

# Unavailability of nuclear power stations, 1995-1999

Jean-Marie LEFEBVRE

Statistics  
in focus

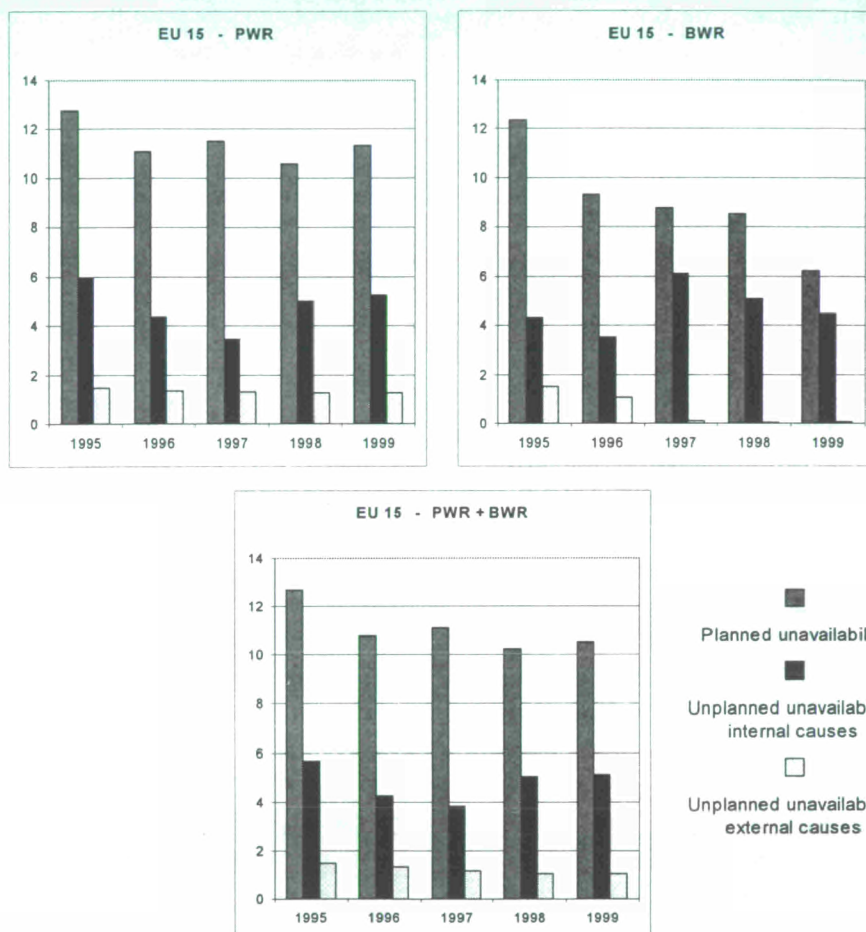
ENVIRONMENT AND  
ENERGY

THEME 8 – 14/2000

ENERGY

## CONTENTS

Unavailability (%) of nuclear power stations (PWR, BWR) in the European Union.



Average unavailability (1) factors in the European Union's PWR and BWR power stations (2) have been fairly stable over the past few years.

	Number of power stations	Installed capacity, MW	Year	Planned unavailability (%)	Unplanned unavailability, internal causes (%)	Unplanned unavailability, external causes (%)	Total unavailability (%)
PWR	88	94 484	1995	12.76	5.93	1.46	20.15
	88	94 484	1996	11.11	4.36	1.36	16.83
	87	94 426	1997	11.53	3.45	1.33	16.31
	87	94 426	1998	10.59	4.99	1.26	16.84
	87	94 426	1999	11.35	5.24	1.25	17.84
BWR	17	16 221	1995	12.38	4.33	1.50	18.21
	17	16 221	1996	9.32	3.54	1.06	13.92
	14	13 009	1997	8.76	6.11	0.13	15.00
	17	16 221	1998	8.52	5.08	0.02	13.62
	17	16 221	1999	6.22	4.46	0.07	10.75
EU-15 total	105	110 705	1995	12.70	5.67	1.47	19.84
	105	110 705	1996	10.82	4.23	1.31	16.36
	101	107 435	1997	11.14	3.82	1.16	16.12
	104	110 647	1998	10.25	5.01	1.06	16.32
	104	110 647	1999	10.51	5.11	1.06	16.68

(1) Unavailability is, in a certain period, the ratio of the mean unavailable capacity to the maximum capacity.

(2) PWR: Pressurized Water Reactor, BWR: Boiling Water Reactor.



Manuscript completed on: 20-07-2000  
ISSN 1562-3106  
Catalogue number: KS-NQ-00-014-EN-C  
Price in Luxembourg per single copy  
(excl. VAT): EUR 6

© European Communities, 2000

# Further information:

## ➤ Reference publications

Title Operation of nuclear power stations  
 Catalogue No KS-29-00-545-3A-C Price EUR 22

## ➤ Databases

New Cronos, Theme 8, Domain Sirene

To obtain information or to order publications, databases and special sets of data, please contact the Data Shop network:

BELGIQUE/BELGIË	DANMARK	DEUTSCHLAND	ESPAÑA	FRANCE	ITALIA - Roma
<b>Eurostat Data Shop</b> Bruxelles/Brussel Planistat België 124 Rue du Commerce Handelsstraat 124 B-1000 BRUXELLES / BRUSSEL Tel. (32-2) 234 67 50 Fax (32-2) 234 67 51 E-Mail: <a href="mailto:datashop@planstat.be">datashop@planstat.be</a>	<b>DANMARKS STATISTIK</b> Bibliotek og Information Eurostat Data Shop Sejrøgade 11 DK-2100 KØBENHAVN Ø Tel. (45-39) 17 30 30 Fax (45-39) 17 30 03 E-Mail: <a href="mailto:bit@dst.dk">bit@dst.dk</a>	<b>STATISTISCHES BUNDESAMT</b> Eurostat Data Shop Berlin Otto-Braun-Straße 70-72 D-10178 BERLIN Tel. (49-30) 23 24 64 27/28 Fax (49-30) 23 24 64 30 E-Mail: <a href="mailto:datashop@statistik-bund.de">datashop@statistik-bund.de</a>	<b>INE Eurostat Data Shop</b> Paseo de la Castellana, 183 Oficina 009 Entrada por Estébanez Calderón E-28046 MADRID Tel. (34-91) 583 91 67 Fax (34-91) 579 71 20 E-Mail: <a href="mailto:datashop.eurostat@ine.es">datashop.eurostat@ine.es</a>	<b>INSEE Info Service</b> Eurostat Data Shop 195, rue de Bercy Tour Gamma A F-75582 PARIS CEDEX 12 Tel. (33-1) 53 17 88 44 Fax (33-1) 53 17 88 22 E-Mail: <a href="mailto:datashop@insee.fr">datashop@insee.fr</a>	<b>ISTAT</b> Centro di Informazione Statistica Sede di Roma, Eurostat Data Shop Via Cesare Balbo, 11a I-00184 ROMA Tel. (39-06) 46 73 31 02/06 Fax (39-06) 46 73 31 01/07 E-Mail: <a href="mailto:dipdrt@istat.it">dipdrt@istat.it</a>
ITALIA - Milano	LUXEMBOURG	NEDERLAND	NORGE	PORTUGAL	SCHWEIZ/SUISSE/SVIZZERA
<b>ISTAT</b> Ufficio Regionale per la Lombardia Eurostat Data Shop Via Fieno 3 I-20123 MILANO Tel. (39-02) 8061 32460 Fax (39-02) 8061 32304 E-mail: <a href="mailto:mleuro@tin.it">mleuro@tin.it</a>	<b>Eurostat Data Shop Luxembourg</b> BP 453 L-2014 LUXEMBOURG 4, rue A. Weicker L-2721 LUXEMBOURG Tel. (352) 43 35 22 51 Fax (352) 43 35 22 221 E-Mail: <a href="mailto:dslux@eurostat.datashop.lu">dslux@eurostat.datashop.lu</a>	<b>STATISTICS NETHERLANDS</b> Eurostat Data Shop-Voorburg po box 4000 2270 JM VOORBURG Nederland Tel. (31-70) 337 49 00 Fax (31-70) 337 59 84 E-Mail: <a href="mailto:datashop@cbs.nl">datashop@cbs.nl</a>	<b>Statistics Norway</b> Library and Information Centre Eurostat Data Shop Kongens gate 6 P. b. 8131, dep. N-0033 OSLO Tel. (47-22) 86 46 43 Fax (47-22) 86 45 04 E-Mail: <a href="mailto:datashop@ssb.no">datashop@ssb.no</a>	<b>Eurostat Data Shop Lisboa</b> INE/Serviço de Difusão Av. António José de Almeida, 2 P-1000-043 LISBOA Tel. (351-21) 842 61 00 Fax (351-21) 842 63 64 E-Mail: <a href="mailto:data.shop@ine.pt">data.shop@ine.pt</a>	<b>Statistisches Amt des Kantons</b> Zürich, Eurostat Data Shop Bleicherweg 5 CH-8090 Zürich Tel. (41-1) 225 12 12 Fax (41-1) 225 12 99 E-Mail: <a href="mailto:datashop@zh.ch">datashop@zh.ch</a> Internetadresse: <a href="http://www.zh.ch/statistik">http://www.zh.ch/statistik</a>
SUOMI/FINLAND	SVERIGE	UNITED KINGDOM	UNITED KINGDOM	UNITED STATES OF AMERICA	
<b>Eurostat Data Shop Helsinki</b> Tilastokirjasto Postiosoite: PL 2B Käyntiosoite: Työpajakatu 13 B, 2 krs FIN-00022 Tilastokeskus Tel. (358-9) 17 34 22 21 Fax (358-9) 17 34 22 79 S-post: <a href="mailto:datashop.tilastokeskus@tilastokeskus.fi">datashop.tilastokeskus@tilastokeskus.fi</a> Internetadresse: <a href="http://www.tilastokeskus.fi/til/tdatashop.html">http://www.tilastokeskus.fi/til/tdatashop.html</a>	<b>STATISTICS SWEDEN</b> Information Service Eurostat Data Shop Karlavägen 100 - Box 24 300 S-104 51 STOCKHOLM Tel. (46-8) 50 69 48 01 Fax (46-8) 50 69 48 99 E-Mail: <a href="mailto:infoservice@scb.se">infoservice@scb.se</a> URL: <a href="http://www.scb.se/info/datashop/eurostat.asp">http://www.scb.se/info/datashop/eurostat.asp</a>	<b>Eurostat Data Shop</b> Enquiries & advice and publications Office for National Statistics Customers & Electronic Services Unit 1 Drummond Gate - B1/05 UK-LONDON SW1V 2QQ Tel. (44-207) 533 56 76 Fax (44-1633) 812 762 E-Mail: <a href="mailto:eurostat.datashop@ons.gov.uk">eurostat.datashop@ons.gov.uk</a>	<b>Eurostat Data Shop</b> Electronic Data Extractions, Enquiries & advice - R.CADE Unit 1L Mountjoy Research Centre University of Durham UK - DURHAM DH1 3SW Tel: (44-191) 374 7350 Fax: (44-191) 384 4971 E-Mail: <a href="mailto:r.cade@dur.ac.uk">r.cade@dur.ac.uk</a> URL: <a href="http://www.rcade.dur.ac.uk">http://www.rcade.dur.ac.uk</a>	<b>HAVER ANALYTICS</b> Eurostat Data Shop 60 East 42nd Street Suite 3310 USA-NEW YORK, NY 10165 Tel. (1-212) 986 93 00 Fax (1-212) 986 69 81 E-Mail: <a href="mailto:eurodata@haver.com">eurodata@haver.com</a>	

Media Support Eurostat (for professional journalists only).

Bech Building Office A3/48 • L-2920 Luxembourg • Tel. (352) 4301 33408 • Fax (352) 4301 32649 • e-mail: [eurostat-mediasupport@cec.eu.int](mailto:eurostat-mediasupport@cec.eu.int)

## For information on methodology

Jean-Marie Lefebvre, Eurostat/F4, L-2920 Luxembourg, Tel. (352) 4301 32040, Fax (352) 4301 32839, E-mail:

ORIGINAL: French

Please visit our web site at [www.europa.eu.int/comm/eurostat/](http://www.europa.eu.int/comm/eurostat/) for further information!

A list of worldwide sales outlets is available at the Office for Official Publications of the European Communities.

2 rue Mercier - L-2985 Luxembourg  
 Tel. (352) 2929 42118 Fax (352) 2929 42709  
 Internet Address <http://eur-op.eu.int/fr/general/s-ad.htm>  
 e-mail: [info.info@cec.eu.int](mailto:info.info@cec.eu.int)

BELGIQUE/BELGIË - DANMARK - DEUTSCHLAND - GREECE/ELLADA - ESPAÑA - FRANCE - IRELAND - ITALIA - LUXEMBOURG - NEDERLAND - ÖSTERREICH  
 PORTUGAL - SUOMI/FINLAND - SVERIGE - UNITED KINGDOM - ISLAND - NORGE - SCHWEIZ/SUISSE/SVIZZERA - BALGARIJA - CESKÁ REPUBLIKA - CYPRUS  
 EESTI - HRVATSKA - MAGYARORSZÁG - MALTA - POLSKA - ROMÂNIA - RUSSIA - SLOVAKIA - SLOVENIA - TÜRKIYE - AUSTRALIA - CANADA - EGYPT - INDIA  
 ISRAËL - JAPAN - MALAYSIA - PHILIPPINES - SOUTH KOREA - THAILAND - UNITED STATES OF AMERICA

## Order form

I would like to subscribe to Statistics in focus (from 1.1.2000 to 31.12.2000):  
 (for the Data Shop and sales office addresses see above)

**Formula 1:** All 9 themes (approximately 140 issues)

- Paper: EUR 360
- PDF: EUR 264
- Paper + PDF: EUR 432

Language required:  DE  EN  FR

**Formula 2:** One or more of the following seven themes:

- Theme 1 'General statistics'  
 Paper: EUR 42  PDF: EUR 30  Combined: EUR 54
  - Theme 2 'Economy and finance'
  - Theme 3 'Population and social conditions'
  - Theme 4 'Industry, trade and services'
  - Theme 5 'Agriculture and fisheries'
  - Theme 6 'External trade'
  - Theme 8 'Environment and energy'  
 Paper: EUR 84  PDF: EUR 60  Combined: EUR 114
- Language required:  DE  EN  FR

Please send me a free copy of 'Eurostat Mini-Guide' (catalogue containing a selection of Eurostat products and services)  
 Language required:  DE  EN  FR

I would like a free subscription to 'Statistical References', the information letter on Eurostat products and services  
 Language required:  DE  EN  FR

Mr  Mrs  Ms

(Please use block capitals)

Surname: \_\_\_\_\_ Forename: \_\_\_\_\_

Company: \_\_\_\_\_ Department: \_\_\_\_\_

Function: \_\_\_\_\_

Address: \_\_\_\_\_

Post code: \_\_\_\_\_ Town: \_\_\_\_\_

Country: \_\_\_\_\_

Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Payment on receipt of invoice, preferably by:**

- Bank transfer
- Visa  Eurocard

Card No: \_\_\_\_\_ Expires on: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Please confirm your intra-Community VAT number:**

If no number is entered, VAT will be automatically applied. Subsequent reimbursement will not be possible.