

OSPAR Report on Discharges, Spills and Emissions from Offshore Oil and Gas Installations in 2006



OSPAR Commission
2008

The Convention for the Protection of the Marine Environment of the North-East Atlantic (the “OSPAR Convention”) was opened for signature at the Ministerial Meeting of the former Oslo and Paris Commissions in Paris on 22 September 1992. The Convention entered into force on 25 March 1998. It has been ratified by Belgium, Denmark, Finland, France, Germany, Iceland, Ireland, Luxembourg, Netherlands, Norway, Portugal, Sweden, Switzerland and the United Kingdom and approved by the European Community and Spain.

La Convention pour la protection du milieu marin de l'Atlantique du Nord-Est, dite Convention OSPAR, a été ouverte à la signature à la réunion ministérielle des anciennes Commissions d'Oslo et de Paris, à Paris le 22 septembre 1992. La Convention est entrée en vigueur le 25 mars 1998. La Convention a été ratifiée par l'Allemagne, la Belgique, le Danemark, la Finlande, la France, l'Irlande, l'Islande, le Luxembourg, la Norvège, les Pays-Bas, le Portugal, le Royaume-Uni de Grande Bretagne et d'Irlande du Nord, la Suède et la Suisse et approuvée par la Communauté européenne et l'Espagne.

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Executive Summary

Regular reporting is required in order to review progress in implementing the OSPAR Offshore Industry Strategy and in implementing the OSPAR decisions and recommendations related to offshore oil and gas activities.

Since 1978, discharges and waste handling from offshore oil and gas installations have been addressed and regularly reported under the former Paris Convention (PARCOM) and under the OSPAR Convention. Since the beginning of the 1990s air emissions from these installations have been reported as well.

The data have been reported using the Data Collection Format for the Annual OSPAR Report on Discharges, Spills and Emissions from Offshore Oil and Gas Installations (reference number 2005-14).

Part A of the report compiles 2006 data on the number of installations with emissions and discharges, discharges contaminated with oil, the use and discharge of drilling fluids and cuttings, and chemicals used and discharged offshore. It also reports on accidental spills of oil and chemicals and emissions to air.

Part B shows the discharges and emissions over the past years (discharge data back to 1984, emissions data back to 1992) to show the trends in discharges and emissions and use of chemicals.

The annual report 2006 does not assess the findings. The offshore report to be published in 2009 will include data for 2007 as well as an assessment of both the 2006 and 2007 data and the trends.

Récapitulatif

Une notification régulière s'impose pour suivre la progression de la mise en œuvre de la stratégie OSPAR visant l'industrie de l'offshore, ainsi que l'application des décisions et des recommandations OSPAR qui visent les activités pétrolières et gazières en offshore.

Depuis 1978, les rejets et le traitement des déchets des installations pétrolières et gazières en offshore ont été abordés, et ont fait l'objet de rapports réguliers dans le contexte de l'ancienne Convention de Paris (PARCOM) et de la Convention OSPAR. Depuis le début des années 1990, les émissions atmosphériques de ces installations ont également été notifiées.

Les données ont été communiquées sur le formulaire de collecte des données, ceci aux fins du rapport annuel OSPAR sur les rejets, les épandages et les émissions des installations pétrolières et gazières (No Référence 2005-14).

Dans la partie A du rapport, sont collationnées les données de 2006 sur le nombre d'installations procédant à des émissions et à des rejets, à des rejets contaminés par des hydrocarbures, sur la consommation et les rejets de fluides de forage, de déblais de forage et de produits chimiques utilisés et rejetés en offshore. Y sont également indiqués les déversements accidentels d'hydrocarbures et de produits chimiques, ainsi que les émissions dans l'atmosphère.

Dans la partie B, sont indiqués les rejets et les émissions au cours des dernières années (les données des rejets depuis 1984, et les données des émissions depuis 1992) afin de mettre en évidence les tendances des rejets et des émissions ainsi que la consommation des produits chimiques.

Le rapport annuel 2006 ne porte aucun jugement sur les constatations. Le rapport sur l'industrie de l'offshore, devant être publié en 2009, comprendra les données relatives à 2007, ainsi qu'une évaluation des données et des tendances de 2006 et 2007.

1. Introduction

1.1 Programmes and measures

The Offshore Oil and Gas Industry Strategy (Offshore Strategy) sets the objective of preventing and eliminating pollution and taking the necessary measures to protect the maritime area against the adverse effects of offshore activities so as to safeguard human health and of conserving marine ecosystems and, when practicable, restoring marine areas which have been adversely affected.

As its timeframe, the Offshore Strategy further declares that the Commission will implement this Strategy progressively and, in so far as they apply, following on and consistent with the commitments made in the other OSPAR Strategies.

The Offshore Strategy provides that OSPAR will address the programmes and measures:

- a. needed to prevent, control and eliminate pollution under Annex III of the OSPAR Convention;
- b. to be adopted under Annex V of the OSPAR Convention following the identification of relevant human activities.

In doing so, the Offshore Strategy requires the Commission to collect information about threats to the marine environment from pollution or from adverse effects from offshore activities; establish priorities for taking action; and establish and periodically review environmental goals to achieve the Offshore Strategy's objectives.

As part of this process, the Commission should develop and keep under review programmes and measures to identify, prioritise, monitor and control the emissions, discharges and losses of substances which could reach the marine environment and which are likely to cause pollution. Regular reporting is therefore required in order to review progress towards the targets of the Offshore Strategy.

Since 1978, discharges and waste handling from offshore oil and gas installations have been addressed and regularly reported under the former Paris Convention and under the OSPAR Convention. Since the beginning of the 1990s air emissions from these installations have been reported as well. The following relevant measures¹ are applicable under the OSPAR Convention:

Discharges contaminated with oil

- PARCOM Recommendation of a 40 mg/l Emission Standard for Platforms, 1986;²
- Sampling and analysis procedure for the 40 mg/l target standard (reference number: 1997-16; currently under review);
- OSPAR Reference Method of Analysis for the Determination of the Dispersed Oil Content in Produced Water (reference number: 2005-15)³
- OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations;

Use and discharge of drilling fluids and cuttings

- OSPAR Decision 2000/3 on the Use of Organic-phase Drilling Fluids (OPF) and the Discharge of OPF-contaminated Cuttings;
- Guidelines for the Consideration of the Best Environmental Option for the Management of OPF-Contaminated Cuttings Residue (reference number: 2002-8);

¹ All measures referred to in this chapter can be downloaded from the OSPAR website www.ospar.org (under "Offshore Oil and Gas Industry").

² PARCOM Recommendation of a 40 mg/l Emission Standard for Platforms, 1986 was revoked (for produced water only) by OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations. However, this measure is still applicable in relation to ballast water, drainage water and displacement water from offshore installations.

³ Replaced agreement 1997-16 from 1 January 2007

Chemicals used and discharged offshore

- OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Reduction of the Discharge of Offshore Chemicals;
- OSPAR Recommendation 2000/4 on a Harmonised Pre-Screening Scheme for Offshore Chemicals;
- OSPAR Recommendation 2000/5 on a Harmonised Offshore Chemical Notification Format (HOCNF);

and a whole suite of Other Agreements concerning guidance on test methods and completing data sets, and lists of chemicals that will contribute to the implementation of these measures.

1.2 Annual reporting and biannual assessments

In 1978, Contracting Parties to the former Paris Convention initiated reporting on discharges and waste handling from offshore oil and gas installations. These data were submitted by Contracting Parties and compiled by the Secretariat and, following examination by the relevant subsidiary bodies, published by the Commission in the form of annual reports; at first as part of the Commission's general annual report, and from 1992 onwards in annual reports on discharges of oil in the Convention area. From 1999 onwards, the annual reports (starting with 1996 and 1997 data) also contain an assessment of discharges, spills and emissions including a description of the trends from the beginning/mid of the 1980s until the date of the report.

Over time, reporting requirements and formats for data collection were regularly reviewed and updated in the light of ongoing work under the Commission as regards offshore installations. With a view to harmonising the way in which data and information are being established and reported, the Programmes and Measures Committee of the OSPAR Commission adopted in 1995 a reporting format and procedures, which set out the requirements for data and information to be provided by Contracting Parties. This reporting format was revised by the Offshore Industry Committee in 2002 for preparing on a trial basis the publication of a more detailed annual report starting with the 2001 data. After evaluation of its first application, the current reporting format (reference number: 2005-14) was confirmed to be used for the submission of data and information for the Annual OSPAR Report on Discharges, Spills and Emissions from Offshore Installations.

This report presents the discharges, spills and emissions data from offshore installations for 2006 in Part A and cumulative data in Part B.

1.3 Assessments

The annual report 2006 does not assess the findings. The offshore report to be published in 2009 will include data for 2007 as well as an assessment of both the 2006 and 2007 data and the trends.

2. Results

Part A: Report relating to 2006 data

Part B: Cumulative Report

2.1 General information

The continental decimal system is used throughout this report (with a space as 1000 separator and a comma as decimal separator) with one decimal number after the comma.

NI means No Information available, i.e. unknown or missing data (data different from 0)

NA means Not Applicable, i.e. that the criteria is not relevant. For sums and totals, it is equivalent to 0.

2.2 Glossary

OP is the acronym for organic phase

Organic-phase drilling fluid (OPF) means an organic-phase drilling fluid, which is an emulsion of water and other additives in which the continuous phase is a water-immiscible organic fluid of animal, vegetable or mineral origin

Base fluid means the water immiscible fluid which forms the major part of the continuous phase of the OPS

Drilling fluid means base fluid together with those additional chemicals which constitute the drilling system

Oil-based fluids (OBF) means low aromatic and paraffinic oils and those mineral oil-based fluids that are neither synthetic fluids nor fluids of a class whose use is otherwise prohibited

Synthetic fluid means highly refined mineral oil-based fluids and fluids derived from vegetable and animal sources

Cuttings means solid material removed from drilled rock together with any solids and liquids derived from any adherent drilling fluids

Whole OPF means OPF not adhering to or mixed with cuttings

WBM is the acronym for water-based muds

Part A: Report relating to 2006 data

Part B: Cumulative Report

Part A: Report relating to 2006 data

Table 1: Number of installations with emissions and discharges covered by OSPAR measures ^A

Year: 2006

Country	Production ^B		Subsea ^E	Drilling ^F	Other ^G	Total
	Oil ^C	Gas ^D				
Denmark	12	0	1	5,4	0	18,4
Germany	1	2	0	0,25	0	3,25
Ireland	0	2	3	0,88	1	6,88
Netherlands	9	102	8	9	0	128
Norway ⁽¹⁾	49	6	34	15,1	5	109,1
Spain	0	0	0	0	1	1
United Kingdom	80	147	144	44	1	416
Total	151	259	190	74,63	8	683

A. Platforms are reported separately, even when they are joined by walkways or bridges.

B. Installations are reported as "Production" when production has started, even if drilling is still undergoing. Storage installations are considered as "Production".

C. Installations which produce oil and gas are considered as "oil installations".

D. Installations which produce gas and condensate are considered as "gas installations".

E. One installation per cluster of well heads.

F. Exploration & development drilling rigs with no simultaneous production only. The number is expressed in years-equivalent of activity.

G. Example: offshore underground storage and loading buoys

(1) For Norway, in the column "other", the figure 8 includes one storage ship, one riser platform and six loading buoys.

Part A: Report relating to 2006 data

Table 2: Produced water and displacement water

This table refers to all waters discharged to the sea (except cooling and sewage water) the quality of which should fit with OSPAR measures (cf. OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations). Drainage water is considered so far of such little consequence that there is no reporting requirement for OSPAR.

Year: 2006

Table 2a: Produced water ^A

Country	Total number of installations ^B	Annual quantity of water discharged ^C m ³	Annual average oil content (mg/l)			Total amount of oil discharged (tonnes)			Number of installations injecting water ^F	Annual quantity of water injected ^F m ³
			dissolved ^D	dispersed ^D	total ^E	dissolved ^D	dispersed ^D	total ^E		
Denmark	10	25 128 424	14,3	15,2	29,5	359,5	381,8	741,3	6	11 701 580
Germany	1	9 572	99,5	13,8	113,3	0,952	0,132	1,084	1	824 112
Ireland	1	214 729	2,03	3,84	5,87	0,004	0,008	0,013	0	0
Netherlands	72	9 646 550	5	12	17	52,4	113,5	165,9	4	5 296 785
Norway	41	144 741 847	11,9	16,9	28,8	1 711	2 441	4 152	18	31 693 056
Spain	0	0	0	0	0	0	0	0	1	6 565
United Kingdom	105	218 888 525	13	20	33	2 756	4 356	7 112	20	30 669 337
Total	230	398 629 647	12,2	18,3	30,5	4 880	7 292	12 172,30	50	80 191 435

A. "Produced water" means water which is produced in oil and/or gas production operations and includes formation water, condensation water and re-produced injection water; it also includes water used for desalting oil (Citation from OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations; definition of produced water).

B. Total number of installations discharging produced water.

C. Total quantity of produced water discharged to the sea during the year.

D. Dissolved and dispersed oils are, by definition, the oily compounds measured according to the PARCOM procedure as described in OSPAR Reference document 1997-16.

(IR, 3 or 1 wavelengths). Calculations are based on 1 or 3 wavelengths, depending whether it is aliphatics or aromatics which are to be reported.

E. Total = dissolved + dispersed

F. Produced water only (excluding sea water for pressure maintenance).

Part A: Report relating to 2006 data

Table 2b: Displacement water ^A

Year: 2006

Country	Total number of installations ^B	Annual quantity of water discharged ^C m ³	Annual average oil content (mg/l)			Total amount of oil discharged (tonnes)			Number of installations injecting water ^F	Annual quantity of water injected ^F
			dissolved ^D	dispersed ^D	total ^{E 1}	dissolved ^D	dispersed ^D	total ^{E 2}		
Denmark	2	2 858 732	0,01	1,16	1,18	0,03	3,33	3,36	0	0
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	1	1 035	0	17	17	0	0,037	0,037	0	0
Netherlands	1	0	0	0	0	0	0	0	1	659 536
Norway	6	41 633 651	NI	3,2	2,5	NI	133	133	0	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	2	1 247 359	NI	1	NI	NI	1	NI	0	0
Total	12	45 740 777	0,0	3,0	3,0	0	137	136	1	659 536

A. "Displacement water" is the seawater which is used for ballasting the storage tanks of the offshore installations (when oil is loaded into the tanks, the water is displaced, and is discharged to the sea; when oil is downloaded to shuttle tanks, seawater is introduced into the storage tanks to replace the downloaded oil).

B. Total number of installations discharging displacement water.

C. Total quantity of displacement water discharged to the sea during the year.

D. Dissolved and dispersed oils are, by definition, the oily compounds measured according to the PARCOM procedure as described in OSPAR Reference document 1997-16. (IR, 3 or 1 wavelengths). Calculations are based on 1 or 3 wavelengths, depending whether it is aliphatics or aromatics which are to be reported.

E. Total = dissolved + dispersed

F. Displacement water only (excluding sea water for pressure maintenance).

1. When no information is available on the annual average content of dissolved oils, total cannot be determined.

2. When no information is available on the total amount of dispersed oils discharged, total cannot be determined.

Part A: Report relating to 2006 data

Table 3: Installations exceeding the 40 mg/l performance standard for dispersed oil

This table concerns installations for which the average annual oil content of the produced water discharged to the sea exceeds the 40 mg/l performance standard as defined in OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations

Year: 2006

Country/ Installation ^A	Type of installation ^B	Type of water treatment equipment ^C	Quantity of water discharged during the year (10 ³ m ³)	Annual average oil content ^D (mg/l)			Total amount of oil discharged (tonnes per year) ^E		
				dissolved	dispersed	total	dissolved	dispersed	total
Norway/Brage	Oil	Hydrocyclone degassing tank, Epcon CFU	4803	13	52	65	63,0	250,0	313,0
Norway Grane	Oil	Hydrocyclone degassing tank (1)	126	4	80	84	0,5	10,2	10,7
Norway Heidrun	Oil	Oily water separator, Epcon FCU, flotation unit (2)	303	4	46	50	1,2	13,8	15,0
Shell - Leman Alpha	Gas	Gravity separator	22	8	915	923	0,2	20	21
BP - Ravenspurn North CPP Platform	Gas	Three Phase separator	8	289	803	1092	2,4	7	9
Shell - Clipper PT Platform	Gas	Gravity separator	35	166	266	432	5,9	9	15
BP - Cleeton CPQ Platform	Gas	Vertical gravity separator/ coalescer	15	788	249	1037	11,5	4	15
Perenco - Trent Platform	Gas	Scrubbers, coalescer and degasser	1	85	158	243	0,1	2	2
Perenco - Inde AC Platform	Gas	Horizontal gravity separator	24	15	74	89	0,4	2	2
ExxonMobil - Thames AP Platform	Gas	PW skimmer/Tilted plate separator	8	13	59	72	0,1	0	1
Talisman - BleoHolm FPSO	Oil	Gravity Separator/hydrocyclones/degasser	2084	122	58	180	254,2	121	376
Shell - Sean PP Platform	Gas	Gravity Separator	13	70	50	120	0,9	1	2
Talisman - Montrose Alpha	Oil	Hydrocyclones/DGF unit	674	7	42	49	4,7	29	33
Maersk - Gryphon Alpha	Oil	Separators/Coalescer/Hydrocyclones	10	35	41	76	0,4	0	1
Total			8 126	42,5	57,8	100,3	345	469	815

A. Name of the installation where the discharge took place.

B. Same categories as in table 1: Oil (O), Gas (G), Sub-sea (S), Other (oth) installations.

C. Piece of equipment at the outlet of which the oil content - exceeding 40 mg/l - is measured.

D. The annual average oil content is calculated on the basis of the total weight of oil discharged per year by the installation, divided by the total volume of produced water discharged during the same period.

E. The figures for Contracting Parties' total amount of oil discharged have been rounded up. The overall total value is the exact figure and may differ slightly from the sum of the Contracting Parties' total amount of oil discharged.

Part A: Report relating to 2006 data

Table 4: Use and discharges of organic-phase drilling fluids (OPF) ^A

Year: 2006

Table 4a: Use and discharges of oil-based fluids (OBF) ^B

Country	Total amount of OBF used (tonnes)	Cuttings discharged to the sea			OPF cuttings injected		Cuttings transported to shore ^E (tonnes)
		Number of wells concerned	Average oil concentration on cuttings (g/kg)	Total amount of oil discharged ^C (tonnes)	Number of wells concerned	Total amount of cuttings injected ^D (tonnes)	
Denmark	5 145	0	0	0	0	0	5 518
Germany	2 500	0	0	0	0	0	1 500
Ireland	0	0	0	0	0	0	0
Netherlands	29 048	0	0	0	0	0	15 262
Norway	183 702	0	0	0	71	54 433	22 679
Spain	0	0	0	0	0	0	0
United Kingdom	137 067	0	0	0	21	8 054	30 351
Total OBF	357 462	0	0	0	92	62 487	75 310

A. Organic-phase drilling fluid (OPF) means an organic-phase drilling fluid, which is an emulsion of water and other additives in which the continuous phase is a water-immiscible organic fluid of animal, vegetable or mineral origin.

B. Oil-based fluids (OBF) means low aromatic and paraffinic oils and those mineral oil-based fluids that are neither synthetic fluids nor fluids of a class whose use is otherwise prohibited.

C. Estimated amount of oil discharged to the sea, through the cuttings discharged.

D. Estimated amount of cuttings injected into disposal wells, excluding the water added for slurryfication.

E. Amount of cuttings transported to shore, for treatment and/or disposal.

Part A: Report relating to 2006 data

Table 4b: Use and discharges of non-OBF organic-phase drilling fluids (non-OBF OPF) ^A

Year: 2006

Country	Total amount of non-OBF OPF used (tonnes)	Cuttings discharged to the sea			OPF cuttings injected		Cuttings transported to shore ^D (tonnes)
		Number of wells concerned	Average organic phase concentration on cuttings (g/kg)	Total amount organic phase fluids discharged ^B (tonnes)	Number of wells concerned	Total amount of cuttings injected ^C (tonnes)	
Denmark	0	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0
United Kingdom	1	0	0	0	0	0	0
Total non-OBF OPF	1	0	0	0	0	0	0
Grand total OPF ^E	357 463	0	0	0	92	62 487	75 310

A. Definitions in the OSPAR Decision 2000/3 on the Use of Organic-phase Drilling Fluids (OPF) and the Discharge of OPF-contaminated Cuttings:

Organic-phase drilling fluid (OPF) means an organic-phase drilling fluid, which is an emulsion of water and other additives in which the continuous phase is a water-immiscible organic fluid of animal, vegetable or mineral origin;

Oil-based fluids (OBF) means low aromatic and paraffinic oils and those mineral oil-based fluids that are neither synthetic fluids nor fluids of a class whose use is otherwise prohibited;

B. Estimated amount of organic phase discharged to the sea, through the cuttings discharged.

C. Estimated amount of cuttings injected into disposal wells, excluding the water added for slurryfication.

D. Amount of cuttings transported to shore, for treatment and/or disposal.

E. Total OBF + non-OBF OPF.

Part A: Report relating to 2006 data

Table 5: Accidental spillages

Year: 2006

Table 5a: Accidental spillages of oil

Country	Number of oil spills		
	≤ 1 tonne	> 1 tonne	Total number
Denmark	46	0	46
Germany	0	0	0
Ireland	3	0	3
Netherlands	25	0	25
Norway (1)	115	7	122
Spain	0	0	0
United Kingdom	305	8	313
Total	494	15	509

Quantity of oil spilled (tonnes)		
≤ 1 tonne	> 1 tonne	Total number
4	0	4
0	0	0
0,04	0	0,04
0,7	0	0,7
10	95	105
0	0	0
23	40	63
37,8	135,0	172,8

(1) For Norway, the numbers in the column "quantity" are reported in m³ and are calculated with a density of 0,84 t/m³
flaring spillage is included with 2,75 tonne.

Table 5b: Accidental spillages of chemicals ^A

Country	Number of chemical spillages		
	≤ 1 tonne	> 1 tonne	Total number
Denmark	0	0	0
Germany	0	0	0
Ireland	0	0	0
Netherlands	5	0	5
Norway	75	27	102
Spain	0	0	0
United Kingdom	86	37	123
Total	166	64	230

Quantity of chemicals spilled (tonnes)		
≤ 1 tonne	> 1 tonne	Total number
0	0	0
0	0	0
0	0	0
0,8	0,0	0,8
18	430	448
0	0	0
17	375	391
35,8	805,0	839,8

(1) For Norway, the numbers in the column "quantity" are reported in m³ and are calculated with a density of 1,3 t/m³
A. Chemicals: all oil free spillages + non-OBF OPF drilling fluids spillages + oily WBM spillages (lubricant).

Part A: Report relating to 2006 data

Table 6: Emissions to air

Year: 2006

Country	CO ₂ ^A (10 ³ tonnes)	NO _x ^B (10 ³ tonnes)	nmVOCs ^C (10 ³ tonnes)	CH ₄ ^D (10 ³ tonnes)	SO ₂ (10 ³ tonnes)
Denmark	2,12	6,7	2,1	1,5	0,23
Germany	53,3	0,036	0,681	3,226	0,001
Ireland	60,34	0,270	0,1000	2,630	0,01000
Netherlands	1 285	3,86	3,7	12,1	0,17
Norway	11 562	54	79,54	26,2	0,696
Spain	36,6	0,0843	0,0779	0,308	0,00077
United Kingdom	16 008	49,0	50,0	36,0	3,33
Total	29 007	114	136	82	4,4

A. CO₂ is carbon dioxide emitted, not the carbon dioxide equivalents of the various greenhouse gases. Carbon monoxide (CO) is not included.

B. NO_x is the sum of nitric oxide (NO) and nitrogen dioxide (NO₂) expressed as NO₂ equivalent. Nitrous oxide (N₂O) is not included as a component of NO_x.

C. VOCs (Volatile Organic Compounds) comprise all hydrocarbons, other than methane, released to the atmosphere.

D. CH₄ corresponds to the methane released to the atmosphere, from any source.

Part A: Report relating to 2006 data

Table 7: The use and discharge of offshore chemicals

Year: 2006

Table 7a: Quantity of offshore chemicals used in kg/year

Country	Plonor ^B	LCPA ^C	Prescreening Category ^A				Ranking ^H	Total
			LC ₅₀ or EC ₅₀ < 1 mg/l ^D	Biodegradation < 20 % ^E	Substances meet two of three criteria ^F	Inorganic, LC ₅₀ or EC ₅₀ > 1 mg/l ^G		
Denmark	77 113 231	0	12 550	582 599	1 066 200	16 361 467	13 668 132	108 804 179
Germany	716 405	0	0	1516	878 855	1 400	127 403	1 725 579
Ireland	1 549 666	0	0	0	13 241	0	150 115	1 713 022
Netherlands (1)	36 984 151	0	0	885 546	5 291 265	3 066 667	5 490 597	54 293 677
Norway	227 536 000	1 094	0	2 935 500	2 761 900	2 654 000	87 938 000	323 826 494
Spain	0	0	0	0	0	0	0	0
United Kingdom(2)	228 968 694	1 714	1 510	6 261 981	1 452 989	902 180	96 609 873	334 198 941
Total	572 868 147	2 808	14 060	10 667 142	11 464 450	22 985 714	203 984 120	824 561 892

A. According to OSPAR Recommendation 2000/4 on a Harmonised Pre-screening Scheme for Offshore Chemicals and the terminology used in this Recommendation.

B. Substance on OSPAR List of Substances Used and Discharged Offshore which are Considered to Pose Little or no Risk to the Environment (PLONOR)
(Reference Number: 2004-10).

C. Substance listed in the OSPAR List of Chemicals for Priority Action (LCPA) (including its updates). Previously called Annex 2 substances because it referred to Annex 2 of the 1998 OSPAR Strategy with regard to Hazardous Substances. This Annex 2 has now been replaced by the LCPA. (Reference Number: 2004-12)

D. Inorganic substance with LC₅₀ or EC₅₀ less than 1 mg/l.

E. Biodegradation of the substance is less than 20% during 28 days.

F. Substance meets two of the following three criteria:

- I. (biodegradation in 28 days less than 70% (OECD 301A, 301E) or less than 60% (OECD 301B, 301C, 301F, 306);
- II. bioaccumulation log Pow > 3 or BCF > 100 and considering molecular weight;
- III. toxicity LC50 < 10mg/l or EC50 < 10mg/l.

G. Inorganic substance with LC50 or EC50 over 1 mg/l.

H. Substance does not fulfill the above mentioned criteria (1-7) and is therefore ranked according to OSPAR Recommendation 2000/4.

(1) The Netherlands have included 2 575 451 kg of unknown chemicals in their total

(2) UK Report only contains a full report for the first ¾ of the year 2006. For the last quarter of 2006 the figures only contain a full report for production installations and not drilling installations

Part A: Report relating to 2006 data

Table 7b: Quantity of offshore chemicals discharged in kg/year

Year: 2006

Country	Prescreening Category ^A						Ranking ^H	Total
	Plonor ^B	LCPA ^C	LC ₅₀ or EC ₅₀ < 1 mg/l ^D	Biodegradation < 20 % ^E	Substances meet two of three criteria ^F	Inorganic, LC ₅₀ or EC ₅₀ > 1 mg/l ^G		
Denmark	37 042 984	0	4 671	93 032	195 040	408 828	4 438 463	42 183 018
Germany	347 565	0	0	1 458	50	0	11 223	360 296
Ireland	1 040 761	0	0	0	4364	0	110 604	1 155 729
Netherlands (1)	15 093 836	0	0	35 123	13 811	364 578	254 341	18 135 081
Norway	63 424 400	213	0	18 661	23 450	126 000	10 952 000	74 544 724
Spain	0	0	0	0	0	0	0	0
United Kingdom(2)	97 718 855	137	1 440	1 576 984	617 192	362 715	12 906 482	113 183 805
Total	214 668 401	350	6 111	1 725 258	853 907	1 262 121	28 673 113	249 562 653

A. According to OSPAR Recommendation 2000/4 on a Harmonised Pre-screening Scheme for Offshore Chemicals and the terminology used in this Recommendation.

B. Substance on OSPAR List of Substances Used and Discharged Offshore which are Considered to Pose Little or no Risk to the Environment (PLONOR)
Reference Number: 2004-10).

C. Substance listed in the OSPAR List of Chemicals for Priority Action (LCPA) (including its updates). Previously called Annex 2 substances because it referred to Annex 2 of the 1998 OSPAR Strategy with regard to Hazardous Substances. This Annex 2 has now been replaced by the LCPA. (Reference Number: 2004-12)

D. Inorganic substance with LC₅₀ or EC₅₀ less than 1 mg/l.

E. Biodegradation of the substance is less than 20% during 28 days.

F. Substance meets two of the following three criteria:

I. (biodegradation in 28 days less than 70% (OECD 301A, 301E) or less than 60% (OECD 301B, 301C, 301F, 306);

II. bioaccumulation log Pow > 3 or BCF > 100 and considering molecular weight;

III. toxicity LC₅₀ < 10mg/l or EC₅₀ < 10mg/l.

G. Inorganic substance with LC50 or EC50 over 1 mg/l.

H. Substance does not fulfill the above mentioned criteria (1-7) and is therefore ranked according to OSPAR Recommendation 2000/4.

(1) The Netherlands have included 2 373 392 kg of unknown chemicals in their total

(2) UK Report only contains a full report for the first ¾ of the year 2006. For the last quarter of 2006 the figures only contain a full report for production installations and not drilling installations

Part A: Report relating to 2006 data

Table 7c: Quantity of offshore chemicals spilled in kg/year

Year: 2006

Country	Prescreening Category ^A							Total
	Plonor ^B	"LCPA" ^C	LC ₅₀ or EC ₅₀ < 1 mg/l ^D	Biodegradation < 20 % ^E	Substances meet two of three criteria ^F	Inorganic, LC ₅₀ or EC ₅₀ > 1 mg/l ^G	Ranking ^H	
Denmark	0	0	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0
Netherlands (1)	314	0	0	11	2	0	225	552
Norway	255 000	6	0	2 141	11 163	NI	72 400	340 710
Spain	0	0	0	0	0	0	0	0
United Kingdom	304 615	0	0	573	94	90	85 845	391 217
Total	559 929	6	0	2 725	11 259	90	158 470	732 479

A. According to OSPAR Recommendation 2000/4 on a Harmonised Pre-screening Scheme for Offshore Chemicals and the terminology used in this Recommendation.

B. Substance on OSPAR List of Substances Used and Discharged Offshore which are Considered to Pc
Reference Number: 2004-10).

C. Substance listed in the OSPAR List of Chemicals for Priority Action (LCPA) (including its updates). Previously called Annex 2 substances because
it referred to Annex 2 of the 1998 OSPAR Strategy with regard to Hazardous Substances. This Annex 2 has now been replaced by the LCPA. (Reference Number: 2004-12)

D. Inorganic substance with LC₅₀ or EC₅₀ less than 1 mg/l.

E. Biodegradation of the substance is less than 20% during 28 days.

F. Substance meets two of the following three criteria:

I. (biodegradation in 28 days less than 70% (OECD 301A, 301E) or less than 60% (OECD 301B, 301C, 301F, 306);

II. bioaccumulation log Pow > 3 or BCF > 100 and considering molecular weight;

III. toxicity LC₅₀ < 10mg/l or EC₅₀ < 10mg/l.

G. Inorganic substance with LC50 or EC50 over 1 mg/l.

H. Substance does not fulfill the above mentioned criteria (1-7) and is therefore ranked according to OSPAR Recommendation 2000/4.

Part B: Cumulative Report

Table 1: Number of installations in the OSPAR maritime area

Table 1a: Number of installations in the OSPAR maritime area with discharges to the sea, or emissions to the air, 1984-2006*

Country	1984	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	7	20	20	20	10,5	8	8,23	9	12	15	16	16	19	17	19	20	17	18
France ¹	0	0	0	0	0	0	0,1	0	0	0	0	0	0	0	0,1	0	0	0
Germany	1	3	3	4	2	1	1	2	2	2	3	3	3	2	2	3	4	3
Ireland	1	2	2	2	0	0	0	4	5	2,2	2,5	2,5	4	4	NI	6	6	7
Netherlands	30	63	60	88	97	103,5	114,93	113,8	106,3	104,1	105	108	114	114	123	124	129	128
Norway ²	13	24	25	34	93	90	83	61	53	54	59	60	65	67	63	103	108	109
Spain	1	1	1	1	1	1,5	9	5	2	0	0	1	1	1	1	1	1	1
UK ³	90	79	79	79	81	152	169	193	164	218	186	298	332	381	383	396	407	416
Total	143	192	190	228	284,5	356	385,26	387,8	344,3	395,3	371,5	488,5	538	586	592	653 ²	671	683

Table 1b ⁴: Total number of installations in the OSPAR maritime area, 1984-2006**

	1984	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Total	NI	NI	NI	NI	320	438	459	554	520	560	587	591	NI	1070	1131 ³	1130	1281	1281

¹ France had 1 exploratory well in 1995, and 1 in 2003.

² The fact that Norway reports subsea installations for the first time in 2004 leads to an artificial significant increase in the total.

³ UK has revised its criteria for counting subsea installations as from 2000.

⁴ The increase of the number of installations from year 2002 is mainly due to the change of rules in counting the installations. The numbers given for 2003 and 2004 reflect the current OSPAR database on offshore installations set up in accordance with OSPAR Decision 98/3 on the Disposal of Disused Offshore Installations

* These data are taken from table 1 of Part A of the report.

** These data are taken from the OSPAR inventory on offshore installations

Part B: Cumulative Report

Table 1c: Number of installations by type of installation in the OSPAR maritime area with discharges to the sea, or emissions to the air, 1993-2006 *

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Oil	88	104	99	133	120	135	137	174	152	153	146	148	148	151
Gas	148	183	204	207	171	164	186	239	223	225	254	257	257	259
Subsea	6	6	75	5	6	87	44	6,5	81	120	143	179	184	190
Drilling	43	63	7	43	47	9	4	69	76	86	45	58	71	75
Other	0	0	0	0	0	0	0	0	5	2	4	11	11	8
Total	285	356	385	388	344	395	371	489	537	586	592	653	671	683

* These data are taken from table 1 of Part A of the report.

Part B: Cumulative Report

Table 2: Oily aqueous discharges to the maritime area *

Table 2a: Oil discharged in displacement and produced water (in tonnes), 1984-2006

Country	1984	1990	1994	1996	1998	2000	2001	2002	2003	2004	2005	2006
							Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed
Denmark	57	36	138	164	174	271	290	294	358	431	446	385,13
Germany	NI	NI	0	0	0	0,045	0,22	0,17	0,20	0,20	0,15	0,132
Ireland	NI	NI	NI	0	0,02	0,245	NI	NI	NI	0,12	0,02	0,045
Netherlands	76	262	265	249	204	189	252	148	114	119	108	113,5
Norway	154	460	1 009	1 750	2 492	3 047	3 153	2 827	2 769	2 881	2 990	2 574
Spain	0	0,065	0	0	0	0	0	0	0	0	0	0
UK	1 430	3 187	4 615	5 784	5 692	5 751	5 694	5 721	5 276	5 279	4 970	4 357
Total	1 717	3 945	6 027	7 947	8 562	9 258	9 390	8 990	8 517	8 710	8 514	7 430

Dissolved from 2001

Country	2001	2002	2003	2004	2005	2006
	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved
Denmark	205	192	265	292	348	359,53
Germany	0,32	0,42	0,50	0,80	0,76	0,952
Ireland	NI	NI	NI	0,38	0,02	0,004
Netherlands	82	57	72	76	70	52,4
Norway	1 101	1 165	906	1 547	1 524	1 711
Spain	0	0	0	0	0	0
UK	3 710	4 260	3 599	3 276	3 049	2 756
Total	5 098	5 674	4 843	5 192	4 992	4 880

Table 2b: Quantity of displacement and produced water discharged daily to the sea (in m³/day), 1984-2006

Country	1984	1990	1994	1996	1998	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	NI	14 247	13 425	18 000	43 909	46 273	44 158	54 243	67 578	74 522	76 677
Germany			0	0	0	14	14	19	18	22	22	26
Ireland			NI	7	6,69	6	7	8	NI	8	7	591
Netherlands			35 105	35 214	30 303	31 820	38 117	24 263	21 381	23 313	24 275	26 429
Norway			316 029	412 283	462 969	461 323	493 342	490 826	524 910	537 342	533 349	510 618
Spain			NI	0	0	0	0	0	0	0	0	0
UK			512 657	567 540	693 151	652 188	696 482	738 082	719 950	690 481	642 967	603 112
Total			878 038	1 028 469	1 204 430	1 189 260	1 274 236	1 297 356	1 320 502	1 318 745	1 275 143	1 217 453

* These data are taken from table 2 of Part A of the report.

The data for 1992, 1995, 1997 and 1999 are available in previous reports.

Part B: Cumulative Report

Table 3: Installations which do not meet OSPAR performance standard for dispersed oil in aqueous discharges ^{A *}

Table 3a^B: Number of installations with discharges exceeding the 40 mg oil/l performance standard, 1984-2006, and quantity of oil discharged by these installations (in tonnes)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Total number of installations with discharges in the Convention area	190	228	285	356	385	388	344	395	371	489	537	586	623	648	671	671
Number of installations exceeding 40 mg/l	68	65	64	59	46	45	32	39	28	15	23	20	22	28	25	14
Quantity of dispersed oil ¹ discharged	2027	4299	1017	1724	2429	840	607	420	153	365	312	216	217	737	1044	469

1. "Dispersed oil", or aliphatics, as measured according to the PARCOM Procedure described in the "Methods of sampling and analysis for implementing the provisional target standard for discharges from oil and gas production platforms (OSPAR Reference document OSPAR 1997-16)

Table 3b^B: Number of installations with discharges exceeding the 40 mg oil/l performance standard, 1994-2006, by Contracting Party, and quantity of oil discharged by these installations (in tonnes)

Country	1994		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006	
	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged	Number of instal-lations	Amount dis-charged C	Number of instal-lations	Amount dis-charged C	Number of instal-lations	Amount dis-charged C	Number of instal-lations	Amount dis-charged C	Number of instal-lations	Amount dis-charged
Denmark	1	3	2	2	1	4	2	27	2	29	2	42	1	6	0	0	1	52	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Ireland	NI	NI	0	0	0	0	0	0	1	0,3	1	0,2	0	0	0	0	NI	NI	1	0,12	0	0	0	0
Netherlands	22	17	16	5	10	5	10	5	7	4	5	2	3	1	5	2	4	3	0	0	0	0	0	0
Norway	6	187	3	32	2	46	3	26	2	22	2	81	2	95	1	82	0	0	3	344	4	468	3	338,7
Spain	NI	NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UK	30	1 517	24	702	19	551	24	362	16	98	5	240	16	210	14	130	17	162	23	393	21	576	11	477
Total	59	1 724	45	741	32	606	39	420	28	153	15	365	23	313	20	216	22	217	27	737	25	1 044	14	816

A. The performance standard of 40 mg/l is defined on the basis of a monthly average. Most Contracting Parties, however, reported until 2000 only installations which exceeded the 40 mg/l performance standard on the basis of an annual average. From 2001 onwards, all the data is based on annual averages.

B. Data in Tables 3a and 3b refer to dispersed oil only.

C. The figures for Contracting Parties' total amount of oil discharged have been rounded up. The overall total value is the exact figure and may differ slightly from the sum of the Contracting Parties' total amount of oil discharged.

* These data are taken from table 3 of Part A of the report.

Part B: Cumulative Report

Table 4: Use and discharges of organic-phase drilling fluids (OPF) and cuttings

Table 4a: Quantities of oil and other organic-phase fluids discharged via cuttings (in tonnes), 1984-2006 *

Country	1984	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
	Oil & Diesel ¹	Oil	Oil	Oil	Oil	Oil	Oil	Oil	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²	Total OPF ²
Denmark	676	507	0		0	0	0	0	31	0	0	0	0	0	0	0	0	0
Germany	NI	NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	NI	NI	NI	NI	NI	NI	0	0	0	0	NI	NI	NI	NI	NI	0	0	0
Netherlands	1 017	284	142	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norway	3 466	636	683	83	0	0	0	0	0	0	0	2 014	1 127	954	342	425	0	0
Spain	0	0	0	0	0	0	NI	0	0	0	0	0	0	0	0	0	0	0
UK	19 800	12 312	11 225	7 169	4 588	4 582	3 865	3 965	7 203	5 005	4 591	1 937	200	0	0	0	0	0
Total	24 959	13 739	12 050	7 293	4 588	4 582	3 865	3 965	7 234	5 005	4 591	3 951	1 327	954	342	425	0	0

¹ Diesel oil represents roughly 10% of total oil & diesel oil discharged in 1984. The discharge of diesel oil ceased in 1985.

² Total OPF is the sum of OBF and non-OBF OPF. No oil-based mud contaminated cuttings have been discharged since 1996

* These data are taken from table 4b of Part A of the report.

Part B: Cumulative Report

Table 4b: Number of wells drilled with OPF, 1984-2000 *

Country	1984 ⁽¹⁾	1990 ⁽¹⁾	1991 ⁽¹⁾	1992 ⁽¹⁾	1993 ⁽¹⁾	1999 ⁽²⁾		2000 ⁽²⁾	
	OBM	OBM	OBM	OBM	OBM	OBM	OPF	OBM	OPF
Denmark	13	20	21	22	32	8	NA	5	NA
Germany	0	1	1	0	0	4	0	3	0
Ireland	NI	4	0	0	NI	NI	NA	NI	NA
Netherlands	56	49	59	52	37	22	0	16	0
Norway	76	96	97	138	116	98	NA	NI	NA
Spain	NI	NI	NI	NI	NI	0	NA	0	NA
United Kingdom	290	314	425	372	336	0	166	133	NA
Total	435	484	603	584	521	132	166	157	NA

(1) data on OBM only for these years. Other OPF not yet in use.

(2) OPF (non-OBF OPF) was only reported on a voluntary basis.

Table 4c: Number of wells drilled with OPF, with discharge of contaminated cuttings to the maritime area, 2001-2006 *

Wells for which all cuttings are re-injected or brought to shore are not taken into account in this table.

Country	2001		2002		2003		2004		2005		2006	
	OBF	non-OBF OPF	OBF	non-OBF OPF	OBF	non-OBF OPF	OBF	non-OBF OPF	OBF	non-OBF OPF	OBF	non-OBF OPF
Denmark	0	0	0	0	0	0	0	0	0	0	0	0
Germany	0	0	0	0	0	NI	0	0	0	0	0	0
Ireland	NI	NA	0	1	NI	NI	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	17	0	0	0	0	0
Norway	0	24	0	13	0	7	0	4	0	0	0	0
Spain	0	0	NA	N/A	NA	NA	0	0	0	0	0	0
United Kingdom	3	3	0	0	0	0	0	0	0	0	0	0
Total	3	27	0	14	0	7	17	4	0	0	0	0

* The data in tables 4b and 4c are taken from table 4 of Part A.

Part B: Cumulative Report

Table 5: Spillage and flaring of oil *

Table 5a: Number of oil spills, 1994-2006 - Spills less than 1 tonne (≤ 1 T) and spills above 1 tonne (> 1 T)

Country	1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark	105	10	126	1	105	1	71	2	110	0	99	4	69	4	79	0	58	2	82	2	70	0	44	1	46	0
Germany	NI	NI	NI	NI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	NI	NI	NI	NI	0	0	0	0	1	1	NI	NI	NI	NI	0	0	0	0	NI	NI	0	0	0	0	3	0
Netherlands	82	2	0	61	63	2	63	1	60	0	16	1	27	0	35	1	24	0	33	0	31	1	25	0	25	0
Norway	349	7	281	14	246	9	245	10	249	15	226	12	198	5	221	7	238	9	121	11	108	10	141	6	115	7
Spain	NI	NI	NI	NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	136	21	129	9	276	19	304	24	366	11	347	11	406	12	408	17	454	16	366	6	445	13	428	10	305	8
Total	672	40	536	85	690	31	683	37	786	27	688	28	700	22	743	25	774	27	602	19	654	24	638	17	494	15

Table 5b: Quantity of oil spilled, in tonnes, 1994-2006

Country	1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark	<26	10	<66	1	7,3	1,1	11,7	2,8	11	0	11	9	5,5	402,5	15	0	7	21	12	6,8	6	50	3	3	4	0
Germany	NI	NI	NI	NI	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	NI	NI	NI	NI	0	0	0	0	<1	0	NI	NI	NI	NI	0	0	0	0	NI	NI	0	0	0	0	0,04	0
Netherlands	<8,2	2	1,5	0	1	38	0,9	18	1,26	0	1	5,6	0,5	0	0,8	3,04	1	0	0,18	0	0,119	1,625	0,2	0	0,7	0,0
Norway	32	23	28	89	37	26	35,6	72,4	25	131	23	114	16	12	18,4	24,7	16,5	76,4	47	690	7	58	13	303	10	95
Spain	NI	NI	NI	NI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	17,8	155,2	19,2	64,5	80,9	45,1	34,1	828,9	36,9	97,1	42	77	38	36	33,5	509,1	31,24	60,46	21	47	29	47	38	39	23	40
Total	<84	190,2	<114,7	154,5	126,2	110,2	82,3	922,1	<74,2	228,1	77	206	60	453,5	68	537	56	158	80	744	42	157	54	345	38	135

1. Revised data for 2001: Pipeline leak investigated in 2001 resulted in operator being fined for a discharge of 450 tonnes of crude oil

* These data are taken from table 5a of Part A of the report.

Part B: Cumulative Report

Table 6: Emissions to air, 1992-2006 *

CO ₂ (10 ⁶ tonnes)													
Country	1992	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	1,23	1,58	1,64	1,87	2,47	2,3	2,2	2,2	2,2	2,3	2,1	2,12
Germany	0,01	0,01	0,02	0,03	0,02	0,09	0,01	0,02	0,01	0,02	0,03	0,06	0,05
Ireland	NI	NI	0,10	0,025	0,11	0,1	0,09	0,08	0,07	NI	0,07	0,06	0,06
Netherlands	NI	1,22	1,11	1,19	1,59	1,29	1,20	1,33	1,33	1,27	1,27	1,33	1,29
Norway	7,5	8,1	8,9	8,47	9,34	9,38	10,09	11,1	10,79	11,40	11,34	12	12
Spain	0,86	NI	0,025	0,03	0	0	0,03	0,02	0,04	0,03	0,03	0,06	0,04
United Kingdom	79,36	20,46	15,9	19,1	20,9	19,8	18,3	19	19,9	18,79	18,52	18	16
Total	88	31	28	30	34	33	32	34	34	34	34	34	31

NO _x (10 ³ tonnes)													
Country	1992	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	6,24	6,77	8,4	NI	13,62	12,3	5,35	5,30	5,30	7,2	6,5	6,7
Germany	0,12	0,05	0,08	0,10	0,04	0,13	0,07	0,06	0,04	0,08	0,1	0,139	0,036
Ireland	NI	NI	0,25	0,61	0,26	0,2	0,17	0,18	0,16	NI	0,16	0,145	0,270
Netherlands	NI	5,7	5,08	5,83	5,05	4,64	5,64	4,8	5	6,6	3,74	3,81	3,86
Norway	31,3	32	34,7	43	46,1	41	44,2	51	48,7	50,3	51,6	54,4	54
Spain	0,8	NI	0,113	0,14	0	0	0,11	0,04	0,08	0,07	0,076	0,129	0,0843
United Kingdom	195,7	56,69	38,8	57,8	66,7	55,8	45,8	53,5	69,43	61,25	60,1	59,0	49,0
Total	228	101	86	116	118	115	108	115	129	124	123	124	114

VOCs (10 ³ tonnes)													
Country	1992	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	1	1	1	NI	2	9	10	10	8	5	4	2
Germany	0	0	0	0	0	0	0	0	0	0	0	0	1
Ireland	NI	NI	0	0	0	0	0	0	0	NI	0	0	0
Netherlands	NI	10	7	5	8	8	6	6	5	5	4	4	4
Norway	122	99	182	189	174	191	213	229	198	165	132	94	80
Spain	0	NI	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	208	76	59	107	80	75	73	87	93	79	66	49	50
Total	331	185	249	302	262	276	301	332	307	257	207	151	136

CH ₄ (10 ³ tonnes)													
Country	1992	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	2	2	3	5	2	3	10	7	7	8	6	2
Germany	0	0	0	0	0	0	0	0	0	0	0	1	3
Ireland	NI	NI	1	1	3	16	1	25	0	NI	1	0	3
Netherlands	NI	55	41	25	21	20	15	16	13	19	11	12	12
Norway	11	13	26	29	26	29	29	34	32	31	31	29	26
Spain	1	NI	0	0	0	0	0	0	0	0	0	0	0
United Kingdom	226	70	56	79	72	65	56	57	52	51	55	41	36
Total	238	140	126	136	126	132	104	142	105	108	106	90	82

SO ₂ (10 ³ tonnes)													
Country	1992	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	NI	NI	0,1	0,1	0,1	0,3	0,3	0,6	0,3	0,4	0,5	0,2	0,2
Germany	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Ireland	NI	NI	0,0	0,0	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Netherlands	NI	0,4	0,5	0,4	0,2	0,2	0,1	0,2	0,2	0,2	0,1	0,1	0,2
Norway	NI	0,2	0,3	0,0	0,6	0,1	1,4	0,9	0,8	0,6	0,6	0,7	0,7
Spain	NI	NI	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
United Kingdom	31,4	10,4	2,3	13,9	11,6	9,7	6,4	6,3	2,0	2,6	2,9	3,0	3,3
Total	31,4	11,0	3,2	14,4	12,7	10,3	8,2	8,0	3,3	3,7	4,2	4,1	4,4

* These data are taken from table 6 of Part A of the report.

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2001-2006

The Netherlands have included 2 575 451 kg of unknown chemicals in their total in 2006.

UK Report only contains a full report for the first ¾ of the year 2006. For the last quarter of 2006 the figures only contain a full report for production installations and not drilling installations.

Table 7a: Quantity of offshore chemicals used and discharged in kg/year on the PLONOR* List

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	92 514 186	72 358 514	60 382 417	52 667 440	41 208 531	77 113 231
France	0	0	526 654	NI	NA	NA
Germany	21 300	4 000	1 098 862	977 651	2 138 463	716 405
Ireland	NI	NI	NI	830 542	9 287	1 549 666
NL	23 995 497	NI	31 899 171	26 342 421	35 701 161	36 984 151
Norway	NI	NI	237 163 000	226 932 000	228 476 000	227 536 000
Spain	0	NA	1 272 695	0	0	0
UK	163 353 409	249 030 742	255 774 970	126 364 612	271 496 796	228 968 694
Total	279 884 392	321 393 256	588 117 769	434 114 666	579 030 238	572 868 147

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
51 541 713	50 619 400	38 246 458	30 666 043	28 296 022	37 042 984
0	0	526 654	NI	NA	NA
19 170	3 600	517 593	761 332	1 036 263	347 565
NI	NI	NI	460 057	2 566	1 040 761
12 580 602	NI	10 920 587	10 946 870	12 104 182	15 093 836
115 098 100	102 934 930	78 976 000	63 582 000	56 370 000	63 424 400
0	NA	976 450	0	0	0
72 045 032	109 474 671	113 811 824	64 219 437	117 027 290	97 718 855
251 284 617	263 032 601	243 975 566	170 635 739	214 836 323	214 668 401

* Substance on OSPAR List of Substances Used and Discharged Offshore which are Considered to Pose Little or no Risk to the Environment (PLONOR)

(Agreement Number: 2004-10).

Table 7b: Quantity of offshore chemicals used and discharged in kg/year, on the List of Chemicals for Priority Action (LCPA)*

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	0	900	606	136	0	0
France	0	0	0	NA	0	0
Germany	0	0	0	0	0	0
Ireland	NI	NI	NI	NI	1 000	0
NL	2 042	NI	302	0	0	0
Norway	NI	NI	844	800	2 505	1 094
Spain	0	NA	0	0	0	0
UK	0	222	2 090	2 285	191	1714
Total	2 042	1 122	3 842	3 221	3 696	2 808

Quantity of chemicals discharged (kg)					2006
2001	2002	2003	2004	2005	
0	300	60	14	0	0
0	0	0	NA	NA	NA
0	0	0	0	0	0
NI	NI	NI	NI	0	0
145	NI	271	0	0	0
917	765	240	200	30	213
0	NA	0	0	0	0
0	46	171	191	191	137
1 062	1 111	742	405	221	350

* Substance listed in the OSPAR List of Chemicals for Priority Action (LCPA) (including its updates). (Agreement number: 2004-12)

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2001-2006

Table 7c: Quantity of offshore chemicals used and discharged in kg/year, inorganic substances with LC₅₀ or EC₅₀ less than 1 mg/l

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	18 164 615	85 194	128 622	14 839	8 115	12 550
France	0	0	0	NA	NA	NA
Germany	0	0	2 000	0	0	0
Ireland	NI	NI	NI	NI	0	0
NL	260	NI	0	31	0	0
Norway	NI	NI	0	0	1 000	0
Spain	0	NA	0	0	0	0
UK	0	0	0	0	10 333	1 510
Total	18 164 875	85 194	130 622	14 870	19 448	14 060

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
156 968	43 443	58 553	1 215	54	4671
0	0	0	NA	NA	NA
0	0	0	0	0	0
NI	NI	NI	NI	0	0
1	NI	0	3	0	0
771	100	0	0	0	0
0	NA	0	0	0	0
0	0	0	0	10 306	1440
157 740	43 543	58 553	1 218	10 360	6 111

Table 7d: Quantity of offshore chemicals used and discharged in kg/year, substances where the biodegradation is less than 20% during 28 days

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	1 041 714	1 324 413	1 813 142	1 782 941	894 141	582 599
France	0	0	0	NI	NA	NA
Germany	0	0	3 239	4 333	4100	1516
Ireland	NI	NI	NI	NI	0	0
NL	1 112 344	NI	4 279 111	633 725	3 433 667	885 546
Norway	NI	NI	3 450 000	3 769 100	3 066 300	2 935 500
Spain	0	NA	0	0	0	0
UK	12 826 964	4 934 729	8 240 728	4 227 698	7 244 942	6 261 981
Total	14 981 022	6 259 142	17 786 220	10 417 797	14 643 150	10 667 142

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
200 844	166 387	163 236	123 729	106 127	93 032
0	0	0	NI	NA	NA
0	0	3 104	634	4 100	1 458
NI	NI	NI	NI	0	0
9 592	NI	64 041	77 473	42 716	35 123
733 970	796 810	331 000	211 490	62 270	18 661
0	NA	0	0	0	0
2 247 435	1 328 207	1 547 258	1 734 676	1 889 783	1576984
3 191 841	2 291 404	2 108 639	2 148 002	2 104 996	1 725 258

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2001-2006

Table 7e: Quantity of offshore chemicals used and discharged in kg/year, substances which meet two of three PBT-criteria*

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	1 695 332	1 353 975	1 341 775	1 494 033	1 322 226	1 066 200
France	0	0	0	NA	NA	NA
Germany	18500	20 337	1 132 505	652 623	2 631 107	878 855
Ireland	NI	NI	NI	26	0	13 241
NL	919 017	NI	3 918 807	2 097 535	8 972 101	5 291 265
Norway	NI	NI	4 023 000	4 069 000	3 428 700	2 761 900
Spain	0	NA	0	0	0	0
UK	6 339 638	9 323 127	9 836 007	8 014 175	4 630 943	1 452 989
Total	8 972 487	10 697 439	20 252 094	16 327 392	20 985 077	11 464 450

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
347 438	332 519	206 293	301 211	319 223	195 040
0	0	0	NA	NA	NA
175	183	1 372	9 429	9 316	50
NI	NI	NI	1	0	4 364
5 703	NI	11 368	39 107	16 560	13 811
327 472	210 150	293 000	81 900	33 985	23 450
0	NA	0	0	0	0
895 102	1 051 622	1 318 525	4 062 814	1 399 510	617 192
1 575 890	1 594 474	1 830 558	4 494 462	1 778 594	853 907

* The criteria are as follows:

- I. (biodegradation in 28 days less than 70% (OECD 301A, 301E) or less than 60% (OECD 301B, 301C, 301F, 306);
- II. bioaccumulation log Pow > 3 or BCF > 100 and considering molecular weight;
- III. toxicity LC50 < 10mg/l or EC50 < 10mg/l.

Table 7f: Quantity of offshore chemicals used and discharged in kg/year, inorganic substances with LC₅₀ or EC₅₀ > 1 mg/l*

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark				14 196 383	12 738 121	16 361 467
France				NA	NA	NA
Germany				0	0	0
Ireland				NI	0	0
NL				2 032 827	1 916 271	3 066 667
Norway				NI	2 671 000	2 654 000
Spain				0	0	0
UK				33 542	73 409	902 180
Total				16 262 752	17 398 801	22 984 314

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
			980 564	138 620	408 828
			NA	NA	NA
			0	0	0
			NI	0	0
			240 660	172 416	364 578
			NI	137 000	126 000
			0	0	0
			25 964	64 902	362 715
			1 247 188	512 938	1 262 121

* No data have been submitted prior to 2004

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2001-2006

Table 7g: Quantity of offshore chemicals used and discharged in kg/year, in substances ranked according to OSPAR Recommendation 2000/4 and which do not fulfill the criteria of tables 7 a, b, c, d, e and f

Country	Quantity of chemicals used (kg)					
	2001	2002	2003	2004	2005	2006
Denmark	16 890 132	29 776 007	28 646 471	17 001 572	14 093 489	13 668 132
France	0	0	3 025	NA	NA	NA
Germany	55 700	84 900	361 531	424 432	387 282	127 403
Ireland	NI	NI	NI	NI	0	150 115
NL	7 339 587	NI	3 809 425	2 811 406	2 809 975	5 490 597
Norway	NI	NI	79 178 000	83 915 000	82 626 000	87 938 000
Spain	0	NA	16 950	0	0	0
UK	163 288 565	49 435 450	27 483 033	63 147 289	44 840 086	96 609 873
Total	187 573 984	79 296 357	139 498 435	167 299 699	144 756 832	203 984 120

Quantity of chemicals discharged (kg)					
2001	2002	2003	2004	2005	2006
5 009 968	4 580 064	4 194 417	3 191 761	3 223 911	4 438 463
0	0	3 025	NA	NA	NA
0	0	19 944	69 099	41 275	11 223
NI	NI	NI	NI	0	110 604
311 191	NI	157 936	157 648	193 412	254 341
11 815 950	10 897 930	10 977 000	10 599 000	10 103 000	10 952 000
0	NA	3 450	0	0	0
48 535 999	16 904 059	11 101 380	29 930 079	14 056 179	12 906 482
65 673 108	32 382 053	26 457 152	43 947 587	27 617 777	28 673 113

Part B: Cumulative Report

Table 8: Total discharges and spillage of dispersed oil, in tonnes, 1984-2006

Country	1984	1990	1992	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Denmark	763	543	81	178	196	172	173	185	201	679	305	322	377	487	452	389
Germany	0	NI	NI	NI	NI	NI	0	0	0	3	0	0	0	0	0	0
Ireland	0	NI	NI	NI	NI	NI	0	1	0,042	0,245	0	0	NI	0	0	0
Netherlands	1 153	546	285	275	232	288	284	205	169	190	256	149	114	121	108	114
Norway	3 900	1 096	1 491	1 064	1 519	1 813	2 440	2 648	2 887	3 081	3 210	2 921	3 505	2 946	3 306	2 679
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom ¹	21 360	15 499	12 335	9 371	9 835	9 876	13 856	10 832	10 387	5 473	6 010	5 817	5 345	5 355	5 047	4 420
Total	27 176	17 684	14 192	10 888	11 783	12 150	16 752	13 872	13 643	9 426	9 782	9 209	9 341	8 909	8 913	7 602

Notes :Spillages are not taken into account for 1990.

From 1997-1999, UK data include OPF.

¹ Revised data for 2001: Pipeline leak investigated in 2001 resulted in operator being fined for a discharge of 450 tonnes of crude oil

These data are taken from Table 2a Part A, Table 2b Part A and Table 5a of Part A