

# COMMISSION OF THE EUROPEAN COMMUNITIES

COM(75) 676 final.

Brussels, 19 December 1975

Modification of the annex to the document  
"Proposal for a Council decision on the grant  
of measures of support for Community projects  
in the hydrocarbons sector"

COM(75) 676 final.









**APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION No. 2054/72**

**AREA OF TECHNOLOGICAL DEVELOPMENT: PLATFORMS, JACKING AND PILING (Contd.)**

No.	Name of the project and responsible services	Duration (years)	Investment or expenses envisaged during the period 1975-1977 in M.C.	ACCEPTABILITY		CAPACITIES OF PHASE RESERVABLE		ESSENTIAL MEASURE :				IMPORTANCE FOR THE COMPANY :				APPRECIATION OF THE TECHNICAL RISKS			APPRECIATION OF THE SITUATION		SCOPE OF IMPLEMENTATION in relation to the state of existing technology :				ACTUALITY OF CAPITAL INVESTMENT PROJECTIONS :		UTILIZATION OF HUMAN RESOURCES		OTHER OBSERVATIONS	CONCLUSIONS							
				Technical	Economic	Financial	Technical	Delay in the execution of the work if support is not granted	Additional production	Acceleration of production	Lithographic	Great	Average	Small	Technical equipment and/or existing technology	Economic	Number and/or level of possible applications	Number of projects to be implemented by the state	Number of projects to be implemented by the company	Number of projects to be implemented by other existing technology	Number of projects to be implemented by other existing technology	Suitable	Not Suitable	Suitable	Not Suitable												
																										1980 at V. g. in t.o.p.	1985 at V. g. in t.o.p.	1990 at V. g. in t.o.p.			1995 at V. g. in t.o.p.	1980 at V. g. in t.o.p.	1985 at V. g. in t.o.p.	1990 at V. g. in t.o.p.	1995 at V. g. in t.o.p.	1980 at V. g. in t.o.p.	1985 at V. g. in t.o.p.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34				
01.13	Floating platform for the exploitation of oil and gas fields in deep waters <b>TECHNIPAC</b>	2	2,416,000	Yes	Yes	-	-	-	-	-	-	100,000 M3	-	-	-	-	Yes, for deeper waters	-	-	-	10	25-30	-	-	-	-	-	-	-	-	-	Other TLP projects (1)	-	-	Would benefit by support from oil company or contractor Proposition: support to ABE	Report on developments with additional utilization of produced gas and oil (TLP)(1). Proposition: support to ABE	
01.14	Study and development of the design, construction and installation of fixed offshore platforms <b>SP. MASING CO</b>	3	6,530,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	Yes	-	-	-	number	-	-	-	-	-	-	-	-	-	-	-	-	Limited to collection of fundamental data Proposition: not to be supported	Falls outside scope of reference established		
01.20	Intermediate and deep sea production platform <b>VACOR LTD</b>	7	6,623,000 (2)	Yes	Yes	-	-	-	-	-	-	100,000 M3	-	-	-	-	Yes, for deeper waters	-	-	-	5	25-30	-	-	-	-	-	-	-	-	-	-	Other TLP projects	-	-	Crude processing below sea level Proposition: to be supported to ABE	Systematic approach to problems of design and development of economic structures for deep water Proposition: includes manufacture of major structures (TLP) (1) Proposition: to be supported to ABE
01.21	Research and development project for production of oil and gas from deep waters <b>SEPRON HOLDING LTD</b>	3	6,672,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	Yes, for deeper waters	-	-	-	-	70-75	-	-	-	-	-	-	-	-	-	-	-	-	Would benefit by support from oil company Proposition: support to ABE	Flexible approach to development of production system for deep water fixed or TLP Proposition: support to ABE	
01.22	DI1 production platform <b>CALEDONIAN PLATFORMS LTD</b>	1	526,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	No	-	-	-	3	10	-	-	-	-	-	-	-	-	-	-	-	Manufacture of structure in shallow water Proposition: not to be supported	Another method of building fixed structures		
01.26	Proposal for North Sea production platform <b>DALE'S STRUCTURES LTD</b>	1	349,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5-8	-	-	-	-	-	-	-	-	-	-	-	-	Improved construction and launching system Proposition: not to be supported	Excess emphasis on construction of process, etc., without adequate proof and development of the structure feasibility Proposition: not to be supported	
01.25	Tension leg platform <b>BROW &amp; VOSS AB</b>	2	95,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	Yes, for deeper waters	-	-	-	1	10	-	-	-	-	-	-	-	-	-	-	-	-	Separate storage needed outside structure Proposition: delayed to 1978	Proposal to optimize TLP system	
01.24	GRS platform project <b>OPEN-SCOTT LITHIUM</b>	2	700,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0	-	-	-	-	-	-	-	-	-	-	-	-	Design based on a SEAL patent Proposition: not to be supported	Steel gravity structure using thrust jacks for elevating	
01.27	Small offshore production system <b>SP. MASING CO</b>	3	71,040,000	Yes	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	number	-	-	-	-	-	-	-	-	-	-	-	-	-	-	This proposal relates to the systematic development of a total production system extracting deeper waters, smaller fields and shallow depth fields (TLP) Proposition: support to ABE	Gravel based
01.28	Floating natural gas liquefaction plant <b>PRESMAB AB</b>	2	1,420,000	Yes	Yes	-	-	-	-	-	-	2-4 m <sup>3</sup>	7-12 m <sup>3</sup>	-	-	-	-	-	-	-	3-5	more than 10	-	-	-	-	-	-	-	-	-	-	-	-	-	High gas production economic in smaller fields Proposition: support to ABE	Yes - with Seaglider 120 and GRV system
01.29	Production of LNG and natural platform <b>SALFITTER AB</b>	2	1,435,000	Yes	Yes	-	-	-	-	-	-	2-4 m <sup>3</sup>	7-12 m <sup>3</sup>	-	-	-	-	-	-	-	3-5	more than 10	-	-	-	-	-	-	-	-	-	-	-	-	-	High gas production economic in smaller fields Proposition: support to ABE	Yes, with Presmab AB 01.28 and S.L.F. 119

(1) T.L.P.: tension leg platform  
(2) Victoria: reduction proposed by the Commission (only design costs for 1975, 1976 and 1977)

**APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION No. 2024/72**

**AREA OF TECHNOLOGICAL DEVELOPMENT :** Oil Platforms, MACHINES AND PIPES (cont'd)

No	Name of the project and responsible agency	Duration (years)	Investment or expenditure during the period 1975/1977 in \$C	ACCEPTABILITY :		CAPACITIES OF Firms RESPONSIBLE :		ESSENTIAL REQUIREMENTS :				IMPORTANCE FOR THE COMMUNITY :				APPRECIATION OF THE TECHNICAL RISKS :			APPRECIATION OF THE SITUATION :		STATE OF KNOWLEDGE in relation to the state of existing technology :				TECHNOLOGY OF PROJECTS :	APPROPRIATENESS OF YEARS FORWARDED :		OTHER OBSERVATIONS :	COMMENTS :						
				Technically	Economically	Technical	Economic	Delay in the execution of the work. If support is not granted		Additional production in 1980	Acceleration of production in 1980	Effectiveness of performance	Great	Average	Small	Insufficient equipment and/or existing technology	Number and/or kind of available installations	Present in the state of the art	Improvement by the state of the art	Can be left to the market	Rate of development	Suitable	Not suitable												
								Less than one year	More than one year															1980 oil/ gas		1980 oil/ gas	Less than five years			More than five years	in the Community	in the world	with other existing installations	with the state of the art	
03.02	Mobile platform for near-shore production based on the gas production of small oil fields <u>CELESTINE BARCOE &amp; WILSON</u>	3	2,800,000	Yes	Yes	Y	Y	-	-	-	-	20,000/20,000	-	-	-	-	-	-	-	-	-	5-10	10-15	-	-	-	-	-	-	Yes - with ECONOME	-	-	might make certain marginal fields commercial	Particularly applicable for low quality gas (i.e., High H <sub>2</sub> ) which could not make 12% or so return Proposition: support to AEE	
03.02	Heavy duty hoist <u>WED CARTER &amp; WILSON</u>	3	700,000	Yes	Yes	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	30-40	-	-	-	-	-	-	03.20 03.20 03.20	-	-	Proposition: not to be supported	Development of technology for design and support of heavy duty hoist of lower pressure	
03.10	A new pressure grouting process for bearing piles <u>SOLARINE</u>	1	1,000,000	Yes	Yes	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	30-40	-	-	-	-	-	-	03.20 03.20 03.20	-	-	Advantage for foundation work		Proposition: not to be supported
03.22	Underwater pile hammer (300 t) <u>TECHNOLOGIE</u>	3	700,000	Yes	Yes	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	30-40	-	-	-	-	-	-	03.20	-	-	First to state at this depth		Proposition: not to be supported
03.31	Offshore production system "Toby" project <u>FREEMAN FOW &amp; PARTNERS</u>	2	1,000,000	Yes	Yes	Y	Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	25-30	-	-	-	-	-	-	Other TOP projects	-	-	World wide venture which suffers from lack of support by an oil company or a process contractor	Not to be considered to benefit of top priority for platforms (TOP) Proposition: support to AEE	

APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER CONDITIONS OF UNCERTAINTY BY 2/16/77

REV. 1975

AREA OF TECHNOLOGICAL DEVELOPMENT : **RE: PRODUCTION**

No.	Name of the project and responsible parties	Duration (years)	Investment or expense (million units) during the period 1975/1977 to 1977/1979	ACCEPTABILITY : Does the project have a technological development aspect? Is the result of the project an improvement on the state of the art? Is it a significant step in the evolution of a technology? (20/77)	CAPACITIES OF THE INVESTOR		ESSENTIAL REASONS :					IMPORTANCE FOR THE COMMUNITY :					APPRECIATION OF THE ECONOMIC ASPECT			APPRECIATION OF THE SITUATION			EFFECT OF INVESTMENT in relation to the state of existing technology :				LIST OF USES IN WHICH THE INVESTMENT IS APPLICABLE :		EFFECTS ON THE ECONOMY		Overall evaluation	CONCLUSION			
					stage	technical	Delay in the execution of the work if support is not granted	Additional production	Acceleration of production	Reduction of production	Small	Medium	Large	Small	Medium	Large	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations	Number and/or part of available installations			Number and/or part of available installations	Number and/or part of available installations	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		
D.7	Liberation of a reservoir owned by the fields element control <u>FRANCE</u>	2	25,000	700	700																													or not significant in economic order	Optimization only in risks, in hardware, usual industrial sector Prerequisite: not to be supported
D.8	Production of water in Arctic zone <u>GREEN</u>	2/7	5,707,000	300	300							1 field	2-3 fields																					Very small in both cost and type development	Partial support in providing future development of Arctic fields Prerequisite: support to 20%
D.10	Separation process <u>OF FINANCIAL CO</u>	5	1,100,000	300	300																														Should reduce size and cost of offshore and also small fields economic Prerequisite: support to 50%
D.10	Continental separation of rock oil water <u>GREEN</u>	2	503,000	300	300																														Small industrial development order. Es risks. Prerequisite: not to be supported
D.11	Adaptation of drilling procedures for diverse systems <u>GREEN</u>	2	300,000	300	300																														Already accomplished So state - normal industrial sector Prerequisite: not to be supported
D.15	Production project 100-200 <u>GREEN</u>	5	77,500,000	300	300									2 fields																					Prerequisite: delayed to 1980



APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION BY 2006/7																																	
AREA OF TECHNOLOGICAL DEVELOPMENT: <u>SEA SECONDARY RECOVERY INCLUDING OIL SPILLS</u>																																	
No	Name of the project and responsible person	Duration (years)	Investment or estimated cost (1975/1977 US\$ million)	ACCEPTABILITY: Does the project have a technical feasibility aspect? (Yes/No)	CAPACITIES OF THESE RESOURCES: In the context of local person who is responsible for the project can it be carried out according to the provisions of Article 3 of Regulation 2006/7?	CAPACITIES OF THESE RESOURCES:		ESSENTIAL REQUIRE:					IMPORTANCE FOR THE COMMUNITY:			APPRECIATION OF THE TECHNICAL RISKS:			APPRECIATION OF THE SITUATION:		SCOPE OF INNOVATION in relation to the state of existing technology:					ACTIVITY OF WORKING WITH SIMILAR PROJECTS?	SIGNIFICANCE OF RESULTS ENVIAGED:		OTHER OBSERVATIONS:	CONCLUSIONS:			
						Financial	Technical	Delay in the execution of the work if support is not granted:					Additional production to:	Acceleration of production:	Elimination of pollution:	Great	Average	Small	Technical	Economic	Development of new or improved technology	Improvement of existing technology	Development of new technology	Development of existing technology	Development of new technology		Development of existing technology	Development of new technology			Development of existing technology	Available	Not Available
						Less than one year	One to five years	More than five years	Project abandoned	1980 oil/gas in t.o.p.	1985 oil/gas in t.o.p.	Less than five years	More than five years	Less than five years	More than five years	Less than five years	More than five years	Less than five years	More than five years	Less than five years	More than five years	Less than five years	More than five years	Less than five years	More than five years		Less than five years	More than five years			Less than five years	More than five years	Less than five years
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	
05.01	Increased crude oil production and treatment <u>BP TRINIDAD CO</u>	2 (5)	1,400,000	yes	yes	"	"	"	"	"	"	5,10 <sup>6</sup> (o.c.)	15,10 <sup>6</sup> (o.c.)	"	"	"	"	"	"	"	"	20	general	"	"	"	"	"	AGP 7% SHELL 7% GULF 7% GULF 7% GULF 7%	"	"	Increased recovery with comparatively low capital investment	General application to new on- and offshore activities. Preposition: support to AEC
05.02	Pilot project of atomization and polymer floods in the Oxtunward reservoir <u>SEVCO</u>	3	2,500,000	yes	yes	"	"	"	"	"	"	4,10 <sup>6</sup>	4,10 <sup>6</sup>	"	"	"	"	"	"	"	"	20	general	"	"	"	"	"	AGP 7% SHELL 7% GULF 7% GULF 7% GULF 7%	"	"	General application to new on- and offshore activities. Preposition: support to AEC	General application to new on- and offshore activities. Preposition: support to AEC
05.03	Development of heavy oil production from tar sands in Federal Green Reservoir <u>HWYERHILL</u>	3	1,300,000	yes	yes	"	"	"	"	"	"	85,10 <sup>6</sup>	2,10 <sup>6</sup>	"	"	"	"	"	"	"	"	20	general	"	"	"	"	"	AGP 7% SHELL 7% GULF 7% GULF 7% GULF 7%	"	"	Field could be produced without the development program. Total alternate recovery could achieve 7,000,000 bbl.	Field could be produced without the development program. Total alternate recovery could achieve 7,000,000 bbl. Preposition: support to AEC
05.04	Hydrocarbon recovery from shale deposits <u>SHELL INTERNATIONAL</u>	2	1,000,000	yes	yes	"	"	"	"	"	"	Increasing recovery factor from 7 to 22	"	"	"	"	"	"	"	"	"	20	general	"	"	"	"	"	AGP 7% SHELL 7% GULF 7% GULF 7% GULF 7%	"	"	Success with this project could, if results applied, provide an additional 80,000 t. of crude oil	Success with this project could, if results applied, provide an additional 80,000 t. of crude oil. Preposition: support to AEC
05.05	Exploitation of oil shale deposits <u>SEVCO</u>	1	350,000 (1)	partial	yes	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	general	"	"	"	"	"	"	"	Health of knowledge available in Germany, USA and elsewhere	The technical content of this project requires 200,000 man only Preposition: support to AEC	The technical content of this project requires 200,000 man only. Preposition: support to AEC	

(1) Reduced amount proposed by the Contractor (\$10,000 - \$87,000)

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APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION No 354/73																																						
AREA OF TECHNOLOGICAL DEVELOPMENT: 02: ENVIRONMENTAL INFLUENCES ON OIL EQUIPMENT OFFSHORE																																						
07: SERVICE SHIPS AND SUBMERGIBLES																																						
No	Name of the project and research objectives	Duration (years)	Investment or expenses estimated during the period 1975/1977	ACCEPTABILITY :		CAPACITIES OF THIS RESEARCH :		ESSENTIAL MEASURE :			IMPACTS ON THE COMMUNITY :						APPRECIATION OF THE TECHNICAL RISKS :			APPRECIATION OF THE SITUATION :		STATE OF TECHNOLOGICAL DEVELOPMENT relative to the state of existing technology :					LEVEL OF COMMERCIAL OR INDUSTRIAL PROSPECTS :		RESEARCH OF MAIN INTERESTS :		OTHER OBSERVATIONS	COMMENTS						
				Economic	Technical	Financial	Social	Delay to the execution of the work if support is not granted	Additional construction	Acceleration of production	Elimination of bottlenecks	Great	Average	Small	Industrial equipment and/or installation	Number and/or size of installations	Development of the Community	Development of the world	Present	Future	Medium term	Long term	Rate of development	Ratio between same envisaged and foreseeable results		Suitable	Not suitable											
																								Preparation and study phase				Project objectives		1985-1990			1990-2000		1985-1990		1990-2000	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
05.05	Measure of water movements and their effect on offshore structures <u>ONSET</u>	2	752,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	05.05 to 07.00 08.12	x	-	Partly an example of progress, system applicable to all platforms and barges	The setting up of this service increases the investment of safety factors for the construction of the structures should fall entirely on the industry, taking into account the small plans and the size of the marginal market. Technological development anticipated in small. Applicable to production activities. Prerequisite: not to be supported
05.10	Optical system for well measurements from aerial photographs <u>SETEB</u>	2	700,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	06.08 06.08 07.07	-	-	Applicable to activity planning for all platforms, barges, heavy machines with navigation difficulties and the study of sites	Because the system provides a view of the structural energy of the wells, it permits the calculation of activity of submerged machines, fixed or mobile and consequently the realization of large economies. It can be used to select the most favorable sites for placing fixed structures. Applicable to production and other barges. Prerequisite: not to be supported
05.01	Use of ESP techniques for accurate forecasting <u>SETER</u>	1	160,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	05.01 to 07.00 03.12	-	-	Construction of a semi-automatic model for the improvement of meteorological forecasts	The project envisages the setting up of a method of calculation using existing material. There is no technological development and the risks are small. Not directly covered with basic activities. No technological development. Prerequisite: not to be supported
05.03	Soil maps to predict offshore installations <u>SETEB</u>	1	270,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	offshore platforms and barges	-	-	-	-	-	-	-	-	-	-	-	06.04 to 07.00 03.12	x	-	Applicable to all fixed offshore structures. The subject is an initial study and follows up to the stage before one starts	The proposed system could increase the ground activity time on platforms and barges. Directly applicable to production and other barges activities. Prerequisite: support to SET
07.01	Service package unit for offshore well installation <u>PREVISA 86</u>	2	3,500,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	offshore platforms and barges	-	-	-	-	-	-	-	-	-	-	07.00 08.06 08.06 08.06	-	-	Construction of a boat necessary for studying the characteristics of offshore is actually done with the aid of standard fitted out units. The building of a special boat would enable greater depths to be reached, to increase accuracy of measurement and reduce operation costs. Assistance is a major activity. Prerequisite: support to SET		
07.02	Soil investigation North Sea <u>PREVISA 88</u>	2	270,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	All platforms and barges	-	-	-	-	-	-	-	-	-	-	07.01 08.06 08.06 08.06	x	-	Perfecting techniques and equipment	This project envisages developing materials to equip the ship which PREVISA 86 will build and increase its possibilities. The two proposals are complementary and consequent to the previous conclusions applied to PREVISA 86's project. Assistance is a major activity. Prerequisite: support to SET	
07.03	Design and construction of a submarine vehicle for work and inspection operations (Telema) <u>TELEMA</u>	3	7,807,000	small	yes	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	7.05 08.03 to 07.00 08.06 08.06	x	-	Feasibility study completed	Existing submarine vehicles are always named and fitted to work from 100 to 200 m. The 400 TELEMA (telecommanded vehicle, non lifting hull), was conceived for recovery operations and runs on the sea bottom. A telecab must give the same services on a narrow submarine but 1.5 depths up to 1000 m and of about 15000 hours duration. Applicable to major activities of great technology and concerning the technological development of the next generation of machinery. Prerequisite: support to SET		



APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION No. 358/72

AREA OF TECHNOLOGICAL DEVELOPMENT:		DR: PIPE AND CABLE LAYING	TR: TRANSPORT BY PIPELINE AND MARINE																																	
No	Name of the project and responsible person	Duration (years)	Investment or amount of resources available during the period 1975/1977 in US\$	ACCEPTABILITY		CAPACITIES OF MAN RESOURCES		ESSENTIAL REQUIRE:			IMPORTANCE FOR THE COMMUNITY			APPRECIATION OF THE TECHNICAL RISKS			APPRECIATION OF THE SITUATION			STATE OF IMPLEMENTATION in relation to the state of existing technology			COMMITMENT OF CAPITAL IN THE CAPITAL PROJECTS	JUSTIFICATION OF YEARS EMPLOYED		OTHER OBSERVATIONS	CONCLUDING									
				Technical	Economic	Human	Technical	Delay in the execution of the work if support is not granted	Additional production	Acceleration of production	Elimination of bottlenecks	Small	Medium	Small	Technical equipment and/or existing technology	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications		Number and/or nature of possible applications	Number and/or nature of possible applications			Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications	Number and/or nature of possible applications				
				Less than one year	Between one and five years	More than five years	Project abandoned	1975-1976	1977-1978	1979-1980	1981-1982	1983-1984	1985-1986	1987-1988	1989-1990	1991-1992	1993-1994	1995-1996	1997-1998	1999-2000	2001-2002	2003-2004		2005-2006	2007-2008			2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2019-2020	2021-2022	2023-2024	2025-2026
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
09.01	Construction of field tests and activation of working combination of remote controlled submarine vehicle "SIB 100"  <u>TECHNOC</u>	4	10,543,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	-	no	no	-	-	-	-	-	10,000 to 10,000	-	+	Construction of an experimental vehicle has already reached the "pre test" stage. The object of the proposal is to complete the trials, make the equipment and test a prototype.  Proposition: not to be supported.	Specific materials for laying pipe and cables at 150-200 m depth. The risks of building an experimental vehicle have already been taken by the contractor. The length of the work program does not correspond to the objectives. Concerns pipe and cable laying.  Proposition: not to be supported.			
09.04	Pipe laying in deep waters  <u>SLIP &amp; PIPE 80</u>	1	102,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,000 to 100,000	-	-	The project foresees completing by theory and making a study to enable the engineering stage to be reached and then the building of a prototype.  Proposition: not to be supported.	The construction of a prototype pipe laying large has already been discussed between contractors and users, both for the engineering and for the construction. Taking account of the value of the investment and the interest which there appears to be, the proposer must take all the risks, concerning piloting.  Proposition: not to be supported.			
09.06	New technology for pipe laying of sea  <u>SEAFLEX</u>	2	1,740,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	to all pipe laying operations	-	-	-	-	-	-	-	50,000 to 100,000	-	-	The invention lies in the silencers in which the suspension will be done on the pipes.  Proposition: support to 25%	The two types of silencers studied should entail a reduction in laying time and operation in sea depth of 50 m. Important significance in pipe laying techniques.  Proposition: support to 25%			
09.07	Pipe-laying transport machine  <u>CHIEFHO LTD</u>	3	1,000,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,000 to 100,000	-	-	There are machines of this type effective at shallow depth for maintenance of pipes. This project foresees a machine for great depths.  Proposition: not to be supported.	The accessories of this machine have been developed already by the proposer. There remains the completion of the machine itself. The work program seems disproportionate to the objectives. Partial technique for pipe laying.  Proposition: not to be supported.				
10.04	Laying a 12" flexible conduit 15 to 20 km in 500 m of water  <u>OFFSEEP 1)</u>	3	1,340,000 (1)	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	to all production with oil reserves exploration operations	-	-	-	-	-	-	-	10,000	-	-	Applicable to all submarine transport over short distances (from 100 m to 500 m). The cost of pipes is too high to consider using over long distances. The Community contribution is limited to the first year (1,200,000 u.s.d.). Applicable to transport operations.  Proposition: support to 25%	The technique has the advantage of pipe laying both cheaply and rapidly at low cost. The flexible pipes may be recovered and reused on another site. Regular work is easier than in rigid pipes. The cost of pipes is too high to consider using over long distances. The Community contribution is limited to the first year (1,200,000 u.s.d.). Applicable to transport operations.  Proposition: support to 25%			
10.05	High pressure flexible hoses for transport and exploitation of underwater hydrocarbons  <u>STANDARD TELEPHONES &amp; CABLES LTD</u>	3	1,051,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	Generalized for FPSO & FPS systems	-	-	-	-	-	-	-	Cooperation with OFFSEEP program	-	-	Could be applied if successful over under severe North Sea conditions.  Proposition: support to 25%	Development in this new field desirable in order to solve handling and loading problems of oil and gas offshore, even for large distances.  Proposition: support to 25%			
10.06	USG testing one  <u>DAVID BROWN VESPER LTD</u>	3	2,400,000	yes	yes	no	no	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	The success of this project will provide the vital link in the offshore exploitation of gas. With no backing system there is no point in the North Sea gas from any small fields, especially unworked gas in northern North Sea will have to be flared. The project is therefore to the forefront among those that will actually increase available energy supplies to the Community.  Proposition: support to 25%	The success of this project will provide the vital link in the offshore exploitation of gas. With no backing system there is no point in the North Sea gas from any small fields, especially unworked gas in northern North Sea will have to be flared. The project is therefore to the forefront among those that will actually increase available energy supplies to the Community.  Proposition: support to 25%			

(1) Reduced amount proposed by the Contractor (10,455,000 - 10,215,000)





APPRECIATION OF TECHNOLOGICAL DEVELOPMENT PROJECTS UNDER THE CONDITIONS OF REGULATION No. 206/72

No.	Name of the project and responsible person	Duration (years)	Investment or expense involved during the period 1975/1977 in EC	ACCEPTABILITY :		CAPACITIES OF THE RESPONDENT :		ESSENTIAL REASONS :					IMPORTANCE FOR THE COMMUNITY :			APPRECIATION OF THE TECHNICAL RISKS :			APPRECIATION OF THE SITUATION :		SCOPE OF INNOVATION in relation to the state of existing technology :					FEASIBILITY OF COMPARISON (i.e. WITH SIMILAR PROJECTS) :		JUSTIFICATION OF MEANS EMPLOYED :		OTHER REQUISITES :	REMARKS :			
				Financial	Technical	Financial	Technical	Delay to the execution of the work to support to not granted	Less than one year	Between one and five years	More than five years	Project abandoned	Less than one year	Between one and five years	More than five years	Project abandoned	Great	Intermediate	Small	Sufficient equipment and/or existing technologies	Medium and/or kind of possible innovations	Original work or innovation	Can be developed by someone else	Can be developed by someone else	Use of the State of the art	Use of the State of the art	Use of the State of the art	Use of the State of the art	Use of the State of the art			Use of the State of the art	Use of the State of the art	Use of the State of the art
15.01	Hydro-power production by overflow (operation of water)  <b>LEIGH ERSON CWP. SOCIETY</b>	2	126,000	no	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Feasibility study on calculation of profitability and adoption of process techniques  Project connected with oil or gas technology. Investigations about already other on farm or pilot projects. The essential generalization of the project depends upon the organization of the collection procedure and profit incentive. This project is more proper to the agricultural field.  Proposition: not to be supported
15.02	Technological assessment of North Sea development <b>TNO</b>	2	97,000	no	yes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Limited to collection of basic information  Project not reasonable  Proposition: not to be supported	

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