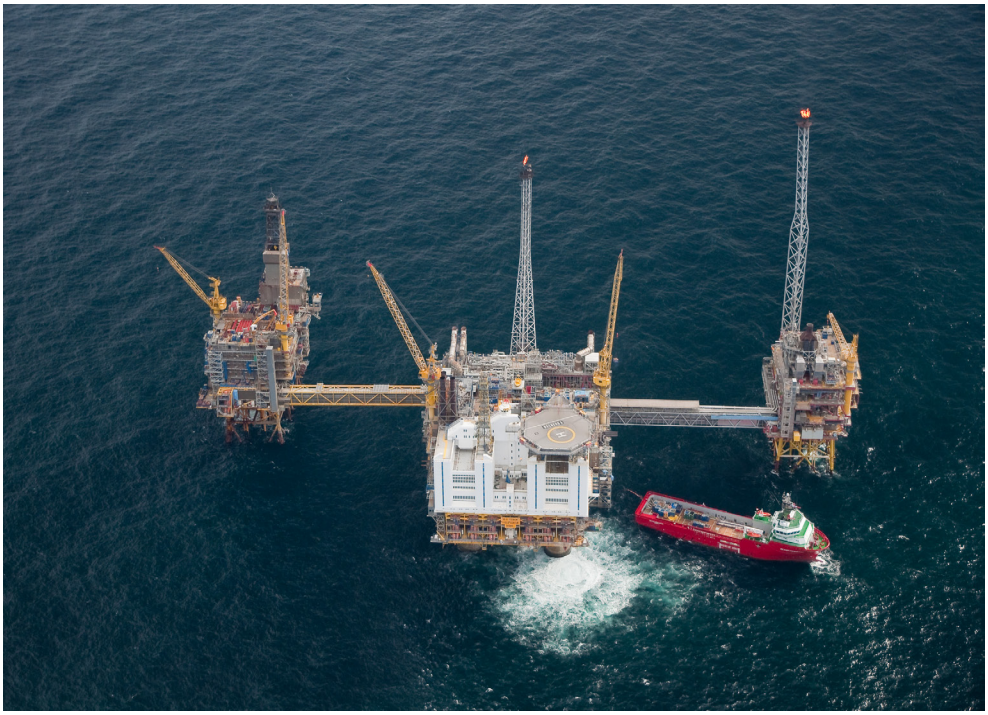
OSPAR
COMMISSION

OSPAR report on discharges, spills and emissions from offshore oil and gas installations in 2014



Offshore Industry Series

2016

OSPAR Convention

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. The Contracting Parties are Belgium, Denmark, the European Union, Finland, France, Germany, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Convention OSPAR

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. Les Parties contractantes sont l'Allemagne, la Belgique, le Danemark, l'Espagne, 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, la Suisse et l'Union européenne.

Acknowledgement

This report has been prepared by the Offshore Industry Committee expert assessment panel (EAP) consisting of:

- Mr Andrew Taylor (Convenor, United Kingdom)
- Mr Mikael Malinovsky (Denmark)
- Mr Henrik Nielsen (Denmark)
- Mr Emmanuel Garland (France)
- Mr Kurt Machetanz (Germany)
- Ms Margot Cronin (Ireland)
- Mr Ivan Abdoellakhan (the Netherlands)
- Ms Tone Sørgård (Norway)
- Ms Ingeborg Rønning (Norway)

with the support of the Secretariat of the OSPAR Commission.

Contents

Executive Summary

Regular reporting is required in order to review progress in implementing the North-East Atlantic Environment Strategy and OSPAR measures (decisions, recommendations and other agreements) related to offshore oil and gas activities.

This report presents the discharges, spills and emissions from offshore installations in 2014. Part A of the report compiles data on the number of installations with emissions and discharges, discharges of produced water and displacement water contaminated with oil, and the use and discharge of drilling fluids, cuttings and chemicals. It also reports on accidental spills of oil and chemicals and emissions to air. Part B of the report presents the discharges and emissions over the period 2005-2014 to show the trends in discharges and emissions and use of chemicals.

Récapitulatif

Une notification régulière s'impose pour suivre la progression de la mise en œuvre de la Stratégie pour le milieu marin de l'Atlantique du Nord-est, ainsi que l'application de mesures OSPAR (décisions, recommandations et autres accords) qui visent les activités pétrolières et gazières en offshore.

Ce rapport présente les rejets, déversements et émissions provenant des installations offshore en 2014. Dans la partie A du rapport, sont collationnées les données sur le nombre d'installations procédant à des émissions et à des rejets, à des rejets d'eau de production et d'eau de déplacement 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 du rapport sont indiqués les rejets et les émissions au cours de la période allant de 2005 à 2014, afin de mettre en évidence les tendances des rejets et des émissions ainsi que la consommation des produits chimiques.

1. Introduction

1.1 Programmes and measures relevant to this report

At their meeting in Bergen (Norway) on 23-24 September 2010, OSPAR Ministers adopted the Strategy of the OSPAR Commission for the Protection of the Marine Environment of the North-East Atlantic 2010-2020 ("the North-East Atlantic Environment Strategy") (OSPAR Agreement 2010-3).

The North-East Atlantic Environment Strategy sets out OSPAR's vision, objectives, strategic directions and action for the period up to 2020. In Part I, the Strategy gives prominence to the overarching implementation of the ecosystem approach and the need for integration and coordination of OSPAR's work across themes and groups. Part II provides the thematic strategies for Biodiversity and Ecosystems, Eutrophication, Hazardous Substances, Offshore Oil and Gas Industry and Radioactive Substances.

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

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

The Offshore Strategy provides that the OSPAR Commission will keep under review and, where necessary, develop programmes and measures in respect of all phases of the offshore activities, in accordance with the provisions of the OSPAR Convention and the findings of the Quality Status Report 2010.

To this end, the Offshore Strategy requires the OSPAR Commission to continue the annual collection of data on use and discharges of offshore chemicals, emissions to air, spills, and discharges of oil and radioactive substances. 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 measures[1] are relevant for this report:

Operational discharges of oil

- PARCOM Recommendation 86/1 of a 40 mg/l Emission Standard for Platforms;[2]
- OSPAR Reference Method of Analysis for the Determination of the Dispersed Oil Content in Produced Water (OSPAR Agreement number: 2005-15);
- OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations as amended by OSPAR Recommendation 2006/4 and OSPAR Recommendation 2011/8;

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 (OSPAR Agreement number: 2002-8);

Use and discharge of chemicals

- OSPAR Decision 2000/2 on a Harmonised Mandatory Control System for the Use and Reduction of the Discharge of Offshore Chemicals as amended by OSPAR Decision 2005/1;
- OSPAR Recommendation 2010/3 on a Harmonised Offshore Chemical Notification Format (HOCNF)
- OSPAR Recommendation 2010/4 on a Harmonised Pre-Screening Scheme for Offshore Chemicals;

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1 All measures referred to in this chapter can be downloaded from the OSPAR website www.ospar.org

2 PARCOM Recommendation of a 40 mg/l Emission Standard for Platforms, 1986 was revoked for produced water 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.

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 assessments

In preparation for the Annual OSPAR Reports on Discharges, Spills and Emissions from Offshore Oil and Gas Installations, data are submitted by Contracting Parties, compiled by the Secretariat and, following examination by the relevant subsidiary bodies, published by the OSPAR Commission. At first annual reports were published as part of the OSPAR Commission's general Annual Report, and from 1992 onwards they are published in the form of Annual OSPAR Reports on Discharges, Spills and Emissions from Offshore Oil and Gas in the OSPAR maritime area. From 1999 onwards, annual reports also contained a biennial assessment of discharges, spills and emissions, which started in 1999 with the assessment of data reported in 1996 and 1997. With a view to harmonising the way in which data and information on offshore oil and gas activities are being established and reported, the former Programmes and Measures Committee of the OSPAR Commission adopted in 1995 a reporting format and procedures. Over time, the reporting requirements and format for data collection have regularly been reviewed and updated in the light of ongoing work under the OSPAR Commission as regards offshore installations. The reporting format was examined by the Offshore Industry Committee's Expert Assessment Panel in 2012 and revised to bring it in-line with the revised OSPAR Harmonised Mandatory Control System for the Use and Reduction of the Discharge of Offshore Chemicals (i.e. OSPAR Decision 2000/2, and Recommendations 2010/3 and 2010/4). The revised reporting format was adopted by OSPAR in 2012 (OSPAR Agreement 2012-08).

This report presents the discharges, spills and emissions data from offshore installations for 2014 in Part A and cumulative data in Part B.

2. Results

Part A: Report relating to 2014 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 2014 data

Part A : Report relating to 2014 data

Table 1: Number of installations with emissions and discharges covered by OSPAR measures[a]

Year: 2014

Country	Production		Subsea[d]	Other[e]	Total	Number of wells drilled[f]
	Oil [b]	Gas[c]				
Denmark [(1)]	20	0	0	0	**20**	10
Germany	1	1	0	0	**2**	3
Ireland	0	1		0	**1**	1
Netherlands	9	118	0	0	**127**	20
Norway	49	12	53	0	**114**	226
Spain	0	1	0	1	**2**	0
United Kingdom	90	192	212	1	**495**	106
Total	**169**	**325**	**265**	**2**	**761**	**366**

a. It should be noted that each CP records number of installations in accordance with its own accounting system.
b. Installations which produce oil and gas are considered as "oil installations".
c. Installations which produce gas and condensate are considered as "gas installations".
d. Subsea installations are determined differently by each Contracting Party.
e. Example: offshore underground storage and loading buoys.
f. Number of wells drilled are for wells completed in that calendar year.

[(1)] The number for wells drilled comprises 1 well drilled at the Faroe Islands.

Part A: Report relating to 2014 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: 2014

Table 2a: Produced water[a]

Country	Total number of installations[b]	Annual quantity of water discharged[c] (m^3)	Annual average dispersed[d] oil concentration (mg/l)	Total amount of dispersed[d] oil discharged (tonnes)	Annual average BTEX[e] concentration (mg/l)	Total amount of BTEX[e] discharged (tonnes)	Number of installations injecting water[f]	Annual quantity of water injected[f] (m^3)
Denmark	16	24 109 367	6,7	161	3,9	93	8	10 645 576
Germany	1	9 595	18,1	0,1	99,3	0,6	1	2 394 287
Ireland	1	1 126	27,5	0,03	60,5	0,1	0	0
Netherlands	77	2 277 430	16	36,44	21,1	48	9	6 690 997
Norway	42	141 006 271	12,5	1 761	13,5	1 910	21	39 360 701
Spain	0	0	0,0	0	0,0	0	0	0
United Kingdom[(1)]	108	156 247 100	12,8	1 997	15,6	2 430	24	31 090 615
Total	**245**	**323 650 889**	**12,2**	**3 956**	**13,8**	**4 481**	**63**	**90 182 176**

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 (as amended), 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. Dispersed oil is, by definition, the oil measured according to the method described in § 7.2 of the OSPAR Recommendation 2006/4 and specified in the OSPAR Agreement 2005-15.

e. BTEX determined according to 1.1 of OSPAR Recommendation 2001/1, as amended by OSPAR Recommendation 2011/8, are considered as dissolved oil.

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

(1) UK - The total amount of BTEX discharged is believed to include a sampling or analytical error however it has not been possible to obtain corrected data for this year.

Part A: Report relating to 2014 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: 2014

Table 2b: Displacement water[a]

Country	Total number of installations[b]	Annual quantity of water discharged[c] (m^3)	Annual average dispersed[d] oil concentration (mg/l)	Total amount of dispersed[d] oil discharged (tonnes)	Annual average BTEX[e] concentration (mg/l)	Total amount of BTEX[e] discharged (tonnes)	Number of installations injecting water[f]	Annual quantity of water injected[f] (m^3)
Denmark	2	1 207 986	0,6	0,78	0,1	0,1	0	0
Germany	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0
Netherlands	2	432 759	2,08	0,9	2,3	1,0	0	0
Norway	6	33 230 953	1,3	44	NA	NA	0	0
Spain	0	0	0	0	0	0	0	0
United Kingdom	2	487 593	0,01	0,004	4,7	2,3	0	0
Total	**12**	**35 359 291**	**1,3**	**45**	**0,1**	**3**	**0**	**0**

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. Dispersed oil is, by definition, the oil measured according to the method described in § 7.2 of the OSPAR Recommendation 2006/4 and specified in the OSPAR Agreement 2005-15

e. BTEX determined according to 1.1 of OSPAR Recommendation 2001/1, as amended by OSPAR Recommendation 2011/8, are considered as dissolved oil.

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

Part A: Report relating to 2014 data

Table 3: Installations which fail to meet the 30 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 30 mg/l performance standard as defined in OSPAR Recommendation 2001/1 for the Management of Produced Water from Offshore Installations (as amended)

Year: 2014

Country/Installation[a]	Type of installation[b]	Quantity of water discharged during the year (1000m^3)	Annual average concentration of dispersed oil[c] (mg/l)	Total amount of dispersed oil discharged (tonnes/yr)	Total amount of dispersed oil during the period exceeding the performance standard[d] (tonnes/yr)
Denmark - Siri/DONG	Oil	27	30,21	0,80	0,006
Norway - Heimdal	Gas	1	73,88	0,06	0,040
Norway - Oseberg A	Gas	841	41,00	34,27	9,050
Norway - Oseberg Sør	Oil	437	30,88	13,48	0,380
Norway - Sleipner Øst/Statoil	Gas	3	361,59	1,15	1,050
UK - Alwyn North NAB Platform	Oil	67	54,86	3,65	1,655
UK - Cleeton CPQ Platform	Gas	0,2	140,19	0,02	0,018
UK - Everest North Platform	Condensate	12	31,39	0,38	0,017
UK - Foinaven - FPSO Petrojarl	Oil	139	36,97	5,14	0,969
UK - Malory Platform	Gas	1	56,86	0,03	0,014
UK - Ravenspurn North CPP Platform	Gas	62	161,88	10,07	8,206
UK - Ross FPSO Belo Holm	Oil	739	34,38	25,39	3,231
UK - Rough AD Platform	Gas	0,2	121,87	0,02	0,014
UK - Trent Platform	Gas	10	38,94	0,38	0,086
UK - Tyne Platform	Gas	4	72,89	0,30	0,177
UK - West Sole WA Main Platform	Gas	2	75,71	0,16	0,095
Total		**2 316,4**	**40,77**	**94**	**25**

a. Name of the installation where the discharge takes place.
b. Same categories as in table 1: Oil (O), Gas (G), Other (oth) installations
c. The annual average concentration of dispersed oil content should be 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.
d. To calculate this amount use the following formula: (annual average concentration of dispersed oil minus 30) * volume discharged.

PART A: Report relating to 2014 data

Table 3a. Information on installations which fail to meet the 30 mg/l performance standard and discharging more than 2 tonnes of dispersed oil per year

This table concerns installations for which the average annual oil content of the produced water discharged to the sea exceeds the 30 mg/l performance standard as

Year: 2014

Country/Installation/Operator[a]	Type of installation	Annual average concentration of dispersed oil (mg/l)[b]	Treatment equipment installed	Reasons for not achieving the standard	Action being taken
Norway - Oseberg A	Gas	41	Separators and floatation	Reinjection facility shut down from August to December 2014 due to possible unstable well integrity. Reinjection is now back to normal.	Reinjection is now fixed, focus on improving cleaning
Norway - Oseberg Sør	Oil	30,88	Separators, 3 hydrocyclones and degassing	Problems with reinjection	Focus on increasing injection
UK - Alwyn North NAB Platform	Oil	54,86	Gravity separation with oil skimming. Primary disposal is PWRI with overboard as back up route when PWRI is not available. PWRI was online for >95% during 2014.	An increase in Dunbar water production resulting in increased amounts of water being carried over into the produced water system at Alwyn. The corrosion inhibitor used on Dunbar is also suspected to detrimentally affect OIWs. Some down time of the PWRI pumps.	Chemical trials to improve Dunbar PW quality. Testing of the performance of the produced water plant. Ongoing maintenance of the PWRI pumps
UK - Foinaven - FPSO Petrojarl	Oil	36,97	Primary Treatment: Gravity seperation and chemical treatment. Secondary Treatment: Hydrocyclones	Rapidly increasing water cut in the produced fluids has resulted in equipment, including the oil seperation and produced water treatment system, operating outside of its optimum performance envelope.	Action plan agreed with DECC including significant modifications to top side seperation equipment. This includes: - Generation of a dynamic process simulation - Process optimisation studies and tuning offshore - Demulsifier trials - Changeout of slug catcher, 1st and 2nd Stage seperator and produced water flash drum internals.

PART A: Report relating to 2014 data

Country/Installation/Operator[a]	Type of installation	Annual average concentration of dispersed oil (mg/l)[b]	Treatment equipment installed	Reasons for not achieving the standard	Action being taken
UK - Ravenspurn North CPP Platform	Gas	161,88	Ravenspurn North discharge to sea: Separator - Oily Water Treatment Vessel - Closed Drains Vessel Johnston subsea tie-back discharge to sea: A 'mare's tail' coalesce - hydrocyclone package - produced water treatment vessel - Closed Drains Vessel	Emulsion within the Ravespurn produced water preventing sufficient separation taking place and resulting in high oil in produced water. Produced water volumes from the Johnston field have markedly increased.	Ongoing optimisation of CETCO skid has led to improvement in oil in produced water. Modifications to and subsequent replacement of the mares tail coelescer. Replacement of control valve on the coelescer and subsequent optimisation. Co-mingling of Johnston and Ravenspurn produced water streams where possible has enabled an improvement in total discharge of oil. Engineering team evaluating an alternative treatment system (a coalescing filter cartridge system), which may have a better performance than the CETCO skid.
UK - Ross FPSO Bleo Holm	Oil	34,38	Hydrocyclones, Degasser, Slops Tank	During rough seas, vessel motion causes disturbance in slops tanks giving rise to poor OIW separation.	On identification of high OIW, overboard discharge stopped, levels in slops tank allowed to rise until vessel movement, and hence disturbance in slops tanks, subsides.

a. Name of the installation where the discharge takes place.
b. The annual average oil content should be 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.

Part A: Report relating to 2014 data

Table 3b. Information on installations which fail to meet the 30 mg/l performance standard and discharging less than 2 tonnes of dispersed oil per year

Year: 2014

Installation/Operator [a]	Type of installation [b]	Annual average concentration of dispersed oil mg/l [c]	Treatment equipment installed
Denmark - Siri/DONG	Oil	30,21	Separators, Elektrostatic Coalescer, hydrocyclones, a degasser and PWRI.
Norway - Sleipner	Gas	361,59	3 step separators
Norway - Heimdal	Gas	73,88	Compact flotation unit
UK - Rough AD Platform	Gas	121,87	Production Separators Coalescers Skimmer Hydrocarbon Sump Tank Oily Water Separator Oil Absorption Media Filter Caisson
UK - Cleeton CPQ Platform	Gas	140,19	Cleeton discharge to sea: Separator - Coalescer - PW Treatment Unit (Filtration & Coalescer) Cleeton injection downhole: Separator - Coalescer - PW Treatment Unit (Filtration & Coalescer) - PWRI storage vessel.
UK - Malory Platform	Gas	56,86	Two-phase production separator - coalescer - Produced water degassing drum
UK - West Sole WA Main Platform	Gas	75,71	West Sole Alpha discharge to sea: The production separator V3000 - Degassing pot
UK - Tyne Platform	Gas	72,89	Tyne discharge to sea: Production separators - PW coalescer - PW degasser - drains sump tank - disposal caisson

Part A: Report relating to 2014 data

UK - Trent Platform	Gas	38,94	Trent discharge to sea: Production separators - PW coalescer - PW degasser - drains sump tank - disposal caisson TORS discharge to sea: Production separator - MEG storage bottles - drains sump tank - disposal caisson
UK - Everest North Platform	Condensate	31,39	IP & LP Separators, Chemical Injection & Tilted Plate Separator

a. Name of the installation where the discharge takes place.

b. Same categories as in table 1: Oil (O), Gas (G), Other (oth) installations

c. The annual average oil content should be 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.

Part A: Report relating to 2014 data

Table 4a: Use and Discharges of Oil Based drilling Fluids (OBF) and cuttings [a]

Year: 2014

Country	Total amount of OBF (fluid only) used (tonnes)	Number of wells drilled with OBF[c]	Cuttings discharged to the sea after treatment				OBF cuttings injected		Cuttings transported to shore (tonnes)
			Number of wells concerned	Amount of cuttings discharged (tonnes)	Average OBF[d] concentration in cuttings (%)	Total amount of OBF discharged[e] (tonnes)	Number of wells concerned	Total amount of cuttings injected[f] (tonnes)	
Denmark	4 530	5	0	0	0	0	4	599	2 824
Germany	2 626	3	0	0	0	0	0	0	2 799
Ireland	0	0	0	0	0	0	0	0	0
Netherlands	23 918	14	0	0	0	0	0	0	12 189
Norway	128 187	160	0	0	0	0	30	22 253	55 061
Spain	0	0	0	0	0	0	0	0	0
United Kingdom	63 928	105	9	9 228	0,02	1,9	18	7 422	32 445
Total OBF	**223 189**	**287**	**9**	**9 228**	**0,02**	**1,9**	**52**	**30 274**	**105 318**

a. Any use of drilling fluids regulated by OSPAR Decision 2000/3 on the Use of Organic-Phase Drilling Fluids (OPF) and the Discharge of OPF-Contaminated Cuttings should be reported. It concerns all OPF and includes inter alia Oil Based Fluids (OBF), as defined in OSPAR Decision 2000/3.

b. OP is the acronym for organic phase: it means oil in the case of OBF, the organic phase mixture for the other OPFs.

c. Report the estimated amount of OBF discharged to the sea, through the cuttings discharged.

d. As defined in OSPAR Decision 2000/3.

e. Report the amount of cuttings transported to shore, for treatment and/or disposal.

f. Report the estimated amount of cuttings injected into disposal wells, excluding the water added for slurryfication.

Part A: Report relating to 2014 data

Table 4b: Use and Discharges of other Organic Phase drilling Fluids (Other OPF)[b]

Year: 2014

Country	Total amount of OPF (fluid only) used (tnnes)	Number of wells drilled with OPF[c]	Cuttings discharged to the sea after treatment				OPF cuttings injected		Cuttings transported to shore[g] (tonnes)
			Number of wells concerned	Amount of cuttings discharged	Average OP[d] concentration in cuttings (%)	Total amount of OP discharged[e] (tonnes)	Number of wells concerned	Total amount of cuttings injected[f] (tonnes)	
Denmark	6 281	3	0	0	0	0	0	0	2 983
Germany	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0
Norway	816	2	0	0	0	0	2	741	0
Spain	0	0	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	0	0
Total non-OBF OPF	**7 097**	**5**	**0**	**0**	**0**	**0**	**2**	**741**	**2 983**
Grand Total OBF[h]	**230 286**	**292**	**9**	**9 228**	**0,05**	**1,9**	**54**	**31 015**	**108 301**

a. Any use of drilling fluids regulated by OSPAR Decision 2000/3 on the Use of Organic-Phase Drilling Fluids (OPF) and the Discharge of OPF-Contaminated Cuttings should be reported. It concerns all OPF and includes inter alia Oil Based Fluids (OBF), as defined in OSPAR Decision 2000/3.

b. Other OBF OPF, including synthetics.

c. An OPF well is drilled with at least one section of the well with OPF

d. OP is the acronym for organic phase: it means oil in the case of OBF, the organic phase mixture for the other OPFs.

e. Report the estimated amount of OP discharged to the sea, through the cuttings discharged.

f. Report the estimated amount of cuttings injected into disposal wells, excluding the water added for slurryfication.

g. Report the amount of cuttings transported to shore, for treatment and/or disposal.

h. Total OBF + non-OBF OPF.

Part A: Report relating to 2014 data

Table 5: Accidental spillages

Year: 2014

Table 5a: Accidental spillages of oil [a]

Country	Number of oil spills			Total quantity of oil spills (tonnes)		
	≤ 1 tonne	> 1 tonne	Total number	≤ 1 tonne	> 1 tonne	Total Quantity
Denmark	74	3	77	2	43,0	45,0
Germany	0	0	0	0	0,0	0,0
Ireland	0	0	0	0	0	0
Netherlands	17	0	17	0,3	0	0,3
Norway [(1)]	60	8	68	9,4	134,0	143,5
Spain	0	0	0	0	0	0
United Kingdom [(2)]	404	6	410	22,5	18,8	41,3
Total	**555**	**17**	**572**	**34,2**	**195,8**	**230**

a. Flaring spillages are included in oil spillages

[(1)] Norway - Reports m^3 rather than tonnes

[(2)] UK - There are two oil spill incidents which have not been included within this return as they are subject to an ongoing investigation.

Table 5b: Accidental spillages of chemicals[a, b]

Country	Number of chemical spillages			Total Quantity of chemicals spilled (tonnes)		
	≤ 1 tonne	> 1 tonne	Total number	≤ 1 tonne	> 1 tonne	Total Quantity
Denmark	28	2	30	2	9	11
Germany	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Netherlands	16	3	19	0,2	3,945	4
Norway [(1)]	203	19	222	22,0	736	758
Spain	0	0	0	0	0	0
United Kingdom [(2)]	182	34	216	41,3	280	321
Total	**429**	**58**	**487**	**65,5**	**1029**	**1 095**

a. Chemical spills include all drilling fluids for all CPs except for the Netherlands in case of the oil in OBF which is reported as an oil spill.

b. The total quantity of chemicals spilled are reported in these tables. The total quantities of specific components spilled are reported in Table 7c.

[(1)] Norway - Reports m^3 rather than tonnes.

[(2)] UK: There is one chemical incident which has not been included within this return as it is subject to an ongoing investigation.

Part A: Report relating to 2014 data

Table 6: Emissions to air

Year: 2014

Country	CO_2[a] (10^3 tonnes)	NO_x[b] (tonnes)	nmVOCs[c] (tonnes)	CH_4[d] (tonnes)	SO_2 (tonnes)
Denmark [(1)]	1 774	7 813	2 172	3 719	145
Germany	43	36	147	291	0,3
Ireland	38	140	3	363	3
Netherlands	2 268	4 166	3 673	12 741	290
Norway	12 060	51 775	48 176	28 253	862
Spain	1	7	13	115	N/D
United Kingdom	12 594	46 069	38 104	43 083	2 241
Total	**28 777**	**110 006**	**92 286**	**88 565**	**3 540**

a. CO_2 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 (NO_2) expressed as NO_2 equivalent. Nitrous oxide (N_20) 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. CH_4 corresponds to the methane released to the atmosphere, from any source.

Part A: Report relating to 2014 data

Table 7: The use and discharge of offshore chemicals [a, b]

Year: 2014

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

Country	Prescreening Category							
	Plonor	LCPA	LC_{50} or EC_{50} < 1 mg/l	Biodegradation < 20 %	Substances meet two of three criteria	Inorganic, LC50 or EC50 > 1 mg/l	Ranking	Total
Denmark	32 965 260	0	0	168 585	17 654	2 367 795	15 614 440	**51 133 734**
Germany	1 522 980	0	0	19 570	24 437	450	60 926	**1 628 363**
Ireland	878 846	0	0	6	107	0	20 915	**899 874**
Netherlands	42 614 129	0	0	203 370	116 197	950 654	12 819 428	**56 703 779**
Norway	322 304 630	0	120	1 820 950	1 351 210	0	194 465 840	**519 942 750**
Spain	0	0	0	0	0	0	0	**0**
United Kingdom	185 467 972	108	546	1 644 336	2 204 106	2 116 846	78 631 851	**270 065 764**
Total	**585 753 816**	**108**	**666**	**3 856 817**	**3 713 711**	**5 435 745**	**301 613 400**	**900 374 264**

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

b. The total quantities of specific components are reported in this table.

Part A: Report relating to 2014 data

Table 7b: Quantity of offshore chemicals discharged in kg/year [a, b]

Year: 2014

Country	Prescreening Category							
	Plonor	LCPA	LC_{50} or EC_{50} < 1 mg/l	Biodegradation < 20 %	Substances meet two of three criteria	Inorganic, LC50 or EC50 > 1 mg/l	Ranking	Total
Denmark	8 694 006	0	0	360	0	522 361	4 793 565	**14 010 292**
Germany	130 691	0	0	1 898	0	0	1 174	**133 763**
Ireland	673 680	0	0	6	34	0	15 577	**689 297**
Netherlands	18 269 435	0	0	1 094	16 642	81 835	578 461	**18 947 466**
Norway	107 667 490	0	30,00	5 220	9 040	0	59 137 480	**166 819 260**
Spain	0	0	0	0	0	0	0	**0**
United Kingdom	58 222 340	0	79	345 846	646 476	463 057	10 074 380	**69 752 179**
Total	**193 657 642**	**0**	**109**	**354 424**	**672 192**	**1 067 253**	**74 600 637**	**270 352 257**

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

b. The total quantities of specific components are reported in this table.

Part A: Report relating to 2014 data

Table 7c: Quantity of offshore chemicals spilled in kg/year [a, b]

Year: 2014

Country	Prescreening Category							
	Plonor	LCPA	LC_{50} or EC_{50} < 1 mg/l	Biodegradation < 20 %	Substances meet two of three criteria	Inorganic, LC50 or EC50 > 1 mg/l	Ranking	Total
Denmark	7 355	0	0	0	0	0	177	**7 532**
Germany	0	0	0	0	0	0	0	**0**
Ireland	0	0	0	0	0	0	0	**0**
Netherlands	1 153	0	0	6	0	11	431	**1 600**
Norway	567 470	0	360	2 960	2 780	0	173 242	**746 812**
Spain	0	0	0	0	0	0	0	**0**
United Kingdom	127 143	0	0	395	793	160	46 188	**174 679**
Total	**703 121**	**0**	**360**	**3 361**	**3 573**	**171**	**220 038**	**930 623**

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

b. The total quantities of specific components are reported in this table.

Part A: Report relating to 2014 data

Table 8: Discharges of radioactive substances in produced water in terabecquerel (TBq), in 2014

Country	OSPAR Region	Pb-210	Ra-226	Ra-228
Denmark	II	3,50E-04	2,50E-03	9,88E-04
Ireland	III	9,38E-07	1,16E-06	1,84E-07
Germany	II	< 0,000009	1,08E-04	1,50E-05
Netherlands	II	7,00E-03	9,60E-02	1,24E-01
Norway	I	3,00E-03	4,80E-02	4,29E-02
Norway	II	1,63E-02	3,58E-01	3,07E-01
UK	II	1,28E-02	2,17E-01	1,49E-01
UK [(1)]	III	4,89E-05	4,31E-03	3,02E-03
Total		**0,04**	**0,73**	**0,63**

[(1)] Only two operators reported discharges to OSPAR Region III of Pb-210, Ra-226 and Ra-228.

More information on this data is available in the annual OSPAR Report on draft discharges of radionuclides from the non-nuclear sectors.

Part A: Report relating to 2014 data

Table 9: Installations included in the Risk Based Approach

Year: 2014

Country	No. of Installations included within RBA process	No. of Installations Assessed to date	Assessment method [a]	No. of Installations where risk is adequately controlled [b]	No of Installations still awaiting outcome of assessment [c]	No. of Installations where action is to be taken [d]
Denmark [(1)]						
Germany [(1)]						
Ireland [(1)]						
Netherlands	77	12	C / WET / WEA	11	0	1
Norway	41	41	S / C	19	0	22
Spain[(1)]						
United Kingdom	105	13	S / WET / WEA / C	1	12	ND

[a] For assessment method, C (Chemical), WET (Whole Effluent Toxicity), WEA (Whole Effluent Assessment), S (Substance level).

[b] Determination of whether 'Risk is adequately controlled' is as described in OSPAR Recommendation 2012/5 and according to national criteria.

[c] Outcome of assessment will determine whether further action is needed or the risk is adequately controlled.

[d] Action needed may be chemical substitution, technology or other measure implemented.

[(1)] Denmark, Germany, Ireland and Spain have not yet commenced any RBA assessments.

Part B: Cumulative Report

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 2005-2014*

Country	2005	2006	2007	2008	2009	2010	2011[4]	2012	2013	2014
Denmark [1]	17	19	19	18	20	20	18	15	14	20
Germany	4	3	3	3	3	2	2	2	2	2
Ireland	1	1	2	2	1	2	2	2	2	1
Netherlands	129	128	130	132	135	138	128	127	127	127
Norway [2]	108	109	125	128	143	136	103	115	114	114
Spain	1	1	1	1	2	2	2	1	2	0
UK [3]	407	416	444	457	439	484	487	489	496	495
Total[5]	**666**	**677**	**725**	**741**	**743**	**784**	**742**	**751**	**757**	**759**

[1] Part of the Danish reports contain the reports on number of installations from Faroe Islands: for 2006: 0,3 installation; for 2008: 0,4 installation; for 2010: 0,3 installation.

[2] Norway started reporting subsea installations in 2004.

[3] UK revised its criteria for counting subsea installations in 2010.

[4] From 2011 drilling activity has been excluded from this total.

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

Part B: Cumulative Report

Table 1 (cont'd): Number of installations in the OSPAR maritime area in accordance with OSPAR Decision 98/3 on the Disposal of Disused Offshore Installations

Table 1b: Total number of installations as detailed in the "Inventory of oil and gas offshore installations in the OSPAR maritime area "

	2003	2005	2007	2009	2011	2013	2014
Total	1167	1131	1281	1340	1495	1545	1585

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, 2005-2014*

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Oil	148	151	154	155	158	169	160	162	162	169
Gas	257	259	274	276	280	318	316	329	330	324
Subsea	184	190	206	220	221	230	262	257	262	265
Other	11	8	11	11	9	9	4	3	3	1
Total	**600**	**608**	**645**	**662**	**668**	**726**	**742**	**751**	**757**	**759**
Drilling[1]	71	75	85	84	74	57	-	-	-	-
Wells[2]	-	-	-	-	-	-	380	402	416	366

[1] From 2011 number of wells drilled is reported rather than 'drilling years' as in previous years

[2] From 2011, the number of wells completed in that calendar year are reported.

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

Table 2: Oily aqueous discharges to the maritime area*

Table 2a: Oil discharged in produced and displacement water (in tonnes), 2005-2014

Country	2005 (IR)	2006 (IR)	2007 (IR)	2008 (IR)	2009 (IR)	2010 (IR)	2011 (IR)	2012 (IR)	2013 (IR)	2014 (IR)
	Dispersed	Dispersed	Dispersed	Dispersed[1]	Dispersed[2]	Dispersed[2]	Dispersed[2]	Dispersed[2]	Dispersed[2]	Dispersed[2]
Denmark	446	385	386	380	340	ND	ND	ND	ND	ND
Germany	0,15	0,13	0,12	0,11	ND	ND	ND	ND	ND	ND
Ireland	0,02	0,05	0,03	0,04	0,01	0,01	0,02	0,02	0,02	0,03
Netherlands	108	114	156	140	54	ND	ND	ND	ND	ND
Norway	2 833	2 379	ND	ND	ND	ND	ND	ND	ND	ND
Spain	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UK	4 970	4 357	ND	ND	ND	ND	ND	ND	ND	ND
Total	**8 357**	**7 235**	**542**	**520**	**394**	**0,01**	**0,02**	**0,02**	**0,02**	**0,03**

Country	2007 (GC-FID)	2008 (GC-FID)	2009 (GC-FID)	2010 (GC-FID)	2011 (GC-FID)	2012 (GC-FID)	2013 (GC-FID)	2014 (GC-FID)
	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed
Denmark	ND	ND	ND	214	165	116	178	162
Germany	ND	ND	0,16	0,19	0,29	0,40	0,20	0,10
Ireland	ND	ND	ND	ND	ND	ND	ND	ND
Netherlands	ND	ND	54	83	56	75	60	37
Norway	1 626	1 627	1 542	1 490	1 529	1 593	1 595	1 805
Spain	ND	ND	ND	ND	ND	ND	ND	ND
UK	2 960	3 160	2 900	3 008	2 493	2 267	2 176	1 997
Total	**4 586**	**4 787**	**4 496**	**4 795**	**4 244**	**4 052**	**4 009**	**4 001**

(1) The Netherlands have reported on IR in 2007 and on a mixture of IR and GC in 2009.

(2) The Netherlands went over to the new GC-FID on 1st July 2009.

Dissolved from 2004

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	Dissolved	Dissolved	Dissolved		Dissolved	Dissolved	BTEX	BTEX	BTEX	BTEX
Denmark	348	359,53	353,39	202,38	195	216	165	136	89	93
Germany	0,76	0,952	0,591	0,545	0,395	0,672	0,78	0,8	0,6	0,6
Ireland	0,02	0,004	0,050	0,011	0,025	0,290	0,37	0,3	0,1	0,1
Netherlands	70	52,4	72	66,835	61,649	75,59	67,7	64,4	54,5	49
Norway	1 524	1 711	1 879	1 852	1 954	1 820	1 675	1 855	1 920	1 910
Spain	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UK[1]	3 049	2 756	2 273	3 783	2 619	2 115	2 477	2 178	4 010	2 432
Total	**4 992**	**4 880**	**4 578**	**5 905**	**4 830**	**4 228**	**4 386**	**4 235**	**6 074**	**4 485**

Please note that the Netherlands are not in favour of splitting Table 2a data from 2007 into IR and GC-FID, as they believe that insufficient evidence is presented.

[1] The UK data for 2013 is high due to sampling & analysis error for one installation, however it is not possible to provide corrected data.

*These data are taken from Tables 2a & 2b in Part A.

Part B: Cumulative Report

Table 2: Oily aqueous discharges to the maritime area *

Table 2b: Annual quantity of produced and displacement water discharged to the sea (in m^3), 2005-2014

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark	27 200 586	27 987 156	27 449 366	30 456 486	27 607 788	26 948 864	26 125 942	25 148 540	24 747 426	25 317 353
Germany	7 953	9 572	8 573	8 291	12 139	15 706	18 182	19 182	15 283	9 595
Ireland	2 558	9	2 177	1 997	1 286	1 577	1 538	1 696	1 359	1 126
Netherlands	8 860 547	9 646 550	38 391	12 607 963	30 373	9 646 665	8 479 610	9 490 079	4 123 842	2 710 189
Norway	194 672 501	510 618	203 906 043	185 022 927	166 337 259	162 796 616	155 576 354	162 401 528	159 533 151	174 237 224
Spain	0	770	992	0	0	0	0	0	0	0
UK	234 683 044	220 135 884	202 861 251	197 688 091	196 622 027	540 766	174 871 616	155 833 156	149 964 142	156 734 693
Total	**465 427 189**	**258 290 559**	**434 266 793**	**425 785 755**	**390 610 872**	**199 950 194**	**365 073 242**	**352 894 181**	**338 385 203**	**359 010 180**

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

Comment referencing earlier years removed

Table 2c: Total volume of produced water and displacement water discharged, and produced water injected (in m^3/year), 2005-2014

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
PW*	413 865 753	398 629 647	401 516 892	385 158 923	365 677 026	361 133 229	335 320 487	318 496 588	304 073 595	323 650 889
DPW**	51 561 436	45 740 777	46 723 197	40 626 832	35 989 804	35 655 541	29 752 755	34 397 593	34 311 608	35 359 291
IPW	76 893 589	80 185 640	87 721 185	84 083 816	88 027 421	86 744 890	91 006 849	98 399 905	91 227 430	90 182 176
Total	**542 320 778**	**524 556 064**	**535 961 274**	**509 869 571**	**489 694 251**	**483 533 660**	**456 080 091**	**451 294 086**	**429 612 633**	**449 192 356**

* Produced water as mentioned in Table 2a in Part A

** Displacement water as mentioned in Table 2b in Part A

*** Injected produced and displacement water as mentioned in Table 2a & Table 2b in Part A

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, 2005-2006, and quantity of oil discharged by these installations (in tonnes)

	2005	2006
Total number of installations with discharges in the Convention area	671	671
Number of installations exceeding 40 mg/l	25	14
Quantity of dispersed oil discharged	1044	469

Table 3b[b]: Number of installations with discharges exceeding the 30 mg oil/l performance standard, valid from 2007 onwards, and quantity of oil discharged by these installations (in tonnes)

	2007	2008	2009	2010	2011	2012	2013	2014
Total number of installations with discharges in the Convention area	730	746	743	811	742	752	756	759
Number of installations exceeding 30 mg/l	22	31	31	20	20	17	19	16
Quantity of dispersed oil discharged	319	297	340	276	101	206	244	94

"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).

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.

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 3: Installations which do not meet OSPAR performance standard for dispersed oil in aqueous discharges [a*]

Table 3c: Number of installations with discharges exceeding the 40 mg oil/l performance standard, 2005-2006, by Contracting Party and quantity of oil discharged by these installations (in tonnes)

Country	2005		2006	
	Number of installations	Amount discharged	Number of installations	Amount discharged
Denmark	0	0	0	0
Germany	0	0	0	0
Ireland	0	0	0	0
Netherlands	0	0	0	0
Norway	4	468	3	339
Spain	0	0	0	0
UK	21	576	11	477
Total	**25**	**1 044**	**14**	**816**

a. The performance standard of 40 mg/l is defined on the basis of a monthly average.

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 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 3: Installations which do not meet OSPAR performance standard for dispersed oil in aqueous discharges*

Table 3d: Number of installations with discharges exceeding the 30 mg oil/l performance standard, valid from 2007 onwards and quantity of oil discharged by these installations (in tonnes), in excess of the 30 mg/performance standard

Country	2007		2008		2009		2010		2011		2012	
	Number of installations	Amount discharged	Number of installations	Amount discharged	Number of installations	Amount discharged	Number of installations	Amount discharged	Number of installations	Amount discharged	Number of installations	Amount discharged
Denmark	0	0	0	0	2	7	1	1	0	0	1	0,3
Germany	0	0	0	0	0	0	0	0	0	0	0	0,0
Ireland	0	0,0	0	0	0	0	0	0	0	0	0	0,0
Netherlands	4	1,6	7	0,6	7	4	0	0	3	0,1	1	0,0
Norway	2	22	4	12	0	0	3	1,6	4	1,1	4	3,0
Spain	0	0	0	0	0	0	0	0	0	0	0	0,0
UK	16	295	20	204,8	22	99,4	16	130,4	13	33,9	11	44,1
Total	**22**	**319**	**31**	**217**	**31**	**110**	**20**	**133**	**20**	**35**	**17**	**47**

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

Country	2013		2014	
	Number of installations	Amount discharged	Number of installations	Amount discharged
Denmark	0	0	1	0,006
Germany	0	0	0	0
Ireland	0	0	0	0
Netherlands	2	0,3	0	0
Norway	3	3,3	4	10,5
Spain	0	0,0	0	0
UK	14	77,3	11	14,5
Total	**19**	**81**	**16**	**25**

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), 2005-2014 *

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[1]	Total OPF[2]
Denmark	0	0	0	0	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
UK	0	0	0	0	0	1	4	5	3	2
Total	0	0	0	0	0	1	4	5	3	2

[1] Total OPF is the sum of OBF and non-OBF OPF. No oil-based mud contaminated cuttings have been discharged since 1996 except in accordance with OSPAR Decision 2000/3

* These data are taken from tables 4a & 4b of Part A of the report.

Part B: Cumulative Report

Table 4b: Number of wells drilled with OBF & OPF, with discharge of contaminated cuttings to the maritime area, 2005-2014*

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

	2005		2006		2007		2008		2009	
Country	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
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0	0	1	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**

	2010		2011		2012		2013		2014	
Country	OBF	non-OBF OPF	OBF	Other OPF	OBF	Other OPF	OBF	Other OPF	OBF	Other OPF
Denmark	0	0	0	0	0	0	1	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	11	0	11	0	8	0	9	0	9	0
Total	**11**	**0**	**11**	**0**	**8**	**0**	**10**	**0**	**9**	**0**

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

Original Table 4b deleted as referred to wells drilled in 2000. Table 4c renamed 4b

Part B: Cumulative Report

Table 5: Spillage of oil and chemicals *

Table 5a: Number of oil spills, 2005-2014 - Spills less than 1 tonne (≤ 1 T) and spills above 1 tonne (> 1 T)

Country	2005		2006		2007		2008		2009		2010		2011		2012		2013		2014	
	≤ 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 [(1)]	44	1	46	0	30	1	24	2	23	2	21	0	30	0	42	0	47	1	74	3
Germany	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	3	0	3	0	1	0	0	0	1	0	1	0	4	0	1	0	0	0
Netherlands	25	0	25	0	35	0	20	1	14	1	34	0	13	1	12	0	10	0	17	0
Norway[(2)]	141	6	115	7	155	12	164	9	142	4	133	7	129	1	118	4	112	5	60	8
Spain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
United Kingdom[(3)]	428	10	305	8	270	9	262	8	291	8	265	6	270	9	239	6	299	9	404	6
Total	**638**	**17**	**494**	**15**	**493**	**22**	**471**	**20**	**470**	**15**	**454**	**13**	**443**	**11**	**415**	**10**	**469**	**15**	**555**	**17**

[(1)] Part of the Danish reports contain the reports on number of oil spills from Faroe Islands: for 2012, 1 spill.

[(2)] Norway - Reports m^3 rather than tonnes

[(3)]UK - UK quantity data excludes two incidents in 2011 and two incidents in 2012 which are still currently under investigation

* These data are taken from Table 5 in Part A

Part B: Cumulative Report

Table 5: Spillage of oil and chemicals *

Table 5b:Total quantity of oil spilled, in tonnes, 2005-2014

Country	2005		2006		2007		2008		2009	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark	3	3	4	0	2	30	2	99	2	4
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0,04	0	0,2	0	0,004	0	0	0
Netherlands	0,2	0	0,7	0,0	1,2	0	0,7	3,0	0,6	22
Norway[(1)]	13	303	10	95	10	3 805	7,5	156	8	88
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	38	39	23	40	12	47	17	20,25	15,0	39,1
Total	**54**	**345**	**38**	**135**	**25**	**3 882**	**27**	**278**	**26**	**154**

Country	2010		2011		2012		2013		2014	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark	2	0	1	0	2	0	0	3	2	43,0
Germany	0	0	0	0	0	0	0	0	0	0,0
Ireland	0,001	0	0,01	0	0,8	0	0,001	0	0	0
Netherlands	0,1	0	0,1	1,1	0,4	0	0,7	0	0,3	0
Norway[(1)]	6	105	8,7	10	7,0	9	6,2	34	9,4	134,0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom [(2)]	9,8	13,6	12,8	29,1	11,4	90,0	17,3	74,0	22,5	18,8
Total	**18**	**119**	**23**	**40**	**22**	**99**	**24**	**111**	**34**	**196**

[(1)] Norway - Reports m^3 rather than tonnes.

[(2)] UK - UK quantity data excludes two incidents in 2011 and two incidents in 2012 which are still currently under investigation.

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

Part B: Cumulative Report

Table 5: Spillage of oil and chemicals *

Table 5c: Number of chemical spills, 2012-2014 - Spills less than 1 tonne (≤ 1 T) and spills above 1 tonne (> 1 T)

Country	2012		2013		2014	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark [1]	26	0	36	4	28	2
Germany	0	0	0	0	0	0
Ireland	1	0	2	1	0	0
Netherlands	7	1	6	1	16	3
Norway[2]	110	38	126	31	203	19
Spain	0	0	0	0	0	0
United Kingdom[3]	224	48	169	48	182	34
Total	**368**	**87**	**339**	**85**	**429**	**58**

[1] Part of the Danish reports contain the reports on number of oil spills from Faroe Islands: for 2012, 1 spill.

[2] Norway - Reports m^3 rather than tonnes.

[3] UK - UK data excludes one incident in 2012 and one incident in 2013 which are still currently under investigation.

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

Part B: Cumulative Report

Table 5: Spillage of oil and chemicals *

Table 5d: Total quantity of chemical spills, in tonnes, 2012-2014

Country	2012		2013		2014	
	≤ 1 T	> 1 T	≤ 1 T	> 1 T	≤ 1 T	> 1 T
Denmark[(1)]	1	0	2	26	2	9
Germany	0	0	0	0	0	0
Ireland	<0,001	0	0,1	5,1	0	0
Netherlands	0,9	1,2	13,3	7,7	0,2	3,9
Norway[(2)]	15,4	350	18,4	1 267	22,0	736
Spain	0	0	0	0	0	0
United Kingdom[(3)]	32,4	804	29,4	475	41,3	280
Total	**50**	**1155**	**63**	**1781**	**66**	**1029**

[(1)] Part of the Danish reports contain the reports on number of oil spills from Faroe Islands: for 2012, 1 spill.

[(2)] Norway - Reports m^3 rather than tonnes.

[(3)] UK - UK data excludes one incident in 2012 and one incident in 2013 which are still currently under investigation.

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

Part B: Cumulative Report

Table 5e: Total of dispersed oil discharged and oil spilled to the sea, in tonnes

Year: 2005-2014

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark	452	389	418	481	346	216	166	118	181	207
Germany	0,20	0,01	0,21	0,11	0,2	0,2	0,3	0,4	0,2	0,10
Ireland	0,02	0,09	0,23	0,42	0,01	0,03	0,03	0,80	0,00	0,03
Netherlands	108	114	157	144	131	83	57	76	61	38
Norway[(1)]	3 149	2 484	5 441	1 791	1 639	1 601	1 548	1 609	1 635	1948
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	5 047	4 420	3 019	3 198	2 954	3 031	2 535	2 369	2 267	2038
Total	**8 756**	**7 407**	**9 035**	**5 614**	**5 070**	**4 931**	**4 307**	**4 173**	**4 144**	**4 231**

[(1)] Norway - Data for spills are supplied in m^3.

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

Table 6: Emissions to air, 2005-2014*

CO_2 (in million of tonnes)

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[1]	2,10	2,12	2,11	2,07	2,20	1,94	1,76	1,84	1,78	1,77
Germany	0,06	0,05	0,06	0,04	0,04	0,05	0,05	0,05	0,05	0,04
Ireland	0,06	0,06	0,06	0,09	0,04	0,05	0,05	0,05	0,06	0,04
Netherlands	1,33	1,29	1,39	1,40	1,49	1,39	1,54	1,96	2,43	2,27
Norway	11,87	11,56	11,07	13,77	12,44	12,00	12,28	12,44	11,57	12,06
Spain	0,06	0,04	0,04	0,05	0,00	2,00	0,001	0,001	0,001	0,001
United Kingdom	18,21	16,41	16,96	15,60	15,44	15,00	14,02	13,08	13,17	12,59
Total	**34**	**32**	**32**	**33**	**32**	**32**	**30**	**29**	**29**	**29**

NO_x (in thousand of tonnes)

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[1]	6,80	8,10	8,90	8,50	8,10	7,00	6,32	7,22	7,28	7,81
Germany	0,14	0,04	0,03	0,05	0,05	0,05	0,04	0,08	0,05	0,04
Ireland	0,15	0,27	0,25	0,52	0,12	0,21	0,16	0,18	0,58	0,14
Netherlands	3,81	3,86	4,00	3,80	4,17	3,70	5,27	4,97	5,22	4,17
Norway	54,40	54,35	54,00	51,00	50,00	50,00	51,49	50,44	50,45	51,78
Spain	0,13	0,08	0,01	0,11	0,01	0,00	0,01	0,01	0,01	0,01
United Kingdom	59,00	52,00	52,00	52,30	49,50	53,00	47,49	47,01	46,40	46,07
Total	**124**	**119**	**119**	**116**	**112**	**114**	**111**	**110**	**110**	**110**

nmVOCs (in thousands of tonnes)

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[1]	3,00	2,10	2,00	2,25	2,00	2,61	1,22	1,89	1,77	2,17
Germany	0,29	0,68	0,22	0,12	0,12	0,12	0,30	0,39	0,14	0,15
Ireland	0,001	0,10	0,01	0,04	0,001	0,05	0,003	0,00	0,02	0,00
Netherlands	3,74	3,69	4,00	4,68	5,00	4,16	4,12	3,23	5,14	3,67
Norway[2]	93,50	79,54	73,00	50,00	45,61	37,00	30,58	33,02	32,76	48,18
Spain	0,13	0,08	0,10	0,11	0,00	0,00	0,01	N/D	0,01	0,01
United Kingdom	49,00	51,00	54,00	40,67	41,30	33,30	35,43	37,96	38,08	38,10
Total	**150**	**137**	**133**	**98**	**94**	**77**	**72**	**76**	**78**	**92**

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

[1] Part of the Danish reports contains the reports on the emissions to air from Faroe Islands: For 2006: 11 000 tonnes of CO_2, 250 tonnes of NOx, 18 tonnes of nmVOC; For 2008: 10 000 tonnes of CO_2, 10 tonnes of NOx, 0,2 tonne of nmVOC; For 2010: 16 000 tonnes of CO_2, 14 tonnes of NOx, 0,3 tonne of nmVOC. For 2012, 15 000 tonnes of CO_2, 0,5 tonne of No_x, 0,002 tonne of nmVOC. For 2014: 6000 tonnes of CO_2, 130 tonnes of NO_x, 9 tonnes of nmVOCs.

[2] Norway: there was a substantial reduction the last years due to nmVOC recovery requirements on tankers. The Norwegian emissions of CH_4 which were reported for 2009 and 2010 and were incorrect. Therefore the figures presented here do not agree with the reports from these two years.

Part B: Cumulative Report

Table 6: Emissions to air, 2005-2014* (cont'd)

CH_4 (in thousand of tonnes)

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[(1)]	1,00	1,50	2,00	3,00	3,00	4,96	3,19	4,11	4,01	3,72
Germany	1,16	3,23	1,06	0,54	3,13	1,34	0,55	0,72	0,24	0,29
Ireland	0,29	2,63	0,79	0,58	0,01	0,00	0,01	0,00	0,01	0,36
Netherlands	12,34	12,06	14,00	15,97	14,48	13,04	12,41	9,67	14,33	12,74
Norway[(2)]	29,30	26,20	25,20	31,00	29,63	28,04	28,58	25,66	23,47	28,25
Spain	0,39	0,31	0,40	0,43	0,00	0,00	0,11	0,14	0,12	0,12
United Kingdom	41,00	37,00	48,00	41,57	45,30	47,90	44,86	44,12	45,69	43,08
Total	**85**	**83**	**91**	**93**	**96**	**95**	**90**	**84**	**88**	**89**

SO_2 (in tonnes)

Country	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[(1)]	230	230	220	200	100	112,0	86,0	92,0	116	145
Germany	2,0	1,0	0,0	0,40	0,20	0,0	0,0	4,0	0,5	0,3
Ireland	0,8	10,0	14,6	11,80	1,77	6,0	6,9	1,4	29	3
Netherlands	136	170	200	135	103	112	133	253	350	290
Norway	700	696	700	500	500	600	899	822	914	862
Spain	0,3	0,8	0,0	0,41	0,0	0,0	N/D	N/D	N/D	N/D
United Kingdom	3 000	2 570	1 740	3 290	2 170	2 600	1 923	2 561	2 208	2 241
Total	**4 069**	**3 678**	**2 875**	**4 138**	**2 875**	**3 430**	**3 048**	**3 733**	**3 617**	**3 540**

[(1)] Part of the Danish reports contains the reports on the emissions to air from Faroe Islands: For 2006: 8 tonnes SO_2; For 2008: 0,2 tonne CH_4. and 3 tonnes SO_2; For 2010: 0,3 tonne CH_4 and 5 tonnes SO_2. For 2012, 0,005 tonne of SO_2; For 2014: 2 tonnes of SO_2.

[(2)] The Norwegian emissions of CH4 which were reported for 2009 and 2010 were incorrect. Therefore the figures presented here do not agree with the reports from these two years.

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

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

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [1]	41 208 531	78 932 552	66 356 341	55 035 267	45 732 541	32 364 501	31 661 190	34 759 511	26 031 851	32 965 260
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	2 138 463	716 405	710 225	503 527	2 425	1 565 002	478	252 562	1 387	1 522 980
Ireland	9 287	1 549 666	3 876 616	6 274 318	1 020 082	1 904 711	836 841	936 836	2 783 230	878 846
Netherlands	35 701 161	36 984 151	27 052 063	27 200 803	29 127 105	41 713 369	36 110 148	46 550 994	34 616 138	42 614 129
Norway	228 476 000	227 536 000	253 122 000	259 360 628	289 681 616	286 277 021	273 273 649	282 848 186	346 516 261	322 304 630
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	271 496 796	243 677 347	294 780 970	252 351 135	255 518 585	188 510 604	155 542 997	189 057 474	207 602 076	185 467 972
Total	**579 030 238**	**589 396 121**	**645 898 215**	**600 725 678**	**621 082 354**	**552 335 208**	**497 425 302**	**554 405 563**	**617 550 942**	**585 753 816**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [2]	28 296 022	37 853 418	30 919 208	31 370 942	24 603 595	11 838 770	13 966 161	12 334 663	7 978 977	8 694 006
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	1 036 263	347 565	342 003	503 282	2 220	1 059 928	478	6 573	1 275	130 691
Ireland	2 566	1 040 761	1 660 002	4 203 349	125 905	754 568	423 274	604 132	1 040 237	673 680
Netherlands	12 104 182	15 093 836	8 191 288	12 878 422	8 989 344	17 462 642	12 281 563	17 441 780	16 144 242	18 269 435
Norway	56 370 000	63 424 400	73 624 000	76 539 183	111 268 937	111 268 937	99 503 072	104 495 858	114 256 578	107 667 490
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	117 027 290	102 846 899	104 733 835	110 746 879	113 184 172	69 422 728	52 216 290	56 070 241	70 139 373	58 222 340
Total	**214 836 323**	**220 606 879**	**219 470 336**	**236 242 057**	**258 174 174**	**211 807 573**	**178 390 838**	**190 953 247**	**209 560 682**	**193 657 642**

* 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, udpate 2008).

[1] Part of the Danish report contains the report on the use of offshore chemicals from Faroe Islands: For 2006: 1 819 321 kg; For 2008: 2 202 480 kg; For 2010: 1 145 498 kg. For 2012: 3007 003 kg; For 2014: 977583 kg.

[2] Part of the Danish reports contains the reports on the discharge of offshore chemicals from Faroe Islands: For 2006: 810 434 kg; For 2008: 1 670 557 kg; For 2010: 1 057 980 kg. For 2012: 1 103 867 kg; For 2014: 654086 kg.

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.

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

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

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [1]	12 738 121	16 361 467	7 996 987	14 435 908	11 660 616	3 992 862	2 207 877	1 663 514	1 386 349	2 367 795
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	0	0	0	0	0	33 406	0	77	0	450
Ireland	0	0	2 252	745	138	3 944	0	0	53 685	0
Netherlands	1 916 271	3 066 667	367 282	815 948	817 256	277 442	784 501	459 251	309 021	950 654
Norway [3]	2 671 000	2 654 000	1 860 000	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	73 409	949 303	2 326 787	4 150 103	1 657 961	2 478 527	1 181 268	2 313 743	3 146 799	2 116 846
Total	**17 398 801**	**23 031 437**	**12 553 308**	**19 402 704**	**14 135 971**	**6 786 181**	**4 173 646**	**4 436 585**	**4 895 854**	**5 435 745**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [2]	138 620	408 828	169 353	1 484 608	431 845	304 808	146 321	123 525	142 595	522 361
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	0	0	0	0	0	2 408	0	53	0	0
Ireland	0	0	870	545	110	2 207	0	0	4 697	0
Netherlands	172 416	364 578	179 066	169 047	105 070	112 448	41 875	79 976	50 794	81 835
Norway [3]	137 000	126 000	143 000	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	64 902	376 830	483 930	594 504	594 504	676 648	439 121	384 226	858 274	463 057
Total	**512 938**	**1 276 236**	**976 219**	**2 248 704**	**1 131 529**	**1 098 519**	**627 317**	**587 780**	**1 056 360**	**1 067 253**

* No data submitted prior to 2004.

[1] Part of the Danish reports contains the report on the use of offshore chemicals from Faroe Islands: For 2008: 178 401 kg; For 2014: 183 977 kg.

[2] Part of the Danish reports contains the reports on the discharge of offshore chemicals from Faroe Islands: For 2008: 168 270 kg; For 2014: 167 804 kg.

[3] Norway - "Inorganic, LC50 or EC50 >1 mg/l" is included in "Ranking".

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

Table 7c: Quantity of ranking substances used and discharged in kg/year*

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[(1)]	14 093 489	1 378 038	12 049 738	14 703 054	15 792 136	13 063 744	13 381 005	19 425 435	12 589 045	15 614 440
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	387282	127 403	124 599	4 333	2 993	2 318	1 527	3 690	4 471	60 926
Ireland	0	150 115	151 051	722 136	358 021	572 265	12 992	88 555	1 509	20 915
Netherlands	2 809 975	5 490 597	5 443 977	7 572 521	6 388 029	9 901 488	11 563 870	12 289 133	8 731 380	12 819 428
Norway [(3)]	82 626 000	87 938 000	93 313 000	95 347 550	92 409 851	103 061 375	80 140 772	82 880 656	204 629 459	194 465 840
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	44 840 086	100 831 149	100 834 384	78 776 917	75 977 678	70 401 312	63 098 455	69 690 462	79 106 416	78 631 851
Total	**144 756 832**	**195 915 302**	**211 916 749**	**197 126 511**	**190 928 708**	**197 002 502**	**168 198 621**	**184 377 931**	**305 062 281**	**301 613 400**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[(2)]	3 223 911	4 500 119	4 629 994	3 833 698	4 987 546	1 510 103	4 505 310	4 758 740	5 154 321	4 793 565
France	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Germany	41275	11 223	3 659	52	0	0	24	349	12	1 174
Ireland	0	110 604	61 016	242 717	1 827	8 752	8 534	24 555	1 509	15 577
Netherlands	193 412	254 341	263 184	435 387	584 237	694 870	819 255	955 649	595 553	578 461
Norway[(3)]	10 103 000	10 952 000	11 880 000	12 956 914	14 700 303	11 727 338	12 304 885	13 532 911	52 507 255	59 137 480
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	14 056 179	13 144 219	13 866 642	13 596 227	12 074 628	11 446 089	10 005 461	10 609 116	10 341 731	10 074 380
Total	**27 617 777**	**28 972 506**	**30 704 495**	**31 064 995**	**32 348 540**	**25 387 152**	**27 643 469**	**29 881 320**	**68 600 380**	**74 600 637**

*Includes substances ranked according to OSPAR Recommendation 2000/4 and which do not fulfill the criteria of tables 7 a, b, d, e, f, g

[(1)] Part of the Danish report contains the report on the use of offshore chemicals from Faroe Islands: For 2006: 120 906 kg; For 2010: 265 277 kg. For 2012: 486 757 kg; For 2014: 74 135 kg.

[(2)] Part of the Danish reports contains the reports on the discharge of offshore chemicals from Faroe Islands: For 2006: 54 581 kg; For 2010: 113 804 kg. For 2012: 55 910 kg; For 2014: 72 365 k

[(3)] For Norway these figures include inorganic chemicals having a LC50 or a EC50 > 1mg/l.

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

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

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [1]	0	0	0	10	0	0	0	0	0	0
France	0	0	0	0	0	0	N/A	N/A	N/A	N/A
Germany	0	0	0	0	0	1 273	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	2	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	2 505	1 094	497	146	20	6	0	3	6	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	2 505	1 896	2 128	3 773	1 267	974	783	440	496	108
Total	**5 010**	**2 990**	**2 625**	**3 929**	**1 287**	**2 253**	**783**	**443**	**504**	**108**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [2]	0	0	0	1	0	0	0	0	0	0
France	N/A	N/A	0	0	0	0	N/A	N/A	N/A	N/A
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	30	213	1	0	58	0	0	3	6	0
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	191	141	69	42	89	21	9	0	0	0
Total	**221**	**354**	**70**	**43**	**147**	**21**	**9**	**3**	**6**	**0**

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

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

Table 7e: Quantity of inorganic substances with LC50 or EC50 < 1 mg/l, used and discharged in kg/year

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [1]	8 115	12 550	9 950	10 502	8 550	0	0	0	0	0
France	0	0	0	0	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	8	400	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	1 000	0	20	0	53	0	0	30	92	120
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	10 333	1 510	910	1 720	856	1 155	365	1 848	253	546
Total	**19 448**	**14 060**	**10 880**	**12 222**	**9 459**	**1 155**	**365**	**1 886**	**746**	**666**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark [2]	54	117	250	2	0	0	0	0	0	0
France	0	0	0	0	0	0	0	0	0	0
Germany	0	0	0	0	0	0	0	0	0	0
Ireland	0	0	0	0	0	0	0	1	0	0
Netherlands	0	0	0	0	0	0	0	0	0	0
Norway	0	0	1	0	0	0	0	21	0	30
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	10 306	1 440	864	1 596	0	137	345	1 643	90	79
Total	**10 360**	**1 557**	**1 115**	**1 598**	**0**	**137**	**345**	**1 665**	**90**	**109**

Part B: Cumulative Report

Year: 2005-2014

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

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[1]	894 141	582 599	302 503	766 936	515 528	538 181	178 803	351 620	110 595	168 585
France	0	0	0	0	0	0	0	0	0	0
Germany	4100	1516	1 400	0	5 906	6 932	0	0	0	19 570
Ireland	0	0	12 319	8 730	3 498	22 790	0	300	2 275	6
Netherlands	3 433 667	885 546	3 173 171	303 012	162 510	244 482	349 002	231 545	150 205	203 370
Norway	3 066 300	2 935 500	3 024 000	3 141 149	2 144 671	2 386 670	1 493 063	1 287 072	1 636 733	1 820 950
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	7 244 942	6 419 857	3 974 251	3 156 299	2 581 413	1 924 708	2 881 197	1 784 069	2 042 658	1 644 336
Total	**14 643 150**	**10 825 018**	**10 487 644**	**7 376 126**	**5 413 526**	**5 123 763**	**4 902 065**	**3 654 606**	**3 942 466**	**3 856 817**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[2]	106 127	92 047	44 682	56 457	1 061	7 852	4 244	357	42	360
France	0	0	0	0	0	0	0	0	0	0
Germany	4 100	1 458	1 400	0	37	750	0	0	0	1 898
Ireland	0	0	651	0	0	64	0	100	11	6
Netherlands	42 716	35 123	6 179	5 775	19 730	19 179	4 542	3 627	913	1 094
Norway	62 270	18 661	13 900	10 515	16 318	14 455	6 403	3 600	2 957	5 220
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	1 889 783	1577219	660 055	661 647	608 549	404 545	375 566	305 385	576 846	345 846
Total	**2 104 996**	**1 724 508**	**726 867**	**734 394**	**645 695**	**446 845**	**390 754**	**313 068**	**580 769**	**354 424**

Part B: Cumulative Report

Table 7: The use and discharge of offshore chemicals

Year: 2005-2014

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

Country	Quantity of chemicals used (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[1]	1 322 226	1 066 216	575 771	459 550	231 350	270 566	284 938	161 457	31 930	17 654
France	0	0	0	0	0	0	0	0	0	0
Germany	2 631 107	878 855	879 156	6 972	0	0	6 355	5 582	0	24 437
Ireland	0	13 241	604 258	35 612	1 271	3 340	3 317	3 400	815 176	107
Netherlands	8 972 101	5 291 265	2 533 475	185 157	979 280	770 136	1 566 448	452 277	531 900	116 197
Norway	3 428 700	2 761 900	2 363 000	1 182 315	1 061 115	506 942	348 519	1 506 167	1 326 315	1 351 210
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	4 630 943	1505806	6 056 927	2 712 894	3 142 275	2 862 101	2 685 217	2 370 810	2 826 647	2 204 106
Total	**20 985 077**	**11 517 283**	**13 012 587**	**4 582 500**	**5 415 291**	**4 413 085**	**4 894 794**	**4 499 693**	**5 531 968**	**3 713 711**

Country	Quantity of chemicals discharged (kg)									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark[2]	319 223	193 506	76 655	57 512	360	15 020	341	0	0	0
France	0	0	0	0	0	0	0	0	0	0
Germany	9 316	50	50	0	0	0	0	0	0	0
Ireland	0	4 364	880	3 693	391	0	2 917	730	2 945	34
Netherlands	16 560	13 811	10 182	28 462	37 089	57 636	13 976	22 960	23 195	16 642
Norway	33 985	23 450	9 900	4 579	5 152	1 584	1 710	5 018	3 399	9 040
Spain	0	0	0	0	0	0	0	0	0	0
United Kingdom	1 399 510	631877	1 234 498	918 515	1 046 561	930 855	738 516	648 520	896 187	646 476
Total	**1 778 594**	**867 058**	**1 332 165**	**1 012 761**	**1 089 553**	**1 005 095**	**757 459**	**677 228**	**925 726**	**672 192**

* 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.

[1] Part of the Danish report contains the report on the use of offshore chemicals from Faroe Islands: For 2006: 16 kg; For 2010: 15 400 kg.

[2] Part of the Danish reports contains the reports on the discharge of offshore chemicals from Faroe Islands: For 2006: 2 kg; For 2010: 14 717 kg.

Table 7h: Quantity of chemicals spilled[a] in kg per year, 2006 - 2014

Prescreening category	2006	2007	2008	2009	2010	2011	2012	2013	2014
PLONOR	559 929	1 000 374	895 579	7 251 474	1 001 352	620 711	418 722	1 201 718	703 121
List of Chemicals for Priority Action	6	0	0	1 600	0	0	0	0	0
Inorganic LC_{50} or EC_{50} < 1 mg/l	0	0	0	0	863	0	72	0	360
Biodegradation < 20%	2 725	7 119	12 800	353 271	2 123	1 590	1 194	9 017	3 361
Substance meets two of three criteria	11 259	30 516	1 980	244	31 129	1 250	14 356	3 016	3 573
Inorganic, LC_{50} or EC_{50} > 1 mg/l	90	77	1 661	3 217	108	328	548	462	171
Ranking	158 470	125 649	163 063	6 330 759	250 475	132 615	61 804	1 174 629	220 038
Total	**732 479**	**1 163 735**	**1 075 083**	**13 940 565**	**1 286 050**	**756 494**	**496 696**	**2 388 842**	**930 623**

a. All chemical spilled, including those related to accidental spillage of drilling fluids.

Calculate the amount of substances on the basis of §1.6 of Appendix 1 of OSPAR Recommendation 2000/5 on a Harmonised Offshore Chemical Notification Format (HOCNF), including its updates.

Important! To avoid double reporting, the first appropriate category for the substance shall be chosen. This means that the PLONOR substances are chosen first, and the ranking substances are chosen last.

Part B: Cumulative Report

Table 8: Discharges of radioactive substances in produced water in terabecquerel (TBq), 2006-2014

	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total alpha	6,9	7,41	6,76	7,4	7,6	7,6	8	6,5	6,1
Total beta	4,67	4,94	4,54	5,02	4,94	5,03	5,2	4,34	4,1

The calculations for alpha and beta are estimates of activities discharged, rather than a measured value.
More information on this data is available in the OSPAR Report on discharges of radionuclides from the non-nuclear sectors.

Part B: Cumulative Report

Table 9: Total production in oil equivalents, (toeq)

Year: 2005-2014

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Denmark	28 349 771	25 654 788	25 034 608	25 654 788	21 136 996	19 428 193	17 757 812	16 290 666	13 674 575	13 035 469
Germany	1 024 948	1 890 000	1 724 604	1 468 139	1 323 703	1 142 193	1 245 520	1 129 230	1 158 020	1 099 947
Ireland	592 617	514 683	301 455	524 423	392 584	408 678	361 130	367 540	336 618	332 647
Netherlands	20 380 637	17 752 641	19 051 921	19 601 935	17 931 997	16 562 387	17 160 297	17 147 270	18 176 106	14 725 986
Norway	245 262 000	233 976 120	231 697 250	249 282 000	246 686 000	213 000 000	170 723 267	170 552 545	161 574 251	161 363 160
Spain	119 660	37 693	6 628	6 862	0	41 176	39 044	58 115	40 269	16 337
United Kingdom	164 000 000	149 000 000	143 000 000	134 900 000	121 700 000	125 612 217	99 391 433	86 480 357	78 304 262	78 229 908
Total	**459 729 633**	**428 825 925**	**420 816 466**	**431 438 147**	**409 171 280**	**376 194 844**	**306 678 503**	**292 025 723**	**273 264 101**	**268 803 454**

OSPAR COMMISSION

Victoria House
37-63 Southampton Row
London WC1B 4DA
United Kingdom

t: +44 (0)20 7430 5200
f: +44 (0)20 7242 3737
e: secretariat@ospar.org
www.ospar.org

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ISBN: 978-1-911458-12-8
Publication Number: 682