | 779  | 817  | 824   | 828   | 2049  | 2097  | 2022  | 2024  | 2025  |
| <b>2. INDICES (%)</b>                     |      |      |      |       |       |       |       |       |       |       |
| <u>Primary production of biomass</u>      | 75.5 | 79.3 | 66.8 | 67.0  | 62.1  | 58.5  | 62.9  | 55.6  | 55.8  | 63.5  |
| Primary production of R.E.S.              |      |      |      |       |       |       |       |       |       |       |
| <u>Primary production of R.E.S.</u>       | 15.1 | 12.1 | 13.7 | 13.5  | 15.5  | 21.6  | 17.9  | 22.5  | 22.6  | 20.2  |
| Total primary production                  |      |      |      |       |       |       |       |       |       |       |
| <u>Gross inland consumption of R.E.S.</u> | 6.0  | 5.0  | 5.3  | 5.0   | 5.5   | 8.8   | 6.7   | 6.5   | 6.4   | 5.2   |
| Total gross inland consumption            |      |      |      |       |       |       |       |       |       |       |
| Share of electricity of R.E.S. origin     | 10.1 | 5.7  | 9.5  | 8.5   | 10.5  | 26.4  | 17.4  | 20.0  | 20.2  | 14.3  |

# Electricité / Sources d'Energie Renouvelables

## Principaux agrégats

France

Ireland

| 1985  | 1990   | 1997   | 1998   | 1999   | 1985                                    | 1990 | 1997 | 1998 | 1999 |  |
|---|--------|--------|--------|--------|---|------|------|------|------|--|
| <b>Electricité</b>                              |        |        |        |        | <b>PUISSANCE ELECTRIQUE NETTE (MWe)</b> |      |      |      |      |  |
| 86560   | 103410 | 113905 | 112347 | 114583 | 3190                                    | 3820 | 4291 | 4457 | 4346 | Puissance installée totale   |
|   |        |        |        |        |   |      |      |      |      | <i>par source :</i>  |
| 27240   | 22670  | 25931  | 25558  | 26213  | 2680                                    | 3300 | 3720 | 3872 | 3754 | Thermique classique  |
|   |        |        |        |        |   |      |      |      |      | <i>soit :</i>  |
| 25455   | 21107  | 23262  | 22889  | 23560  | 1962                                    | 2608 | 2802 | 2802 | 2728 | Vapeur   |
| 1358  | 1203   | 2026   | 2026   | 2100   | 648                                     | 359  | 529  | 679  | 713  | Turbine à gaz  |
| -   | -      | -      | -      | -      | 258                                     | 258  | 275  | 275  | 275  | Cycle combiné  |
| 431   | 363    | 643    | 643    | 553    | 69                                      | 69   | 102  | 116  | 38   | Combustion interne   |
| 37490   | 55750  | 62875  | 61675  | 63183  | -                                       | -    | -    | -    | -    | Nucléaire  |
| 21830   | 24990  | 25089  | 25095  | 25170  | 510                                     | 520  | 525  | 525  | 525  | Hydraulique  |
|   |        |        |        |        |   |      |      |      |      | <i>dont :</i>  |
| 2560  | 4290   | 4292   | 4303   | 4302   | 290                                     | 280  | 292  | 292  | 292  | Accumulation par pompage   |
| -   | -      | -      | -      | -      | -                                       | -    | -    | -    | -    | Géothermique   |
| -   | -      | 10     | 19     | 17     | -                                       | -    | 46   | 60   | 67   | Eolienne   |
| -   | -      | -      | -      | -      | -                                       | -    | -    | -    | -    | Autre  |
|   |        |        |        |        |   |      |      |      |      | <i>par type de producteur :</i>  |
| 78050   | 95180  | 104098 | 102413 | 103701 | 3120                                    | 3730 | 4161 | 4325 | 4250 | Système public   |
| 8510  | 8230   | 10047  | 10174  | 10882  | 70                                      | 70   | 130  | 132  | 96   | Autoproducteurs  |
| 67730   | 69720  | 69794  | 69745  | 69745  | 730                                     | 731  | 700  | 700  | 700  | Productibilité (GWh)   |
| <b>Sources d'Energie Renouvelables (S.E.R.)</b> |        |        |        |        |   |      |      |      |      |  |
|   |        |        |        |        | <b>1. BILAN (ktep)</b>                  |      |      |      |      |  |
| 16233   | 15728  | 16645  | 16892  | 17553  | 154                                     | 167  | 197  | 259  | 256  | Production primaire totale   |
|   |        |        |        |        |   |      |      |      |      | <i>soit :</i>  |
| 5377  | 4636   | 5398   | 5387   | 6262   | 71                                      | 59   | 58   | 78   | 72   | Hydraulique  |
| -   | -      | 2      | 4      | 3      | -                                       | -    | 4    | 14   | 16   | Eolienne   |
| 14  | 12     | 16     | 17     | 17     | -                                       | -    | -    | -    | -    | Solaire  |
|   |        |        |        |        |   |      |      |      |      | <i>dont :</i>  |
| 14  | 12     | 16     | 17     | 17     | -                                       | -    | -    | -    | -    | Chaleur solaire  |
| 80  | 124    | 131    | 117    | 117    | -                                       | -    | -    | -    | -    | Géothermique   |
| 10761   | 10955  | 11097  | 11366  | 11152  | 83                                      | 107  | 135  | 165  | 167  | Biomasse   |
|   |        |        |        |        |   |      |      |      |      | <i>dont :</i>  |
| -   | 9788   | 9439   | 9656   | 9442   | -                                       | 105  | 109  | 130  | 130  | Bois, déchets de bois  |
| -   | 1050   | 1514   | 1560   | 1560   | -                                       | -    | -    | -    | -    | Déchets urbain   |
| -   | 116    | 143    | 149    | 149    | -                                       | 2    | 26   | 34   | 36   | Biogaz   |
| 9937  | 9793   | 9396   | 9598   | 9542   | 83                                      | 107  | 113  | 135  | 135  | Consommation finale énergétique  |
|   |        |        |        |        |   |      |      |      |      | <i>dont :</i>  |
| 1532  | 1666   | 1819   | 1844   | 1848   | 42                                      | 62   | 67   | 87   | 87   | Industrie  |
| 8405  | 8126   | 7577   | 7754   | 7693   | 40                                      | 44   | 45   | 48   | 48   | Services & ménages etc.  |
| <b>(%)</b>                                      |        |        |        |        | <b>2. INDICES</b>                       |      |      |      |      |  |
| 66.3  | 69.7   | 66.7   | 67.3   | 63.5   | 53.9                                    | 64.1 | 68.5 | 63.7 | 65.2 | <u>Production primaire de biomass</u><br>Production primaire de S.E.R.                 |
| 17.8  | 14.6   | 13.4   | 14.0   | 14.4   | 5.4                                     | 4.8  | 6.9  | 10.5 | 9.8  | <u>Production primaire de S.E.R.</u><br>Production primaire totale                     |
| 8.0   | 7.0    | 6.8    | 6.7    | 7.0    | 1.7                                     | 1.6  | 1.6  | 2.0  | 1.8  | <u>Consommation intérieure brute de S.E.R.</u><br>Consommation intérieure brute totale |
| 18.9  | 14.0   | 13.9   | 13.5   | 15.3   | 9.8                                     | 6.8  | 5.1  | 6.8  | 6.4  | Electricité d'origine renouvelable   |

# Electricity / Renewable Energy Sources

## Principal aggregates

Italia

Luxembourg

|  | 1985  | 1990  | 1997  | 1998  | 1999   | 1985  | 1990  | 1997  | 1998  | 1999  |
|--|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| <b>Electricity</b>                       |       |       |       |       |        |       |       |       |       |       |
| <b>NET ELECTRICAL CAPACITY (MWe)</b>     |       |       |       |       |        |       |       |       |       |       |
| Total installed capacity                 | 55512 | 56563 | 70252 | 72352 | 73684  | 1240  | 1240  | 1278  | 1210  | 1216  |
| <i>by source :</i>                       |       |       |       |       |        |       |       |       |       |       |
| Conventional thermal                     | 36100 | 37290 | 49657 | 51583 | 52426  | 110   | 110   | 135   | 59    | 68    |
| <i>of which:</i>                         |       |       |       |       |        |       |       |       |       |       |
| Steam                                    | 34171 | 34761 | 40020 | 40745 | 40728  | -     | -     | 102   | 9     | 9     |
| Gas turbine                              | 1718  | 2120  | 5592  | 5623  | 6027   | -     | -     | -     | -     | -     |
| Combined cycle                           | -     | 115   | 3504  | 4554  | 4924   | -     | -     | -     | -     | -     |
| Internal combustion                      | 209   | 236   | 541   | 651   | 747    | -     | -     | 15    | 32    | 59    |
| Nuclear                                  | 1152  | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| Hydro                                    | 17820 | 18770 | 19946 | 20058 | 20444  | 1130  | 1130  | 1140  | 1141  | 1139  |
| <i>among which:</i>                      |       |       |       |       |        |       |       |       |       |       |
| Pumped storage                           | 5660  | 6190  | 6886  | 7000  | 7027   | 1100  | 1100  | 1100  | 1100  | 1100  |
| Geothermal                               | 440   | 500   | 529   | 547   | 585    | -     | -     | -     | -     | -     |
| Wind                                     | -     | 3     | 120   | 164   | 229    | -     | -     | 3     | 10    | 9     |
| Other                                    | -     | -     | -     | -     | -      | -     | -     | -     | -     | -     |
| <i>by producer type :</i>                |       |       |       |       |        |       |       |       |       |       |
| Public system                            | 47590 | 49130 | 59667 | 60533 | 61252  | 1140  | 1140  | 1149  | 1144  | 1142  |
| Autoproducers                            | 8040  | 7420  | 10749 | 11983 | 12596  | 100   | 100   | 132   | 75    | 74    |
| Energy capability (GWh)                  | 45740 | 45768 | 42035 | 42000 | 42000  | 87    | 87    | 87    | 87    | 87    |
| <b>Renewable Energy Sources (R.E.S.)</b> |       |       |       |       |        |       |       |       |       |       |
| <b>1. BALANCE (ktoe)</b>                 |       |       |       |       |        |       |       |       |       |       |
| Total primary production                 | 8580  | 8170  | 12929 | 13279 | 13650* | 49    | 46    | 46    | 50    | 45    |
| <i>of which:</i>                         |       |       |       |       |        |       |       |       |       |       |
| Hydro                                    | 3533  | 2719  | 3577  | 3544  | 3900   | 6     | 5     | 6     | 9     | 8     |
| Wind                                     | -     | -     | 10    | 19    | 34     | -     | -     | -     | -     | 1     |
| Solar                                    | 4     | 5     | 8     | 10    | 10*    | -     | -     | -     | -     | -     |
| <i>among which:</i>                      |       |       |       |       |        |       |       |       |       |       |
| Solar heat                               | 4     | 4     | 7     | 9     | 9*     | -     | -     | -     | -     | -     |
| Geothermal                               | 1598  | 2073  | 2611  | 2800  | 2800*  | -     | -     | -     | -     | -     |
| Biomass                                  | 3343  | 3373  | 6721  | 6903  | 6903*  | 42    | 40    | 39    | 39    | 35    |
| <i>among which:</i>                      |       |       |       |       |        |       |       |       |       |       |
| Wood, wood-waste                         | -     | 3119  | 6454  | 6489  | 6489*  | -     | 15    | 15    | 15    | 15    |
| Municipal solid waste                    | -     | 191   | 171   | 272   | 272*   | -     | 24    | 23    | 22    | 20    |
| Biogas                                   | -     | 62    | 95    | 141   | 141*   | -     | -     | 1     | 1     | -     |
| Final energy consumption                 | 3133  | 3353  | 6582  | 6585  | 6585*  | 15    | 15    | 15    | 15    | 15    |
| <i>among which:</i>                      |       |       |       |       |        |       |       |       |       |       |
| Industry                                 | 979   | 991   | 945   | 945   | 945*   | -     | -     | -     | -     | -     |
| Services & households etc.               | 2154  | 2362  | 5637  | 5639  | 5639*  | 15    | 15    | 15    | 15    | 15    |
| <b>2. INDICES (%)</b>                    |       |       |       |       |        |       |       |       |       |       |
| Primary production of biomass            | 39.0  | 41.3  | 52.0  | 52.0  | 50.6*  | 85.7  | 87.0  | 84.8  | 78.0  | 77.8  |
| Primary production of R.E.S.             |       |       |       |       |        |       |       |       |       |       |
| Primary production of R.E.S.             | 34.5  | 30.0  | 37.2  | 38.5  | 41.3*  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Total primary production                 |       |       |       |       |        |       |       |       |       |       |
| Gross inland consumption of R.E.S.       | 6.3   | 5.3   | 7.7   | 7.7   | 7.8*   | 1.6   | 1.3   | 1.4   | 1.5   | 1.3   |
| Total gross inland consumption           |       |       |       |       |        |       |       |       |       |       |
| Share of electricity of R.E.S. origin    | 25.9  | 17.7  | 20.5  | 20.5  | 22.0   | 58.0  | 62.6  | 78.1  | 84.4  | 80.2  |

# Elektrische Energie / Erneuerbare Energiequellen Hauptaggregate

Niederland

Österreich

| 1985               | 1990  | 1997  | 1998  | 1999  | 1985                              | 1990  | 1997  | 1998  | 1999  |  |
|--------------------|-------|-------|-------|-------|-----------------------------------|-------|-------|-------|-------|--|
| <b>Electricité</b> |       |       |       |       | <b>NETTOENGPASSLEISTUNG (MWe)</b> |       |       |       |       |  |
| 17050              | 17567 | 20091 | 20158 | 20619 | 15250                             | 16690 | 17860 | 17456 | 17726 | Installierte Gesamtleistung                      |
| 16540              | 16960 | 19272 | 19311 | 19724 | 5080                              | 5740  | 6307  | 5982  | 6160  | <i>nach Quellen:</i><br>Herkömmliche Wärmekraft  |
| 14680              | 13845 | 10776 | 10062 | 10081 | 4765                              | 4246  | 4870  | 4632  | 4824  | <i>darunter:</i><br>Dampf                        |
| 779                | 1106  | 800   | 800   | 800   | 305                               | 467   | 313   | 256   | 256   | Gasturbine                                       |
| 968                | 1710  | 4898  | 5000  | 5393  | -                                 | -     | 993   | 979   | 968   | Kombinierter Kreis                               |
| 83                 | 267   | 650   | 700   | 700   | 62                                | 30    | 131   | 114   | 112   | Interne Verbrennung                              |
| 510                | 510   | 449   | 449   | 449   | -                                 | -     | -     | -     | -     | Kernkraft  |
| -                  | 40    | 37    | 37    | 37    | 10170                             | 10950 | 11533 | 11444 | 11531 | Wasserkraft                                      |
| -                  | -     | -     | -     | -     | -                                 | -     | 2975  | 3937  | 3568  | <i>davon:</i><br>Pumpspeicherwerke               |
| -                  | -     | -     | -     | -     | -                                 | -     | -     | -     | -     | Erdwärme   |
| -                  | 57    | 333   | 361   | 409   | -                                 | -     | 20    | 30    | 35    | Windenergie                                      |
| -                  | -     | -     | -     | -     | -                                 | -     | -     | -     | -     | Sonstige   |
| 15350              | 15324 | 17921 | 17387 | 17840 | 13660                             | 15090 | 16080 | 15730 | 15992 | <i>nach Erzeugern:</i><br>Öffentliche Verteilung |
| 1710               | 2240  | 2220  | 2823  | 2835  | 1590                              | 1600  | 1781  | 1728  | 1735  | Selbsterzeuger                                   |
| -                  | -     | -     | -     | -     | :                                 | :     | :     | :     | :     | Arbeitsvermögen (GWh)                            |

## Sources d'Energie Renouvelables (S.E.R.)

### 1. BILANZ (kt RÖE)

|     |     |      |      |      |      |      |      |      |      |                                    |
|-----|-----|------|------|------|------|------|------|------|------|------------------------------------|
| 812 | 770 | 1379 | 1454 | 1546 | 5651 | 5770 | 6655 | 6507 | 6642 | Primärerzeugung insgesamt          |
| -   | 7   | 7    | 9    | 7    | 2658 | 2707 | 3092 | 3191 | 3496 | <i>soit:</i><br>Wasserkraft        |
| -   | 4   | 40   | 55   | 55   | -    | -    | 1    | 3    | 3    | Windenergie                        |
| -   | 1   | 5    | 6    | 7    | 7    | 13   | 48   | 54   | 62   | Sonnenenergie                      |
| -   | 1   | 5    | 6    | 6    | 7    | 13   | 48   | 54   | 62   | <i>davon:</i><br>Sonnenwärme       |
| -   | -   | -    | -    | -    | -    | 1    | 5    | 6    | 12   | Erdwärme                           |
| 812 | 756 | 1325 | 1383 | 1475 | 2985 | 3047 | 3507 | 3250 | 3067 | Biomasse                           |
| -   | 262 | 254  | 267  | 267  | -    | 2973 | 3343 | 3090 | 2915 | <i>davon:</i><br>Holz, Holzabfälle |
| -   | 429 | 943  | 994  | 1090 | -    | 66   | 125  | 120  | 125  | Städtischer Müll                   |
| -   | 64  | 128  | 122  | 118  | -    | 7    | 39   | 39   | 26   | Biogas                             |
| 382 | 275 | 283  | 293  | 322  | 2706 | 2750 | 2789 | 2627 | 2553 | Energetischer Endverbrauch         |
| 47  | 52  | 70   | 78   | 73   | 406  | 395  | 866  | 554  | 550  | <i>davon:</i><br>Industrie         |
| 334 | 222 | 213  | 214  | 249  | 2300 | 2355 | 1922 | 2073 | 2003 | Dienstleistungen & Haushalte usw.  |

(%)

### 2. INDIZES

|       |      |      |      |      |      |      |      |      |      |  |
|-------|------|------|------|------|------|------|------|------|------|--|
| 100.0 | 98.2 | 96.1 | 95.1 | 95.4 | 52.8 | 52.8 | 52.7 | 49.9 | 46.2 | Primärerzeugung an Biomasse<br>Primärerzeugung an E.E.             |
| 1.2   | 1.3  | 2.1  | 2.3  | 2.6  | 67.0 | 66.3 | 73.0 | 71.5 | 70.9 | Primärerzeugung an E.E.<br>Primärerzeugung insgesamt               |
| 1.3   | 1.2  | 1.8  | 1.9  | 2.1  | 23.9 | 22.5 | 23.4 | 22.6 | 23.4 | Bruttoinlandsverbrauch an E.E.<br>Bruttoinlandsverbrauch insgesamt |
| 0.7   | 1.7  | 4.0  | 4.3  | 4.1  | 73.5 | 65.3 | 68.4 | 70.4 | 71.9 | Elektrizitätsanteil an Erneuerbarer Energie                        |

# Electricity / Renewable Energy Sources

## Principal aggregates

Portugal

Suomi/Finland

|   | 1985  | 1990  | 1997  | 1998  | 1999  | 1985  | 1990  | 1997  | 1998  | 1999  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Electricity</b>                        |       |       |       |       |       |       |       |       |       |       |
| <b>NET ELECTRICAL CAPACITY (MWe)</b>      |       |       |       |       |       |       |       |       |       |       |
| Total installed capacity                  | 6010  | 7396  | 9468  | 9786  | 10750 | 11320 | 13220 | 15697 | 16143 | 16164 |
| <i>by source :</i>                        |       |       |       |       |       |       |       |       |       |       |
| Conventional thermal                      | 2950  | 4050  | 4993  | 5227  | 6156  | 6510  | 8240  | 10274 | 10605 | 10605 |
| <i>of which:</i>                          |       |       |       |       |       |       |       |       |       |       |
| Steam                                     | 2127  | 2953  | 4058  | 4055  | 4009  | 5479  | 6882  | 6455  | 6578  | 6635  |
| Gas turbine                               | 334   | 334   | 329   | 329   | 329   | 1029  | 1357  | 1565  | 1700  | 1700  |
| Combined cycle                            | 356   | -     | -     | 225   | 990   | -     | -     | -     | -     | -     |
| Internal combustion                       | 129   | 290   | 606   | 618   | 828   | -     | -     | -     | -     | -     |
| Nuclear                                   | -     | -     | -     | -     | -     | 2300  | 2360  | 2550  | 2640  | 2640  |
| Hydro                                     | 3060  | 3344  | 4438  | 4501  | 4527  | 2510  | 2620  | 2861  | 2881  | 2881  |
| <i>among which:</i>                       |       |       |       |       |       |       |       |       |       |       |
| Pumped storage                            | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| Geothermal                                | -     | 1     | 8     | 10    | 10    | -     | -     | -     | -     | -     |
| Wind                                      | -     | 1     | 29    | 48    | 57    | -     | -     | 12    | 17    | 38    |
| Other                                     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| <i>by producer type :</i>                 |       |       |       |       |       |       |       |       |       |       |
| Public system                             | 5560  | 6864  | 8700  | 8986  | 9787  | 9840  | 11440 | 13443 | 13816 | 13894 |
| Autoproducers                             | 450   | 532   | 768   | 800   | 963   | 1480  | 1780  | 2254  | 2327  | 2270  |
| Energy capability (GWh)                   | 10749 | 10900 | 11397 | 11397 | 11397 | :     | :     | :     | :     | :     |
| <b>Renewable Energy Sources (R.E.S.)</b>  |       |       |       |       |       |       |       |       |       |       |
| <b>1. BALANCE (ktoe)</b>                  |       |       |       |       |       |       |       |       |       |       |
| Total primary production                  | 3097  | 2543  | 3213  | 3035  | 2656  | 5431  | 5270  | 6679  | 7247  | 7261  |
| <i>of which:</i>                          |       |       |       |       |       |       |       |       |       |       |
| Hydro                                     | 925   | 787   | 1126  | 1116  | 625   | 1060  | 933   | 1052  | 1294  | 1098  |
| Wind                                      | -     | -     | 3     | 7     | 10    | -     | -     | 1     | 2     | 4     |
| Solar                                     | 3     | 10    | 16    | 16    | 17    | -     | -     | -     | -     | -     |
| <i>among which:</i>                       |       |       |       |       |       |       |       |       |       |       |
| Solar heat                                | 3     | 10    | 16    | 16    | 17    | -     | -     | -     | -     | -     |
| Geothermal                                | -     | 3     | 44    | 50    | 69    | -     | -     | -     | -     | -     |
| Biomass                                   | 2168  | 1742  | 2021  | 1843  | 1932  | 4370  | 4336  | 5625  | 5951  | 6157  |
| <i>among which:</i>                       |       |       |       |       |       |       |       |       |       |       |
| Wood, wood-waste                          | -     | 1739  | 2018  | 1841  | 1874  | -     | 4307  | 5590  | 5929  | 6125  |
| Municipal solid waste                     | -     | -     | -     | -     | 56    | -     | 18    | 10    | 3     | 14    |
| Biogas                                    | -     | 2     | 3     | 2     | -     | -     | 10    | 24    | 18    | 18    |
| Final energy consumption                  | 2057  | 1603  | 1872  | 1703  | 1708  | 3248  | 3182  | 4107  | 4521  | 4550  |
| <i>among which:</i>                       |       |       |       |       |       |       |       |       |       |       |
| Industry                                  | 597   | 442   | 706   | 536   | 540   | 2173  | 2107  | 3033  | 3382  | 3431  |
| Services & households etc.                | 1460  | 1160  | 1166  | 1166  | 1167  | 1074  | 1074  | 1073  | 1139  | 1119  |
| <b>2. INDICES (%)</b>                     |       |       |       |       |       |       |       |       |       |       |
| <u>Primary production of biomass</u>      | 70.0  | 68.5  | 62.9  | 60.7  | 72.7  | 80.5  | 82.3  | 84.2  | 82.1  | 84.8  |
| Primary production of R.E.S.              |       |       |       |       |       |       |       |       |       |       |
| <u>Primary production of R.E.S.</u>       | 96.9  | 95.7  | 100.0 | 100.0 | 100.0 | 48.7  | 44.9  | 45.3  | 55.3  | 47.9  |
| Total primary production                  |       |       |       |       |       |       |       |       |       |       |
| <u>Gross inland consumption of R.E.S.</u> | 25.1  | 15.2  | 15.4  | 13.6  | 11.1  | 20.3  | 18.5  | 20.5  | 21.9  | 22.2  |
| Total gross inland consumption            |       |       |       |       |       |       |       |       |       |       |
| Share of electricity of R.E.S. origin     | 59.9  | 35.1  | 41.8  | 36.5  | 20.9  | 24.8  | 30.4  | 27.8  | 32.2  | 30.5  |



# Electricité / Sources d'Energie Renouvelables

## Principaux agrégats

Sverige

United Kingdom

| 1985  | 1990  | 1997  | 1998  | 1999  | 1985                                    | 1990  | 1997  | 1998  | 1999  |  |
|---|-------|-------|-------|-------|---|-------|-------|-------|-------|--|
| <b>Electricité</b>                              |       |       |       |       | <b>PUISSANCE ELECTRIQUE NETTE (MWe)</b> |       |       |       |       |  |
| 33180   | 34187 | 34536 | 33029 | 33588 | 67430                                   | 73020 | 72785 | 73345 | 75662 | Puissance installée totale                     |
| 8020  | 7880  | 7869  | 6508  | 6870  | 56170                                   | 57490 | 55235 | 55795 | 58084 | <i>par source :</i>                            |
| 6286  | 6173  | 5884  | 4437  | 4828  | 52290                                   | 53758 | 40181 | 38327 | 38761 | Thermique classique                            |
| 1660  | 1687  | 1905  | 1904  | 1812  | 3572                                    | 3548  | 2186  | 1492  | 1333  | <i>soit :</i>                                  |
| -   | -     | -     | 95    | 146   | -                                       | -     | 12575 | 15418 | 17195 | Vapeur   |
| 74  | 20    | 80    | 72    | 84    | 308                                     | 123   | 183   | -     | -     | Turbine à gaz                                  |
| 9460  | 9970  | 10083 | 10083 | 10076 | 7070                                    | 11350 | 12946 | 12956 | 12956 | Cycle combiné                                  |
| 15690   | 16330 | 16462 | 16260 | 16432 | 4190                                    | 4170  | 4282  | 4263  | 4265  | Combustion interne                             |
| -   | 427   | 91    | 91    | 91    | -                                       | 2790  | 2788  | 2788  | 2788  | Nucléaire                                      |
| -   | -     | -     | -     | -     | -                                       | -     | -     | -     | -     | Hydraulique                                    |
| 10  | 7     | 122   | 178   | 210   | -                                       | 10    | 322   | 331   | 357   | <i>dont :</i>                                  |
| -   | -     | -     | -     | -     | -                                       | -     | -     | -     | -     | Accumulation par pompage                       |
| 30670   | 32410 | 33025 | 32082 | 32724 | 63820                                   | 69320 | 68288 | 68390 | 67509 | Géothermique                                   |
| 2500  | 1777  | 1511  | 947   | 941   | 3610                                    | 3690  | 4497  | 4763  | 5365  | Eolienne                                       |
| 63412   | 63200 | 63600 | 63600 | 63600 | 4081                                    | 4081  | 4090  | 4090  | 4090  | Autre  |
|   |       |       |       |       |   |       |       |       |       | <i>par type de producteur :</i>                |
|   |       |       |       |       |   |       |       |       |       | Système public                                 |
|   |       |       |       |       |   |       |       |       |       | Autoproducteurs                                |
|   |       |       |       |       |   |       |       |       |       | Productibilité (GWh)                           |
|   |       |       |       |       |   |       |       |       |       |  |
| <b>Sources d'Energie Renouvelables (S.E.R.)</b> |       |       |       |       |   |       |       |       |       |  |
| 11362   | 11569 | 13414 | 13813 | 13474 | 931                                     | 1081  | 2057  | 2263  | 2580  | <b>1. BILAN (ktep)</b>                         |
| 6104  | 6234  | 5934  | 6391  | 6166  | 352                                     | 436   | 354   | 450   | 460   | Production primaire totale                     |
| -   | -     | 17    | 27    | 31    | -                                       | -     | 57    | 75    | 77    | <i>soit :</i>                                  |
| 2   | 3     | 4     | 4     | 4     | 5                                       | 5     | 6     | 6     | 6     | Hydraulique                                    |
| 2   | 3     | 4     | 4     | 4     | 5                                       | 5     | 6     | 6     | 6     | Eolienne                                       |
| -   | -     | -     | -     | -     | -                                       | -     | -     | -     | -     | Solaire  |
| 5254  | 5331  | 7458  | 7390  | 7271  | 573                                     | 639   | 1637  | 1730  | 2035  | <i>dont :</i>                                  |
| -   | 4976  | 6908  | 6870  | 6747  | -                                       | 260   | 710   | 710   | 944   | Chaleur solaire                                |
| -   | 354   | 425   | 416   | 422   | -                                       | 160   | 427   | 435   | 406   | Géothermique                                   |
| -   | -     | 124   | 103   | 102   | -                                       | 218   | 500   | 585   | 684   | Biomasse                                       |
| 4276  | 4570  | 5190  | 5040  | 4459  | 292                                     | 266   | 717   | 717   | 873   | <i>dont :</i>                                  |
| 3367  | 3630  | 4224  | 4060  | 3513  | 119                                     | 56    | 506   | 506   | 541   | Bois, déchets de bois                          |
| 910   | 940   | 966   | 979   | 946   | 172                                     | 209   | 211   | 211   | 332   | Déchets urbain                                 |
|   |       |       |       |       |   |       |       |       |       | Biogaz   |
|   |       |       |       |       |   |       |       |       |       | Consommation finale énergétique                |
|   |       |       |       |       |   |       |       |       |       | <i>dont :</i>                                  |
|   |       |       |       |       |   |       |       |       |       | Industrie                                      |
|   |       |       |       |       |   |       |       |       |       | Services & ménages etc                         |
|   |       |       |       |       |   |       |       |       |       |  |
|   |       |       |       |       |   |       |       |       |       | <b>2. INDICES</b>                              |
| 46.2  | 46.1  | 55.6  | 53.5  | 54.0  | 61.5                                    | 59.1  | 79.6  | 76.4  | 78.9  | <u>Production primaire de biomass</u>          |
| 42.5  | 39.1  | 42.3  | 45.6  | 41.4  | 0.4                                     | 0.5   | 0.8   | 0.8   | 0.9   | Production primaire de S.E.R.                  |
| 24.2  | 24.6  | 26.6  | 28.6  | 26.7  | 0.5                                     | 0.5   | 0.9   | 1.0   | 1.1   | Production primaire totale                     |
| 53.3  | 51.1  | 48.3  | 48.9  | 48.5  | 2.3                                     | 2.5   | 2.5   | 2.9   | 3.6   | <u>Consommation intérieure brute de S.E.R.</u> |
|   |       |       |       |       |   |       |       |       |       | Consommation intérieure brute totale           |
|   |       |       |       |       |   |       |       |       |       | Electricité d'origine renouvelable             |



Europäische Kommission  
European Commission  
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**Energy: Yearly statistics 1999**  
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Das Jahrbuch *Energiestatistik* enthält in einem Band eine beträchtliche Anzahl statistischer Informationen über die Energiewirtschaft der Europäischen Union und ihrer Mitgliedstaaten, hauptsächlich für das letzte Jahr, für das Material vorliegt.

Das erste Kapitel des Jahrbuchs gibt einen Überblick über die charakteristischen Angaben der Energiewirtschaft während der letzten Jahre.

Das zweite Kapitel liefert einen Gesamtüberblick über die Entwicklungstendenzen der Hauptaggregate aus den Energieversorgungsbilanzen der Europäischen Union und der einzelnen Mitgliedstaaten. Diese Reihen, ausgedrückt in Tonnen Rohöleinheit, erstrecken sich über mehrere Jahre.

Das dritte Kapitel enthält ältere Reihen über die einzelnen Energieträger für die Berechnung der wichtigsten die Strukturen der Energiewirtschaft kennzeichnenden Gesamtgrößen.

The *Energy statistics yearbook* groups in a single publication an extensive volume of statistical information relating to the energy economy of the European Union and the Member States, particularly for the most recent year available.

The first chapter covers the characteristic data of energy economics in recent years.

The second chapter gives an overall view of the trends for the principal aggregates, taken from the 'energy supplied' balance-sheets of the European Union in tonnes of oil equivalent.

The third chapter gives historical series for each energy source for the principal aggregates characterizing the structure of energy economics.

L'annuaire *Statistiques de l'énergie* réunit en une seule publication une masse importante d'informations statistiques sur l'économie de l'énergie de l'Union européenne et des Etats membres, principalement pour la dernière année disponible.

Le premier chapitre donne un aperçu des données caractéristiques de l'économie énergétique au cours des dernières années.

Le deuxième chapitre fournit une vue générale des tendances affectant les variations des principaux agrégats des bilans "Énergie finale" pour l'Union européenne et pour chacun des Etats membres. Ces séries couvrent plusieurs années et sont présentées en tonnes-équivalent pétrole.

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