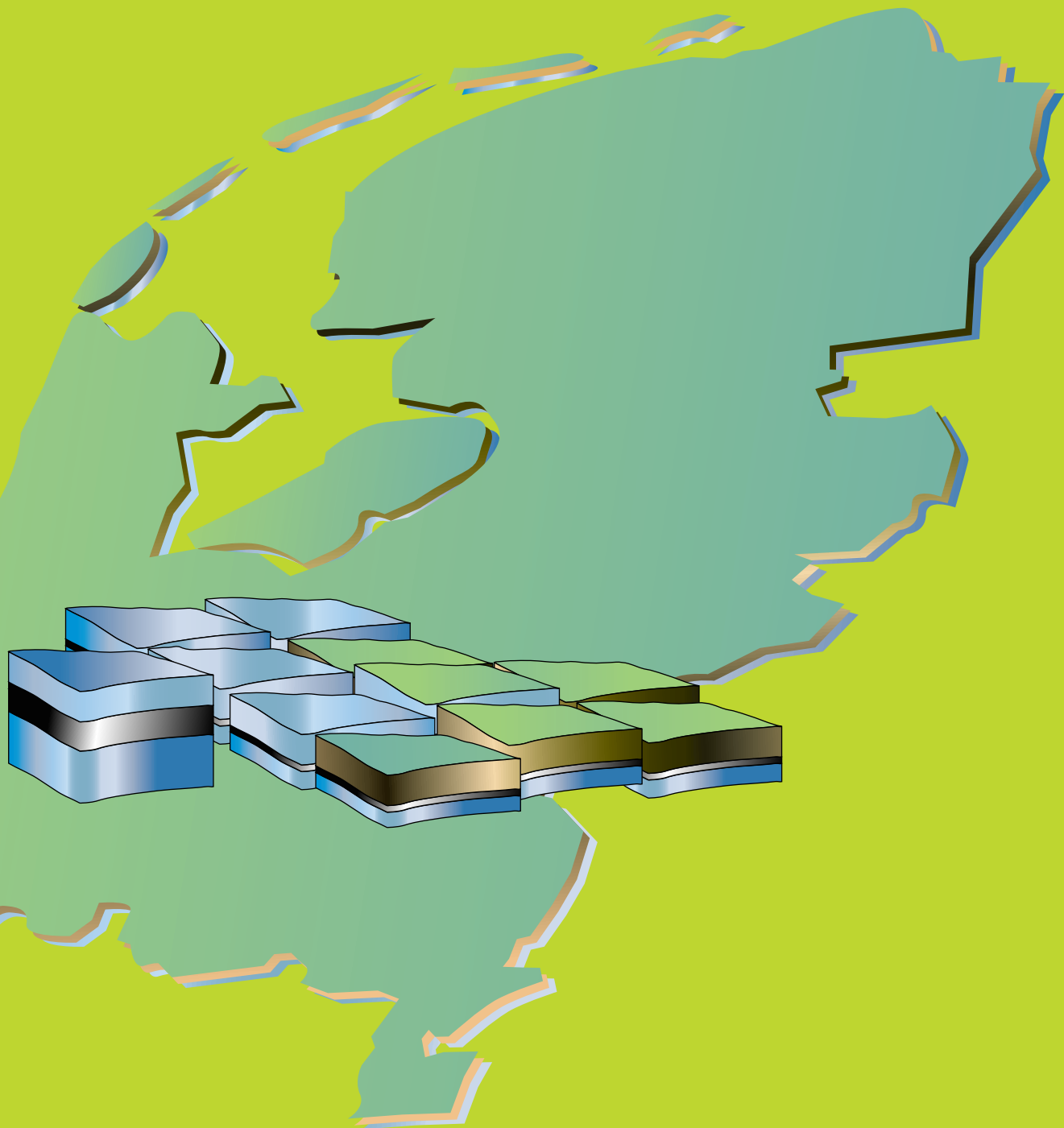


Oil and gas in the Netherlands

Exploration and production 2005 and prognoses 2006-2015



OIL AND GAS IN THE NETHERLANDS

Annual review 2005 and prognosis 2006- 2015

A review of oil and gas exploration and production activities during 2005 and a prognosis for the period 2006-2015.

Revised August 2006

The Hague, May 2006

Preface

The annual review ‘Oil and Gas in the Netherlands’ reports on the activities and results of the exploration and production of hydrocarbons in the Netherlands and the Dutch sector of the Continental Shelf during the year 2005. In addition, a prognosis for the expected gas production is presented for the period 2006 – 2015.

This review comprises an overview of activities related to natural gas and of the existing and future underground storages for natural gas as referred to in article 125 of the Mining Act. In accordance with the provisions of article 125 of the Mining Act the annual review will be presented to both Chambers of the Dutch Parliament on behalf of the Minister of Economic Affairs.

The first section of the report deals with *developments* in the exploration and production of hydrocarbons in the Netherlands and the Dutch sector of the Continental Shelf during the year 2005. This section first presents details of changes in natural gas and oil resources during 2005 and the way these changes affected the situation as at 1 January 2006.

Subsequently, a number of tables summarise developments during 2005, with respect to licences and exploration efforts (seismic surveys and wells drilled). This section ends with a summary of the volumes of natural gas, condensate and oil that were produced in 2005.

The second section of the annual review comprises a large number of annexes that report on the *current situation* as well as on historical developments during the past decades.

Finally, several maps outline the state of the affairs as at 1 January 2006.

This review has been compiled by TNO (*National Geological Survey*), at the request of the Energy Market Directorate of the Directorate General for Energy and Telecom of the Dutch Ministry of Economic Affairs. Key data have been provided by the Ministry of Economic Affairs (Dutch acronym: EZ for Ministerie van Economische Zaken), TNO – *National Geological Survey* and the State Supervision of Mines (Dutch acronym: SodM for Staatstoezicht op de Mijnen).

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The Hague, May 2006

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In this annual review, natural gas and oil volumes are stated in terms of 'standard' m³, usually abbreviated as Sm³.
'Standard' relates to the reference conditions: 15° C and 101.325 kPa.

In some cases the natural gas volumes are stated in terms of Groningen Gas Equivalent, which has a gross calorific value of 35.17 MJ/ m³ at 0° C and 101.325 kPa. In such cases this is explicitly stated in the text.

KEY DATA 2005

The summary below briefly outlines data that are detailed elsewhere in this annual review.

Natural gas and oil resources

The natural gas reserves as at 1 January 2006 are estimated at 1032 billion Sm³ for the Groningen accumulation, 149 billion Sm³ for the other onshore accumulations and 225 billion Sm³ for the Continental Shelf. Total reserves add up to 1510 billion Sm³.

Oil reserves add up to 36 million Sm³, 23 million Sm³ of which are located in the onshore territory and 13 million Sm³ on the Continental Shelf.

Licences

In 2005 two exploration licences and one production licence (Oosterwolde) for the onshore territory were applied for. In addition, one storage licence was applied for. This concerns storage in a depleted gas field (Waalwijk). For the Continental Shelf, thirteen exploration licences were applied for, three have been awarded and two lapsed. Four exploration licences have been subdivided, while two were merged. As for production licences, one production licence has been submitted (P 8), seven have been awarded and one application has been withdrawn. For details see chapters 3 and 4 and annexes 1 and 2.

Wells

A total of 19 wells have been drilled for oil and gas. That is two less than in 2004. In 2005 seven exploration wells have been drilled. From these wells, five struck gas, a technical success ratio of 71%. The remaining wells included one appraisal well and eleven production wells. For details see chapter 7 and annex 2.

Gas production

In 2005, total gross production from Dutch gas fields was 73 billion Sm³ of which 37 billion Sm³ was accounted for by the small fields. Onshore gas fields accounted for 48 billion Sm³ which is the same as in 2004. Production from the offshore gas fields decreased by 4 billion Sm³ to 25 billion Sm³, a decrease of 16%. For details see chapter 9.

Oil production

In 2005, a total of 1.83 million Sm³ of oil was produced in the Netherlands, which is 0.64 million Sm³, or 26% less than in 2004. The onshore accumulations produced 0.34 million Sm³, a decrease of 12% compared to 2004. Production from offshore oil fields decreased by 28% to 1.49 million Sm³. The average oil production over 2005 was approximately 5 000 Sm³ per day, which is equivalent to approximately 31 450 barrels per day. For details see chapter 9.

1. NATURAL GAS RESOURCE AND FUTURE GAS SUPPLY FROM WITHIN THE NETHERLANDS

INTRODUCTION

The natural gas resource represents a major economic asset for the Kingdom of the Netherlands. The present chapter reports on the natural gas resource in the Netherlands and the Netherlands part of the Continental shelf. First it presents estimates of the natural gas resource as at 1 January 2006 and changes compared to 1 January 2005. A brief explanation of the method used for determining the natural gas resource is given below. Subsequently, this section on the supply of natural gas in the Netherlands presents the national gas production expected for the next ten years.

In accordance with the Mining Act the operators annually report reserve estimates for developed accumulations as well as a ten year production prognoses (Mining decree, article 113). This chapter is based on these figures.

RESOURCE

The natural gas resource is defined as the volume of natural gas that can be produced from the subsurface of the Netherlands. In this respect, we distinguish *discovered resources* and (as yet) *undiscovered resources*. The *discovered resources* are producible volumes of natural gas that are present in *proven accumulations*, i.e. proven gas fields. Many of these accumulations have been developed already (are producing) and as a result only part of the ‘gas initially in place’ remains. The remaining producible volumes of natural gas in the proven accumulations are defined as the *remaining reserves*.

Not all the gas that is present in the subsurface of the Netherlands has been found as yet. On the basis of geological information, TNO has prepared an estimate of the additional volume of gas that may statistically be present; this is called the *exploration potential*, also called the ‘prospectivity’.

DISCOVERED RESOURCES

There are 392 proven natural gas accumulations in the Netherlands (table 1). At present, the majority of these accumulations is developed (191), i.e. producing (188) or operational as gas-storage facilities (3). Of all accumulations that have ever been developed, 59 have ceased production. Of the 142 accumulations that have not been developed as yet, 39 are expected to start producing within 5 years. Whether the remaining 103 accumulations will ever be developed is uncertain.

All accumulations are listed in annex 1, sorted by status and stating operator and licence. In accordance with the new Mining Act, production plans or storage plans have been submitted for all developed accumulations.

Table 1. Number of proven natural gas accumulations sorted by status as at 1 January 2006

Status of accumulations	Onshore Territory	Continental Shelf	Total
I. Developed			
a. producing	82	106	188
b. gas-storage facility	3	0	3
II. Undeveloped			
a. start of production 2006-2010	19	20	39
b. others	43	60	103
III. Production ceased	25	34	59
Total	172	220	392

Changes in the number of gas accumulations compared to last year are mainly due to the gas producing oil fields which are not included anymore. Also the suspended gas fields have been included in the category ‘Ceased production’. 4 new gas discoveries were made in 2005 (table 5) and 8 new gas accumulations came on stream (table 2). The remaining changes in the table are revisions derived from new data supplied to the ministry in accordance with the provisions of the Mining Act

Table 2. Gas accumulations on stream since 2005.

Accumulations	Operator	Licence
's Gravenzande	NAM	Rijswijk
Geestvaartpolder	NAM	Rijswijk
Kollum	NAM	Noord-Friesland
Loon op Zand South	Wintershall	Waalwijk
D12-AW	Wintershall	D12a
K17-FA	NAM	K17
F16-E	Wintershall	F16

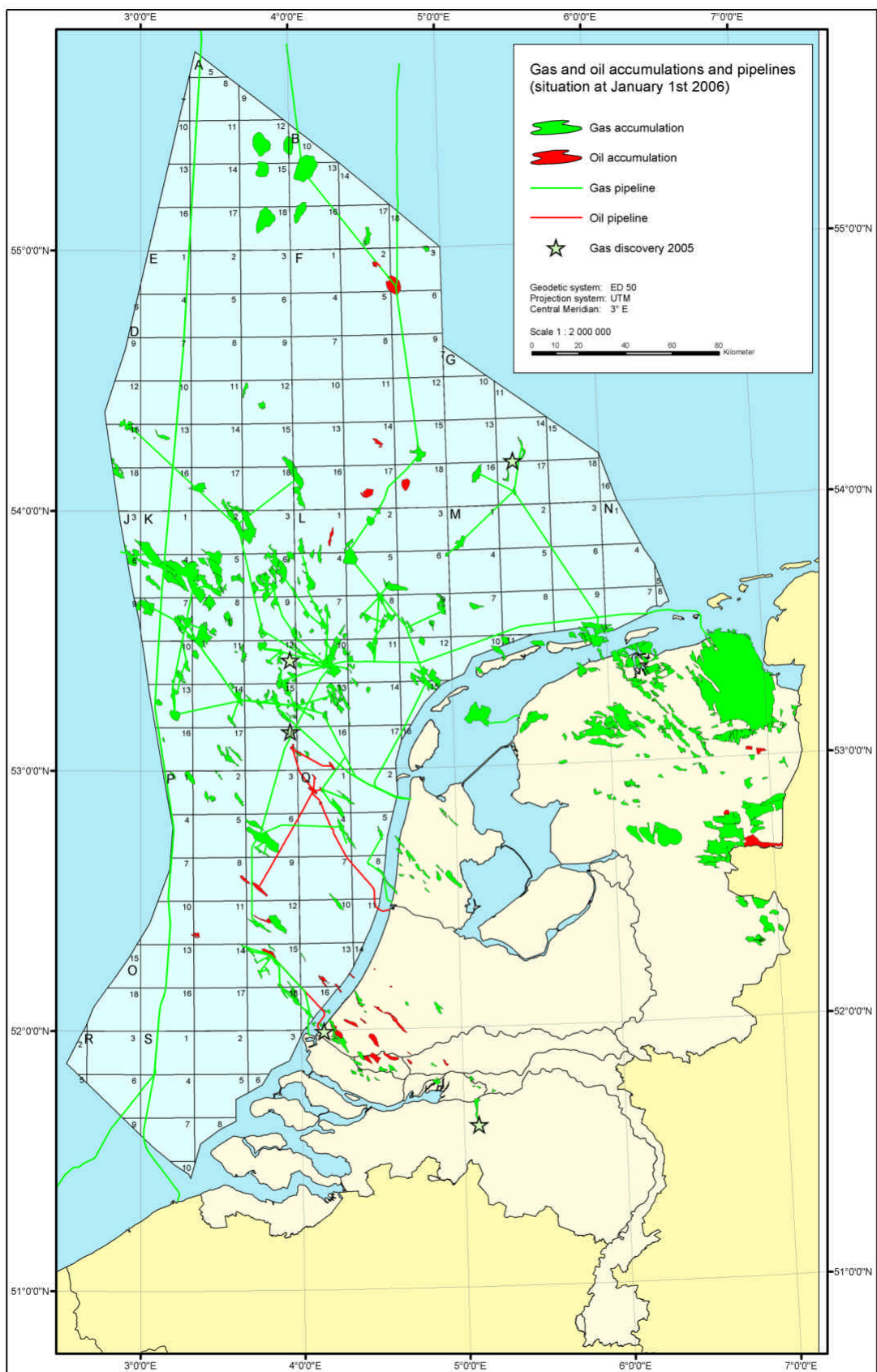


Figure 1. Outline map showing oil and gas accumulations in the Netherlands (as at 1 January 2006).

Resource estimates

For the present annual review, the information used has been made available by the operators in accordance with the provisions of the Mining Act. The approaches and reserve classifications used by individual operators may differ considerably. Therefore, the present annual report only presents a rough resource classification, related to the status of the individual accumulations.

Proven reserves as at 1 January 2006

Up to the annual review of 2002, a probabilistic approach was used to calculate proven reserves. In this definition, the probability that actual reserves would turn out to be higher than the figure stated used to be estimated at 90%. This type of probabilistic approach focused mainly on technical uncertainties.

The current reserve estimates for developed accumulations are based on the figures and information given by the operators in their production plans and annual reports and submitted in accordance with the Mining Act. For the other discovered accumulations, of which reserves are not yet included in production plans or annual reports, only preliminary reserve estimates are given. This approach considers the remaining reserves in developed accumulations as the most certain part of the reserves. After all, most of the capital investment necessary to produce these volumes has already been made and there are fairly definite plans for the further incremental development of these accumulations. This does not apply to the predicted production from the Groningen field after 2040, because in order to realise this production, significant capital investment will be necessary.

Although the above mentioned approach used to calculate reserves differs from that used prior to 2003 (the year that the Mining Act came into force), the old and new figures can be correlated if one considers that the reserves calculated on the basis of the operators' production plans and annual reports in fact are equivalent to the 'remaining proven reserves' of the old approach.

The reserves calculated on the basis of the operators' production plans and annual reports as at 1 January 2006 total 1032 billion Sm³ for Groningen and 224 billion Sm³ for the other accumulations (table 3a).

Table 3a. Gas resources in the Netherlands as at 1 January 2006 in billions of Sm³

Accumulations	Developed		Undeveloped	Total
		after 2040		
Groningen	1032	104	0	1136
Others Territory	87	19	43	149
Continental Shelf	137	0	88	225
Total	1256	123	131	1510

For the purpose of equating volumes of natural gas of different qualities in calculations, these volumes have been converted to Groningen Gas Equivalents (Geq) on the basis of calorific value (table 3b).

Table 3b. Gas resources in the Netherlands as at 1 January 2006 in billions of m³Geq

Accumulations	Developed		Undeveloped	Total
		after 2040		
Groningen	978	99	0	1077
Others Territory	92	20	45	156
Continental Shelf	143	0	89	232
Total	1213	117	134	1464

Developed accumulations

The figures for remaining reserves in developed accumulations are listed in two columns in the tables above. The first column shows the total remaining reserves reported in the operators' production plans and annual reports. The second column lists under the heading 'after 2040' the reserves that are not expected to be available for production prior to 2040. This concerns long-term production from the Groningen field (104 billion m³ or 99 Geq) and the remaining reserves that were still present in the Norg, Grijpskerk and Alkmaar accumulations, prior to these fields being converted to underground gas storage facilities (altogether some 19 billion m³ or 20 Geq). This 'rest gas' will only be produced once the fields are no longer used as storage facilities. This is not expected to happen prior to 2040.

Undeveloped accumulations

These figures concern proven accumulations, the development of which is deemed probable. This includes those accumulations that are expected to come on stream in the period 2006-2010, as well as some accumulations for which it is uncertain as yet when production will actually start (see listing of natural gas accumulations in annex 1). A part of this last group of accumulations (with status *Non developed/others* see table 1) may indeed have commercial potential, but future materialisation in terms of reserves greatly depends on advances in technology, infrastructure, costs and market prices. Furthermore, the reserve estimates do not take into account any limitations related to the accessibility of accumulations in connection with environmentally sensitive areas, e.g. the Dutch Wadden Sea area.

Revisions compared to 1 January 2005

The table below lists the revisions to the Dutch gas resource, resulting from

- new finds;
- re-evaluations of previously proven accumulations;
- production during 2005.

The net result is a reduction of the resource by 104 billion Sm³ compared to 1 January 2005. 73 billion Sm³ concerns production

Table 4. Revisions of expected gas resource compared to 1 January 2005, in billion Sm³

Area	New finds	Re-evaluations	Production	Total
Groningen field	0	0	-36	-36
Others Territory	5	-14	-12	-21
Continental Shelf	10	-33	-25	-47
Total	15	-46	-73	-104

New finds

The table below lists the gas accumulations that were found during 2005. The locations of the new finds are indicated by asterisks in Figure 1. According to preliminary estimates, these new finds will add approximately 15 billion Sm³ to the Dutch gas resource.

Table 5. Gas accumulations discovered in 2005

Name accumulation	Discovery well	Licence area	Operator
G14-C	G14-04	G14	Gaz de France
K12-17	K12-17	K12	Gaz de France
	K18-7-S1	K18	Wintershall
's Gravenzande	's Gravenzande-03 sidetrack 2	Rijswijk	NAM
Loon op Zand	Waalwijk South-02	Waalwijk	Wintershall

Revisions

Evaluation of both producing and non producing gas accumulations have resulted in an downward revision of 46 billion Sm³. In total this apparently is a large volume but it actually mainly consists of minor revisions in a large number of fields.

UNDISCOVERED RESOURCES: EXPLORATION POTENTIAL

The exploration potential is the producible volume that may be assumed to be present in as yet undiscovered accumulations in the subsurface of the Netherlands on the basis of geological information. Economic factors are not taken into account in this estimate. In estimating the exploration potential for natural gas, TNO focuses on evaluating those geological units (so-called *plays*), in which geological conditions are favourable for gas accumulations and which have been sufficiently proven by drilling. Within these geological plays, only those prospective structures ('prospects') are considered that have been identified and assessed on the basis of existing data. Prospects of which the volume is very small – in case of success smaller than 0.5 billion Sm³ onshore or smaller than 2 billion Sm³ offshore – are not included in the potential estimate.

The exploration potential that may be present in hypothetical plays, or in not actually identified geological structures, is not taken into account because of its speculative nature. The estimate of the exploration potential includes prospects located in environmentally sensitive areas.

The estimate of the exploration potential is expressed as a numerical range, to stress the inherent highly uncertain nature:

Table 6. Exploration potential for natural gas (in billion Sm³) as per January 1, 2006.

Area	Range
Territory	60 – 150
Continental Shelf	120 – 290

The extent in which these volumes will indeed contribute to future gas production, however, also depends on a number of non-geological factors, such as: mining climate, infrastructure and accessibility of the prospects. The 'exploration potential' has, apart from the above mentioned cut offs on a volumetric basis, not been evaluated on an economic basis. Such a process would reduce the size of the portfolio. Depending on the chosen economic scenario this may well be a reduction up to 50%. The next section focuses on the extent to which this will add to Dutch gas production.

GAS SUPPLY FROM WITHIN THE NETHERLANDS

This section deals with the developments in the supply of gas from within the Netherlands that can reasonably be expected for the next 10 years, the period from 2006 to 2015. This section of the review is based on data submitted by operators and gas boards. The reference date for the present review is 1 January 2006. All volumes in the present section are quoted in billions of m³ Groningen Gas Equivalent (35.17 MJ/Nm³) abbreviated to m³Geq.

Supply for the period from 2006 to 2015

The maximum quantity of gas available from the Groningen reserves for the Gasunie T&S to fulfil its function for the small fields policy has been set on the basis of an amendment to article 55 of the Gas Act that came into effect on 1 July 2004. From 2006 to 2015 Gasunie T&S will be able to extract a maximum of 425 billion m³, or an average of 42.5 billion m³ annually. This maximum replaces that which had previously been designated as the national production ceiling on the basis of the Gas Act. The purpose of setting a maximum remains unchanged; the intention was, and still is, to ensure that the Groningen reserves can fulfil their function for the small fields policy.

The estimated supply from fields outside the Groningen accumulation has been prepared on the basis of the following data:

- the total summation of the production profiles of the producing accumulations. These profiles have been submitted by the operators as part of their production plans and annual reports.
- the summation of the production profiles of the accumulations from which production is expected to start within the period from 2006 to 2010. These reserves have been profiled according to a typical production development, equal volumes being produced each year.
- the summation of the production profiles of the accumulations that have not been discovered as yet. These profiles are prepared by using a simulation model; taking into account the number of well that is expected to be drilled, the expected volumes of the prospects and the probability of success.

The maximum volume that can be expected to be supplied from Dutch accumulations during the next ten years has been calculated taking into account the upper production limit (table 7). The resulting supply is 701 billion m³Geq, consisting of 276 billion m³Geq from 'non-Groningen' accumulations supplemented by a maximum of 425 billion m³ Geq from the Groningen accumulation. In this scenario, the Groningen will continue to act as a swing producer, balancing supply and demand.

Table 7. Gas supply from within the Netherlands for the period from 2006 – 2015, in billion m³Geq

Supply	2006 – 2010	2011 – 2015
non-Groningen accumulations		
Discovered - developed	127	56
Discovered - undeveloped	22	24
Still to be discovered	11	37
Subtotal non-Groningen	160	116
Groningen accumulation*	212.5	212.5
Total supply from within the Netherlands	372.5	328.5

* This is maximum quantity of gas available from the Groningen reserves for the Gasunie (article 55 Gas Act).

Figure 2 shows the historical production of natural gas in the Netherlands from 1990 and production prognosis for the non-Groningen accumulations and for the Groningen accumulation.

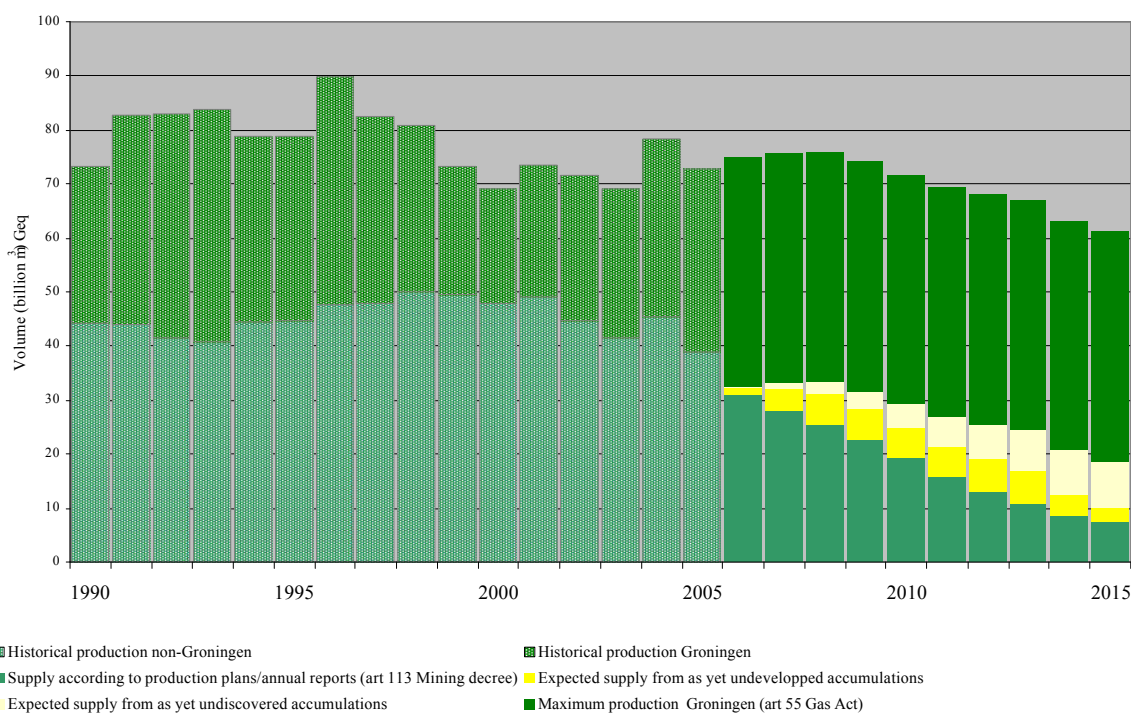


Figure 2. The historical production of natural gas in the Netherlands since 1990, the production prognosis for the non-Groningen accumulations and for the maximum production if the Groningen accumulation (42.5 billion m³/year).

2. OIL RESOURCES

Dutch oil reserves in million Sm³ as at 1 January 2006

Area	Developed	Undeveloped	Total
Territory	18.9	4.0	22,9
Continental Shelf	4.0	9.0	13
Total	22.9	13,0	35,9

Revision of oil reserves compared to 1 January 2006, in million Sm³

Area	new finds	Change as a result of:		total
		(re) evaluation	(net) production	
Territory	0	-4.5	0.3	0
Continental Shelf	0	-0.8	1.2	0
	0			0
Total	0	-5.3	1.5	0

Number of proven oil accumulations as at 1 January 2006

In comparison with 2004 the category sub economic has been deleted. Re-evaluation of the non-producing oil accumulations resulted in 9 accumulations onshore and 11 offshore. In total the number of oil accumulations has decreased by 4.

Oil accumulation	Territory	Continental Shelf
Producing	3	10
Closed in	1	-
Start of production between 2006 and 2010	-	1
Start of production unknown	9	11
Production ceased	7	1
Total	20	23

3. LICENCES, Netherlands Territory as at 1 January 2006

Changes in the licences for the exploration, production and storage onshore, which took place during 2005 in the onshore Territory, are listed in the tables below. Annexes 2, 3 and 4 in the second section of this annual review present a complete list of both licence applications and licences that are in force in the Territory as at 1 January 2006. Annexes 1 and 2 present maps showing the locations of exploration and production licences as well as any changes in licences that took place during 2005.

Total area	Under licence (km ²)	Under licence (%)
41 785 km ²	18 858 km ²	45.1 %

EXPLORATION LICENCES, Netherlands Territory, as at 1 January 2006

Applied for

Area	Publication	Date	Closing date
Oosterwolde/Haulerwijk	Publicatieblad EU, C 103	28-04-05	28-07-05
	Staatscourant 88	10-05-05	
Utrecht	Publicatieblad EU, C 191	05-08-05	04-11-05
	Staatscourant 157	16-08-05	

PRODUCTION LICENCES, Netherlands Territory, as at 1 January 2005

Applied for

Area	Publication	Date	Closing date
Oosterwolde	Publicatieblad EU, C 331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	

STORAGE LICENCES, Netherlands Territory, as at 1 January 2005

Applied for

Licence holder	Licence	In force as from
BP Nederland Energie B.V.	Bergermeer	14-11-05

4. LICENCES, Continental Shelf as at 1 January 2006

Changes in the licences for the exploration and production, which took place during 2005 on the Continental Shelf, are listed in the tables below. Annexes 5 up to and including 8 in the second section of this annual review present a complete list of both licence applications and licences that are in force on the Continental Shelf, as at 1 January 2006. Annexes 1 and 2 present maps showing the locations of exploration and production licences as well as any changes in licences that took place during 2005.

Total area	Under licence (km ²)	Under licence (%)
56 814 km ²	22 909 km ²	40,3 %

EXPLORATION LICENCES, Continental Shelf

Applied for

Block (part)	Publication	Date	Closing date
L16b	Publicatieblad EU, C107	03-05-05	02-08-05
	Staatscourant 91	13-05-05	
F14	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
F18	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
L1b	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
L3	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
M8	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
M10	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
M11	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
P4	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	
P5	Publicatieblad EU, C331	28-12-05	29-03-06
	Staatscourant 8	11-01-06	

Block (part)	Publication	Date	Closing date
P8	Publicatieblad EU, C331 Staatscourant 8	28-12-05 11-01-06	29-03-06
Q11	Nog niet gepubliceerd		
Q14	Publicatieblad EU, C331 Staatscourant 8	28-12-05 11-01-06	29-03-06

Awarded

Licence holder	Block (part)	In force as from	km ²
GDF Production Nederland B.V.	B18b	21-04-05	159
Wintershall Noordzee B.V.	K1b	15-04-05	323
Wintershall Noordzee B.V.	F17a	15-07-05	387
Total			869

Partly relinquished

Licence holder	Block (part)	In force as from	km ²
Wintershall Noordzee B.V.	A15a	28-09-05	67
Total			67

Lapsed/relinquished

Licence holder	Block (part)	Date	km ²
Wintershall Noordzee B.V.	M1b	06-12-05	193
Wintershall Noordzee B.V.	M4	06-12-05	408
Total			601

Merged

Licence holder	Block (part)	In force as from	km ²
Unocal Netherlands B.V.	A12b & B10a	16-04-05	125
Unocal Netherlands B.V.	B13a	16-04-05	206
Total			331

Subdivided

Licence holder	Block (part)	In force as from	km ²
Petro-Canada Netherlands B.V.	P10a	25-02-05	5
Petro-Canada Netherlands B.V.	P10b	25-02-05	350
Unocal Netherlands B.V.	A12b & B10a	16-04-05	79
Unocal Netherlands B.V.	B10c & B13a	16-04-05	252
Total			686

PRODUCTION LICENCES, Continental Shelf

Applied for

Block (part)	Publication	Date	Closing date
P8	Publicatieblad EU, C191	05-08-05	04-11-05
	Staatscourant 157	16-08-05	

Awarded

Licence holder	Block (part)	In force as from	km ²
Petro-Canada Netherlands B.V.	P10a	31-05-05	5
Unocal Netherlands B.V.	A12a	01-07-05	195
Unocal Netherlands B.V.	A12d	01-07-05	33
Unocal Netherlands B.V.	A18a	01-07-05	229
Unocal Netherlands B.V.	A18c	01-07-05	47
Unocal Netherlands B.V.	B10c & B13a	01-07-05	252
GDF Production Nederland B.V.	K3c	26-11-05	32
Total			1 045

Lapsed/Relinquished

Licence holder	Block (part)	In force as from	km²
GDF Production Nederland B.V.	L14a	22-12-05	21
		Total	21

5. COMPANY CHANGES, NAME CHANGES AND LEGAL MERGERS in 2005

The tables below list changes which took place during 2005, as a result of mutations in consortiums of companies that participate in licences as well as name changes of participating companies or name changes as a result of legal mergers.

Company changes in exploration licences

Relinquishing company	Acquiring company	Block (part)	In force as from	Netherlands Government Gazette
1. -	CH4 Nederland B.V.	K1b	12-10-05	198

Company changes in production licences

Relinquishing company	Acquiring company	Block (part)	In force as from	Netherlands Government Gazette
1. Mobil Producing Netherlands Inc.	ExxonMobil Producing Netherlands B.V.	Noord-Friesland	08-10-05	197
		De Marne	08-10-05	197
		M9a	08-10-05	197
		P15a/b	03-12-05	237
2. BP Nederland Energie B.V.	BPNE Offshore B.V.	P15c	03-12-05	237
		P18a	03-12-05	237
		P18c	03-12-05	237
			03-12-05	237

Name changes

Previous company name	New company name
Intrepid Energy Beta Ltd.	Talisman Energy Beta Ltd
Clam Petroleum B.V.	Burlington Resources Nederland Petroleum B.V.

Legal mergers

There were no legal mergers in 2005

6. SEISMIC ACQUISITION

All seismic acquisition surveys shot during 2005 are listed in the tables below. Historical summaries can be found in Annex 9.

NETHERLANDS TERRITORY

2D Seismic surveys

No 2D seismic surveys have been acquired onshore in 2005.

3D Seismic surveys

Location	Company	Status	Area in km ²
Schoonebeek	NAM	Completed	32
		Total	32

CONTINENTAL SHELF

2D Seismic surveys

No 2D seismic surveys have been acquired offshore in 2005.

3D Seismic surveys

Location	Company	Status	Area in km ²
G16a/b	GDF	Started	385
K15-L13	NAM	Completed	211
P6-Q4	WIN	Started	718
		Total	1 314

7. OIL AND GAS WELLS, completed in 2005

The tables below list all wells drilled and ended during 2005, sorted by drilling location: either on the Territory or on the Continental Shelf, subsequently sorted by exploration, appraisal or production wells. The tables list the name, licence, operator and result for each well.

The categories exploration, appraisal and production refer to the initial petroleum geological target of the well. An exploration well which later on will be completed as a producer will remain an exploration well in this overview. The column showing the results gives the technical result. A well that strikes gas that may will be categorised as a gas well even if the gas will not be developed.

The last table presents an aggregated summary of all drilling operations during 2005. Historical summaries can be found in Annex 10 up to and including 12.

NETHERLANDS TERRITORY

Exploration wells

	Well name	Licence	Operator	Result
1	's Gravenzande-03 sidetrack 2	Rijswijk	NAM	gas
2	Luttelgeest-01	Lemmer-Marknesse	Total	dry
3	Waalwijk South-02	Waalwijk	Wintershall	gas

Appraisal wells

No appraisal wells have been drilled and ended in 2005				
--	--	--	--	--

Production wells

	Well name	Production licence	Operator	Result
1	Eemskanaal-13	Groningen	NAM	gas
2	Leens-02	Groningen	NAM	gas
3	Lauwerzijl-01	Groningen	NAM	gas

CONTINENTAL SHELF

Exploration wells

	Well name	Production licence	Operator	Result
1	G14-04	G14	Gaz de France	gas
2	G14-05	G14	Gaz de France	dry
3	K12-17	K12	Gaz de France	gas
4	K18-07 sidetrack 1	K18b	Wintershall	gas

Appraisal wells

	Well name	Production licence	Operator	Result
1	K12-B-09 sidetrack 1	K12	Gaz de France	gas

Production wells

	Well name	Production licence	Operator	Result
1	F16-A-03 sidetrack 1	F16	Wintershall	gas
2	G14-A-02	G14	Gaz de France	gas
3	K02-A-01	K02b	Gaz de France	gas
4	K05-EC-05 sidetrack 1	K05a	Total	gas
5	K18-KOTTER-10 sidetrack 1	K18b	Wintershall	oil
6	L05-B-03	L05b	Wintershall	gas
7	L13-FD-103 sidetrack 1	L13	NAM	gas
8	Q04-C-03	Q04	Wintershall	gas

DRILLING OPERATIONS in 2005

Summary of drilling operations during 2005

	Type of well	Result				Total
		Gas	Oil	Gas+Oil	Dry	
Netherlands Territory	Exploration	2	-	-	1	3
	Appraisal	-	-	-	-	-
	Production	3	-	-	-	3
	Sub total	5	0	0	1	6
Continental Shelf	Exploration	3	-	-	1	4
	Appraisal	1	-	-	-	1
	Production	7	1	-	-	8
	Sub total	11	1	0	1	13
Total		16	1	0	2	19

8. PLATFORMS AND PIPELINES

The tables below list all modifications to platforms and pipelines during 2005. For further information, please refer to the annual report of the State Supervision of Mines (Staatstoezicht op de Mijnen). Annexes 13 and 14 present a complete list of all platforms and pipelines.

New platforms, Continental Shelf installed in 2005

Platform	Operator	Number of legs	Gas/Oil*	Function
G14-A	Gaz de France	4	G	satellite
G16-A	Gaz de France	4	G	satellite
G17a-S1	Gaz de France	-		subsea completion
G17d-AP	Gaz de France	4	G	production
K2b-A	Gaz de France	4	G	satellite
K17-FA-1	NAM	1	G	satellite
L4-G	Total	-	G	subsea completion
L6d-2	ATP	-	G	subsea completion

Removed platforms, Continental Shelf removed in 2005

Platform	Operator	Number of legs	Gas/Oil*	Function
L11-PA	Gaz de France	4	--	jacket
K10V	Wintershall	4	G	satellite
K11B top side	Gaz de France	4	G	satellite
K12E top side	Gaz de France	4	G	satellite

New Pipelines, Continental Shelf laid in 2005

Operator	From	To	Diameter (inch)	Length (km)	Carries*
Wintershall	F16-A	NGT	24	32	g
Gaz de France	G14-A	G17d-AP	12 + 2	19,8	g + m
Gaz de France	G17a-S1	G17d-AP	6 + 92,5 mm	5,67	g + c
Gaz de France	K2b-A	D15-FA-1/L10-A (side tap NGT)	12	2,8	g
NAM	K17-FA-1	K14-FB-1	16 * 2	14,4	g + m
Total	L4-G	L4-A	6 + 4	9,6	g + c
ATP	L6d-2	G17d-AP	6 + 73 mm	40	g + c
Petro-Canada	P11-B-Ruyter	P11-B-TMLS	16	1,5	o
Petro-Canada	P11-B-Ruyter	P12-SW	8	29	g

*

g = gas

o = oil

m = methanol

+ = laid separately

c = control cable

9. PRODUCTION

The tables below list the aggregated production figures for natural gas, oil and condensate for 2005. Gasvolumes are reported in Standard cubic meters (Sm^3), and Normal cubic meters (Nm^3). Changes in comparison to 2004 are listed in absolute terms and in terms of percentage.

Total production of gas and oil in 2005 and changes compared to 2004

Gas	Production 2005		Changes compared to 2004	
	10^6 Nm^3	10^6 Sm^3	10^6 Sm^3	%
Netherlands Territory	45 493.4	48 019.2	-403.1	0%
Continental Shelf	23 777.0	25 097.2	-4 024.5	-16%
Total	69 270.4	73 116.4	-4 427.6	-6%

Oil	Production 2005		Changes compared to 2004	
	10^3 Sm^3	10^3 Sm^3	10^3 Sm^3	%
Netherlands Territory	335.4		-45,9	-12%
Continental Shelf	1 489.7		-592,0	-28%
Total	1 825.1		-637,9	-26%
Average daily oil production	5 000 (Sm^3/d)			

Condensate	Production 2005		Changes compared to 2004	
	10^3 Sm^3	10^3 Sm^3	10^3 Sm^3	%
Netherlands Territory	304.7		-100.0	-25%
Continental Shelf	599.9		-129.6	-18%
Total production	904.6		-229.6	-20%

The tables on the following pages present the monthly production figures for each production licence. Figures are presented in Standard cubic meters (Sm^3), and Normal cubic meters (Nm^3). Annexes 15 up to and including 18 present historical gas and oil production figures over many years.

GAS PRODUCTION. Netherlands Territory in 2005 (in million Standard cubic meters. Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
Bergen	BP	271.8	24.9	12.3	20.9	27.0	23.0	23.1	22.7	22.8	22.0	22.1	25.5	25.4
Botlek	NAM	851.4	135.2	118.3	94.7	61.3	53.2	23.1	46.1	40.4	37.5	47.9	80.2	113.4
Drenthe	NAM	1 966.9	374.1	458.4	325.3	109.8	86.3	73.7	78.0	62.7	37.5	44.5	147.3	169.4
Drenthe	Vermilion	10.4	0.0	0.5	0.5	0.1	0.4	1.3	0.8	1.2	1.9	1.8	1.1	0.9
Gorredijk	Vermilion	85.7	0.0	8.8	10.0	9.1	8.2	3.4	7.7	8.1	7.1	7.6	7.7	7.9
Groningen	NAM	38 007.9	5 536.1	5 589.7	4 238.7	2 394.0	1 718.0	1 407.0	1 321.6	1 338.7	1 355.2	1 776.1	4 816.2	6 516.7
Hardenberg	NAM	18.0	2.5	1.7	1.8	1.7	1.4	1.1	1.1	1.8	1.0	1.2	1.4	1.3
Leeuwarden	Vermilion	156.7	0.0	14.1	16.8	12.3	12.8	6.5	16.5	17.1	16.5	17.6	13.6	13.0
Noord-														
Friesland	NAM	2 860.8	325.8	285.5	292.4	231.7	193.1	177.8	205.0	164.0	201.0	250.0	268.2	266.5
Oosterend	Vermilion	7.1	0.0	1.1	1.0	0.7	0.3	0.0	0.5	0.8	0.7	0.7	0.6	0.7
Rijswijk	NAM	1 725.8	231.1	210.6	209.3	193.2	85.9	67.5	62.4	70.7	73.0	109.7	192.9	219.4
Rossum-de														
Lutte	NAM	63.4	7.1	6.4	6.9	6.4	6.7	5.2	3.3	5.6	0.0	2.5	6.9	6.4
Schoonebeek	NAM	1 265.4	166.5	147.5	121.5	90.0	78.8	77.8	84.0	75.3	60.7	71.1	124.5	167.7
Slootdorp	Vermilion	28.0	0.0	2.5	2.7	2.8	1.9	3.2	2.3	2.8	2.4	2.4	2.7	2.3
Steenwijk	Vermilion	32.7	0.0	3.7	3.9	0.3	1.7	2.5	1.9	3.7	3.5	3.9	3.7	3.9
Tietjerkstera-														
deel	NAM	393.3	48.6	42.8	39.4	21.4	13.0	4.6	16.2	31.7	41.9	43.6	44.6	45.5
Tubbergen	NAM	65.8	8.3	6.8	7.8	5.9	6.2	4.8	4.5	4.9	0.0	2.5	6.8	7.2
Waalwijk	Wintershall	111.7	7.2	16.4	7.2	8.2	13.0	11.7	10.2	7.6	8.0	7.1	8.1	7.0
Zuidwal	Vermilion	96.5	0.0	8.4	10.7	4.5	10.7	12.2	10.7	9.0	11.4	9.9	5.6	3.5
Total		48 019.2	6 867.5	6 935.4	5 411.5	3 180.4	2 314.9	1 906.4	1 895.4	1 868.6	1 881.2	2 422.1	5 757.5	7 578.1

GAS PRODUCTION. Netherlands Territory in 2005 (in million Normal cubic meters. Nm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
Bergen	BP	257.5	23.6	11.7	19.8	25.6	21.8	21.9	21.5	21.6	20.8	21.0	24.1	24.1
Botlek	NAM	806.6	128.1	112.1	89.7	58.1	50.4	21.8	43.7	38.3	35.5	45.3	76.0	107.5
Drenthe	NAM	1 863.4	354.4	434.3	308.2	104.0	81.8	69.8	73.9	59.4	35.5	42.1	139.6	160.5
Drenthe	Vermilion	9.9	0.0	0.5	0.5	0.1	0.4	1.2	0.7	1.1	1.8	1.7	1.1	0.9
Gorredijk	Vermilion	81.2	0.0	8.4	9.5	8.7	7.8	3.2	7.3	7.6	6.7	7.2	7.3	7.5
Groningen	NAM	36 008.7	5 244.9	5 295.7	4 015.7	2 268.0	1 627.6	1 333.0	1 252.1	1 268.2	1 284.0	1 682.7	4 562.8	6 174.0
Hardenberg	NAM	17.0	2.3	1.6	1.7	1.6	1.3	1.1	1.1	1.7	0.9	1.1	1.3	1.2
Leeuwarden	Vermilion	148.4	0.0	13.4	15.9	11.6	12.1	6.1	15.6	16.2	15.6	16.6	12.8	12.3
Noord-														
Friesland	NAM	2 710.3	308.6	270.5	277.0	219.5	183.0	168.4	194.2	155.3	190.4	236.8	254.1	252.5
Oosterend	Vermilion	6.8	0.0	1.0	1.0	0.6	0.3	0.0	0.5	0.8	0.7	0.7	0.6	0.7
Rijswijk	NAM	1 635.0	219.0	199.5	198.3	183.0	81.3	64.0	59.1	67.0	69.2	104.0	182.8	207.9
Rossum-de														
Lutte	NAM	60.1	6.7	6.1	6.5	6.0	6.4	5.0	3.1	5.3	0.0	2.4	6.5	6.1
Schoonebeek	NAM	1 198.8	157.8	139.7	115.1	85.3	74.7	73.7	79.6	71.4	57.5	67.3	117.9	158.9
Slootdorp	Vermilion	26.5	0.0	2.4	2.5	2.6	1.8	3.0	2.2	2.7	2.3	2.3	2.5	2.2
Steenwijk	Vermilion	31.0	0.0	3.5	3.7	0.3	1.6	2.4	1.8	3.5	3.3	3.7	3.5	3.7
Tietjerkstera-														
deel	NAM	372.7	46.0	40.5	37.4	20.3	12.3	4.3	15.3	30.1	39.7	41.3	42.3	43.1
Tubbergen	NAM	62.4	7.9	6.4	7.4	5.6	5.9	4.6	4.3	4.6	0.0	2.4	6.5	6.8
Waalwijk	Wintershall	105.8	6.8	15.6	6.9	7.7	12.4	11.0	9.7	7.2	7.6	6.7	7.7	6.6
Zuidwal	Vermilion	91.4	0.0	7.9	10.1	4.3	10.2	11.5	10.1	8.5	10.8	9.4	5.3	3.3
Total		45 493.4	6 506.3	6 570.6	5 126.9	3 013.1	2 193.2	1 806.2	1 795.7	1 770.3	1 782.3	2 294.7	5 454.6	7 179.5

GAS PRODUCTION. Continental Shelf in 2005 (in million Standard cubic meters. Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
D12a	Wintershall	790.0	0.0	14.2	95.3	106.7	111.5	94.9	42.3	94.7	58.5	50.0	60.0	61.9
D15	Gaz de France	260.5	20.3	25.1	34.0	31.0	31.4	27.9	6.3	6.7	9.9	20.1	20.0	27.9
F02a	Petro-Canada	83.0	8.5	7.4	7.9	7.2	6.5	6.8	7.7	6.8	5.5	6.6	6.1	6.0
F03	NAM	703.0	68.2	64.0	72.2	58.3	69.0	63.2	54.4	30.6	21.7	65.4	66.2	69.8
F15a	Total	324.4	33.0	29.6	32.5	27.6	30.5	29.5	30.4	18.1	6.2	29.8	27.5	29.9
F16	Wintershall	69.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	67.2
G17c & G17d	Gaz de France	375.1	39.3	40.0	43.8	35.2	31.7	11.4	21.0	25.4	27.7	28.8	34.9	36.0
J03b & J06	CH4 Nederland	494.5	46.5	41.6	44.3	46.0	45.9	36.0	40.0	36.4	29.4	45.7	36.8	45.8
K01a	Total	1 043.6	110.0	98.7	106.2	63.0	98.8	85.7	89.7	60.7	47.8	95.4	97.1	90.4
K02b	Gaz de France	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8
K04a	Total	1 360.2	129.2	116.8	127.0	120.8	121.6	84.3	114.3	77.8	55.5	135.8	137.3	139.9
K04b & K05a	Total	1 795.6	159.8	163.9	187.5	149.8	167.2	111.1	163.8	137.4	109.1	153.0	142.3	150.7
K06 & L7	Total	1 143.0	115.6	103.2	120.3	120.9	117.3	113.1	42.0	62.1	83.0	75.8	79.0	110.8
K07	NAM	661.1	54.1	47.0	50.1	56.0	93.2	3.3	49.3	39.6	52.6	70.4	75.7	70.0
K08 & K11	NAM	994.4	110.4	94.1	99.1	69.8	103.2	12.5	59.1	69.3	74.0	91.8	95.1	116.0
K09a & K09b	Gaz de France	653.8	61.1	50.4	71.6	49.0	64.6	66.9	27.5	63.2	17.7	55.6	65.6	60.5
K09c	Gaz de France	64.8	2.9	6.7	6.9	6.7	6.6	4.6	6.5	4.1	3.0	6.0	5.0	5.7
K12	Gaz de France	1 566.1	161.6	147.6	160.4	96.6	132.5	151.2	130.9	120.0	109.7	129.9	98.6	127.0
K14	NAM	311.7	36.9	30.7	29.5	28.2	26.3	30.3	32.5	4.4	10.5	26.7	26.1	29.6
K15	NAM	1 811.9	194.7	183.9	192.4	177.3	164.8	155.2	137.3	82.9	67.1	164.9	147.5	143.8
L02	NAM	5.2	0.0	0.0	0.0	0.0	0.0	2.4	2.8	0.0	0.0	0.0	0.0	0.0
L04a	Total	674.1	68.4	59.8	67.4	61.7	65.1	61.0	55.1	33.7	29.5	55.8	58.3	58.4
L05a	NAM	544.3	67.0	58.0	56.0	52.1	60.3	55.9	31.4	19.8	41.4	12.5	37.6	52.1
L05b	Wintershall	581.8	50.0	45.0	50.1	45.3	39.4	42.5	42.8	41.2	53.9	54.2	54.9	62.5
L08a	Wintershall	101.7	9.8	8.8	9.5	9.5	5.9	7.1	7.5	8.8	8.7	9.2	8.7	8.2
L08b	Wintershall	527.5	54.4	48.9	54.2	48.6	47.6	46.5	38.2	16.9	44.2	41.4	43.4	43.1
L09a & L09b	NAM	2 082.7	279.8	247.8	258.7	243.4	208.9	124.1	38.0	64.0	49.2	117.8	216.3	234.9
L10 & L11a	Gaz de France	992.0	128.5	110.3	110.9	67.6	78.3	61.1	37.8	41.1	53.8	92.0	104.7	105.9
L11b	Unocal	35.8	3.5	1.8	3.3	2.9	3.2	3.2	3.2	3.2	3.0	3.1	2.8	2.7
L12b & L15	NAM	291.1	34.0	32.0	33.1	24.9	33.1	9.1	8.3	11.0	13.7	17.0	38.1	36.7
L13	NAM	249.2	27.5	22.5	25.2	22.7	19.9	17.7	17.0	19.3	13.4	2.5	18.0	43.4
P06	Wintershall	360.1	35.5	31.7	35.8	30.9	29.3	31.9	33.1	17.5	19.4	32.0	30.8	32.2
P09c	Unocal	3.9	0.4	0.2	0.4	0.3	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3
P12	Wintershall	86.6	8.4	7.5	7.7	7.7	7.5	7.1	7.5	7.4	5.0	7.0	6.6	7.2
P14a	Wintershall	62.9	8.1	7.5	8.2	7.6	7.8	5.6	5.1	6.3	4.1	1.4	1.2	0.0
P15a & P15b	BP	524.8	63.8	58.9	64.0	53.7	54.1	32.9	21.3	14.5	28.0	47.8	40.0	45.8
P15c	BP	10.8	2.1	0.3	0.8	1.8	1.9	0.9	0.0	0.0	0.4	1.5	0.0	1.1
P18a	BP	845.7	81.7	69.6	76.4	72.4	72.7	53.6	64.3	72.0	74.2	74.1	71.5	63.2
Q01	Unocal	72.2	7.6	3.2	7.3	7.1	6.1	6.4	6.1	5.2	6.6	6.4	4.8	5.3
Q04	Wintershall	2 084.9	197.3	174.6	181.2	170.8	184.8	185.3	161.1	163.0	146.4	172.5	164.8	183.0
Q05c	Wintershall	77.8	15.6	8.6	7.6	5.7	4.2	6.7	8.6	6.9	3.9	4.3	3.6	2.0
Q08	Wintershall	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
Q16a	NAM	366.7	34.9	43.3	43.9	40.3	41.2	32.3	43.0	19.1	9.3	34.5	0.4	24.5
Totaal		2 5097.2	2530.4	2305.3	2582.6	2227.3	2394.3	1881.8	1687.7	1511.5	1397.3	2039.0	2129.9	2410.1

GAS PRODUCTION. Continental Shelf in 2005 (in million Normal cubic meters. Nm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
D12a	Wintershall	748.4	0.0	13.4	90.3	101.1	105.6	89.9	40.1	89.7	55.5	47.4	56.8	58.6
D15	Gaz de France	246.8	19.2	23.8	32.2	29.3	29.7	26.4	5.9	6.3	9.4	19.0	19.0	26.4
F02a	Petro-Canada	78.7	8.0	7.0	7.5	6.8	6.2	6.5	7.3	6.4	5.2	6.3	5.7	5.7
F03	NAM	666.0	64.6	60.6	68.4	55.3	65.4	59.9	51.5	29.0	20.6	62.0	62.7	66.1
F15a	Total	307.4	31.2	28.0	30.7	26.2	28.9	28.0	28.8	17.1	5.9	28.2	26.0	28.3
F16	Wintershall	66.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	63.6
G17c & G17d	Gaz de France	355.4	37.2	37.9	41.5	33.4	30.0	10.8	19.9	24.1	26.2	27.3	33.1	34.1
J03b & J06	CH4 Nederland	468.5	44.1	39.4	42.0	43.6	43.5	34.1	37.9	34.5	27.9	43.3	34.9	43.4
K01a	Total	988.7	104.2	93.5	100.6	59.7	93.6	81.2	85.0	57.5	45.3	90.4	92.0	85.6
K02b	Gaz de France	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
K04a	Total	1 288.7	122.4	110.6	120.3	114.4	115.2	79.9	108.3	73.7	52.6	128.7	130.0	132.5
K04b & K05a	Total	1 701.2	151.4	155.2	177.6	141.9	158.4	105.2	155.2	130.2	103.4	145.0	134.8	142.8
K06 & L7	Total	1 082.9	109.5	97.7	113.9	114.6	111.1	107.2	39.8	58.8	78.6	71.8	74.8	105.0
K07	NAM	626.3	51.2	44.5	47.5	53.1	88.3	3.2	46.7	37.5	49.8	66.7	71.7	66.3
K08 & K11	NAM	942.1	104.6	89.1	93.9	66.1	97.8	11.8	56.0	65.7	70.1	87.0	90.1	109.9
K09a & K09b	Gaz de France	619.4	57.8	47.8	67.8	46.4	61.2	63.4	26.1	59.9	16.8	52.7	62.1	57.3
K09c	Gaz de France	61.4	2.7	6.3	6.6	6.4	6.3	4.3	6.2	3.9	2.8	5.7	4.8	5.4
K12	Gaz de France	1 483.7	153.1	139.9	151.9	91.5	125.5	143.2	124.0	113.7	104.0	123.1	93.4	120.3
K14	NAM	295.3	35.0	29.1	27.9	26.8	25.0	28.7	30.8	4.1	10.0	25.3	24.7	28.0
K15	NAM	1 716.6	184.5	174.2	182.2	168.0	156.2	147.1	130.1	78.6	63.5	156.3	139.7	136.2
L02	NAM	5.0	0.0	0.0	0.0	0.0	0.0	2.2	2.7	0.0	0.0	0.0	0.0	0.0
L04a	Total	638.6	64.8	56.7	63.9	58.4	61.7	57.8	52.2	31.9	27.9	52.9	55.2	55.3
L05a	NAM	515.6	63.5	55.0	53.1	49.4	57.1	52.9	29.8	18.8	39.2	11.9	35.6	49.4
L05b	Wintershall	551.2	47.4	42.6	47.4	42.9	37.3	40.3	40.6	39.0	51.1	51.4	52.0	59.2
L08a	Wintershall	96.4	9.3	8.4	9.0	9.0	5.6	6.7	7.1	8.3	8.3	8.7	8.3	7.8
L08b	Wintershall	499.7	51.5	46.3	51.4	46.1	45.1	44.1	36.2	16.0	41.8	39.2	41.1	40.9
L09a & L09b	NAM	1 973.2	265.0	234.8	245.1	230.6	197.9	117.6	36.0	60.6	46.6	111.6	204.9	222.5
L10 & L11a	Gaz de France	939.8	121.7	104.5	105.0	64.1	74.1	57.9	35.8	38.9	51.0	87.1	99.2	100.3
L11b	Unocal	33.9	3.3	1.7	3.1	2.7	3.0	3.0	3.0	3.0	2.9	3.0	2.7	2.5
L12b & L15	NAM	275.8	32.2	30.4	31.3	23.6	31.4	8.7	7.9	10.4	13.0	16.1	36.1	34.8
L13	NAM	236.1	26.0	21.3	23.9	21.5	18.9	16.8	16.1	18.3	12.7	2.4	17.1	41.2
P06	Wintershall	341.2	33.6	30.0	33.9	29.3	27.7	30.2	31.3	16.6	18.4	30.4	29.2	30.6
P09c	Unocal	3.7	0.4	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
P12	Wintershall	82.1	8.0	7.1	7.3	7.3	7.1	6.8	7.1	7.0	4.7	6.6	6.2	6.8
P14a	Wintershall	59.6	7.7	7.1	7.8	7.2	7.3	5.3	4.8	6.0	3.9	1.3	1.2	0.0
P15a & P15b	BP	497.2	60.4	55.8	60.7	50.8	51.3	31.2	20.2	13.8	26.5	45.3	37.9	43.4
P15c	BP	10.3	2.0	0.3	0.7	1.7	1.8	0.9	0.0	0.0	0.4	1.4	0.0	1.1
P18a	BP	801.3	77.4	65.9	72.4	68.6	68.9	50.8	60.9	68.2	70.3	70.2	67.7	59.9
Q01	Unocal	68.4	7.2	3.1	7.0	6.8	5.7	6.1	5.7	5.0	6.3	6.1	4.5	5.0
Q04	Wintershall	1 975.2	186.9	165.4	171.7	161.8	175.1	175.6	152.7	154.4	138.7	163.4	156.2	173.4
Q05c	Wintershall	73.7	14.8	8.2	7.2	5.4	4.0	6.3	8.1	6.6	3.7	4.0	3.4	1.9
Q08	Wintershall	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
Q16a	NAM	347.4	33.0	41.0	41.6	38.2	39.1	30.6	40.7	18.1	8.8	32.7	0.3	23.2
Total		2 3777.0	2397.2	2184.0	2446.8	2110.2	2268.4	1782.8	1598.9	1432.0	1323.8	1931.8	2017.8	2283.3

OIL PRODUCTION in 2005. (x 1000 ton)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
Rijswijk	NAM	295.2	30.0	28.5	26.4	22.5	28.0	25.5	28.2	27.8	26.9	8.5	17.5	25.4
F 2a	Petro-Canada	834.9	86.7	77.5	75.6	71.6	65.1	67.9	77.5	67.9	56.8	67.7	61.2	59.5
F 3	NAM	87.3	8.5	8.0	8.6	7.4	8.6	7.9	7.0	4.2	2.6	8.1	8.1	8.4
K18a & K18b	Wintershall	57.9	2.2	2.0	1.5	1.4	2.0	4.6	10.3	9.4	7.3	6.7	5.4	5.3
L16a	Wintershall	36.3	3.7	3.2	3.4	2.6	1.5	2.8	3.0	2.9	3.4	3.5	3.1	3.3
P9c	Unocal	51.1	4.8	2.7	4.9	3.9	3.3	4.9	4.7	4.6	4.3	4.4	4.1	4.3
Q1	Unocal	171.8	15.8	8.7	15.3	15.0	15.5	14.7	14.0	13.4	14.5	14.9	14.8	15.1
Total		1 534.5	151.6	130.6	135.6	124.6	123.9	128.2	144.7	130.1	115.8	113.8	114.2	121.4

OIL PRODUCTION in 2005. (x 1000 Standard cubic meters. Sm³)

The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area

Licence	Operator	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
Rijswijk	NAM	335.4	34.0	32.4	30.0	25.6	31.8	29.0	32.1	31.6	30.5	9.7	19.9	28.9
F 2a	Petro-Canada	1 005.9	104.4	93.3	91.1	86.3	78.4	81.8	93.4	81.8	68.4	81.5	73.7	71.7
F 3	NAM	124.8	12.2	11.4	12.3	10.6	12.3	11.2	9.9	6.0	3.7	11.6	11.6	12.0
K18a & K18b	Wintershall	66.5	2.5	2.3	1.7	1.6	2.2	5.3	11.9	10.8	8.4	7.7	6.2	6.1
L16a	Wintershall	42.2	4.3	3.7	4.0	3.0	1.8	3.2	3.4	3.3	4.0	4.1	3.6	3.9
P9c	Unocal	59.4	5.6	3.2	5.6	4.6	3.8	5.7	5.5	5.4	5.0	5.1	4.8	5.0
Q1	Unocal	190.9	17.5	9.7	17.0	16.7	17.2	16.3	15.6	14.9	16.1	16.5	16.5	16.8
Total		1 825.1	180.6	156.0	161.7	148.4	147.5	152.5	171.8	153.7	136.2	136.3	136.2	144.3

CONDENSATE* PRODUCTION in 2005. (x 1000 Standard cubic meters. Sm³)

Licence	Total	Jan	Feb	Mrt	April	Mei	Juni	Juli	Aug	Sept	Okt	Nov	Dec
Gasvelden Territoir	304.7	39.9	36.7	34.0	27.6	14.1	12.3	17.0	14.6	15.8	21.2	32.9	38.6
Gasvelden Continentaal plat	599.9	63.4	55.0	65.1	54.2	63.8	43.6	30.9	38.4	30.3	48.0	52.0	55.2
Total	904.6	103.3	91.7	99.1	81.8	77.9	55.9	47.9	53.0	46.1	69.2	84.9	93.8

* Condensate is a liquid that is recovered as a by-product during the production of natural gas. This liquid is also referred to as natural gasoline or natural gas liquids (NGL).

ANNEXES

NATURAL GAS ACCUMULATIONS ORDERED BY STATUS

I. DEVELOPPED ACCUMULATIONS			
a) Producing			
Accumulation*	Company	Licence name**	Licence type
Ameland East	NAM	Noord-Friesland	pl
Ameland Westgat	NAM	Noord-Friesland	pl
Anjum	NAM	Noord-Friesland	pl
Annerveen	NAM	Drenthe	pl
Appelscha	NAM	Drenthe	pl
Barendrecht	NAM	Rijswijk	pl
Barendrecht-Ziedewij	NAM	Rijswijk	pl
Bedum	NAM	Groningen	pl
Bergen	BP	Bergen	pl
Bergermeer	BP	Bergen	pl
Blija-Ferwerderadeel	NAM	Noord-Friesland	pl
Blija-Zuidoost	NAM	Noord-Friesland	pl
Blijham	NAM	Groningen	pl
Boerakker	NAM	Groningen	pl
Botlek	NAM	Botlek	pl
Bozum	Vermilion	Oosterend	pl
Castricum Zee	NAM	Middelie	pl
Coevorden	NAM	Schoonebeek	pl
Collendoornerveen	NAM	Schoonebeek	pl
Dalen	NAM	Drenthe	pl
De Blesse	Vermilion	Leeuwarden	pl
De Wijk	NAM	Schoonebeek	pl
Den Velde	NAM	Hardenberg	pl
Eleveld	NAM	Drenthe	pl
Emmen	NAM	Drenthe	pl
Emmen-Nieuw Amsterdam	NAM	Drenthe	pl
Ezumazijl	NAM	Noord-Friesland	pl
Friesland	Vermilion	Oosterend	pl
Gaag	NAM	Rijswijk	pl
's Gravenzande	NAM	Rijswijk	pl
Geestvaartpolder	NAM	Rijswijk	pl
Groet	BP	Bergen	pl
Groet-Oost	NAM	Middelie	pl
Groningen	NAM	Groningen	pl
Grootegast	NAM	Groningen	pl
Hardenberg	NAM	Schoonebeek	pl
Harlingen-Chalk	Vermilion	Leeuwarden	pl
Harlingen-Vlieland	Vermilion	Leeuwarden	pl
Kollum	NAM	Noord-Friesland	pl
Kollumerland	NAM	Tietjerksteradeel	pl

Kollum-Noord	NAM	Noord-Friesland	pl
Kommerzijl	NAM	Groningen	pl
Leens	NAM	Groningen	pl
Loon op Zand-South	Wintershall	Waalwijk	pl
Lula/Kiel-Windeweer	NAM	Groningen	pl
Maasdijk	NAM	Rijswijk	pl
Marum	NAM	Groningen	pl
Metslawier	NAM	Noord-Friesland	pl
Middenmeer	Vermilion	Slootdorp	pl
Molenpolder	NAM	Groningen	pl
Monster	NAM	Rijswijk	pl
Munnekezijl	NAM	de Marne	pl
Nijensleek	NAM	Drenthe	pl
Noordwolde	Vermilion	Gorredijk	pl
Norg-zuid	NAM	Drenthe	pl
Oldelamer	Vermilion	Gorredijk	pl
Oosterhesselen	NAM	Drenthe	pl
Oostrum	NAM	Noord-Friesland	pl
Opende-Oost	NAM	Groningen	pl
Oud Beijerland Zuid	NAM	Botlek	pl
Oude Pekela	NAM	Groningen	pl
Pasop	NAM	Groningen	pl
Pernis-West	NAM	Rijswijk	pl
Reedijk	NAM	Botlek	pl
Ried	Vermilion	Leeuwarden	pl
Rossum-Weerselo	NAM	Rossum-de Lutte	pl
Roswinkel	NAM	Drenthe	pl
Saaksum	NAM	Groningen	pl
Schermer	BP	Bergen	pl
Schoonebeek	NAM	Schoonebeek	pl
Sebaldeburen	NAM	Groningen	pl
Slootdorp	Vermilion	Slootdorp	pl
Sprang	Wintershall	Waalwijk	pl
Suawoude	NAM	Tietjerksteradeel	pl
Tietjerksteradeel	NAM	Tietjerksteradeel	pl
Tubbergen	NAM	Tubbergen	pl
Tubbergen-Mander	NAM	Tubbergen	pl
Ureterp	NAM	Tietjerksteradeel	pl
Vries	NAM	Drenthe	pl
Waalwijk-Noord	Wintershall	Waalwijk	pl
Wanneperveen	NAM	Schoonebeek	pl
Zuidwal	Vermilion	Zuidwal	pl
D12 Andalusiet West	Wintershall	D12a	pl
D15-A	Gaz de France	D15	pl
D15-A-104	Gaz de France	D15	pl
F15-A	Total	F15a	pl
F15-B	Total	F15a	pl

F16-E	Wintershall	F16	pl
G17CD-A	Gaz de France	G17d	pl
Halfweg	Chevron	Q01	pl
J03-C Unit	Total	J03a	pl
K01-A Unit	Total	K01a	pl
K04-A Unit	Total	K04a	pl
K04A-B	Total	K04a	pl
K04A-D	Total	K04a	pl
K04-E (K4A)	Total	K04a	pl
K04-N	Total	K04a	pl
K05A-A	Total	K05a	pl
K05A-B	Total	K05a	pl
K05A-D	Total	K05a	pl
K05A-EN	Total	K05a	pl
K05A-ES	Total	K05a	pl
K05-C-Unit	Total	K05a	pl
K05-G	Total	K05a	pl
K06-A	Total	K06	pl
K06-C	Total	K06	pl
K06-D	Total	K06	pl
K06-DN	Total	K06	pl
K06-G	Total	K06	pl
K06-N	Total	K06	pl
K06-T	Total	K06	pl
K07-FA	NAM	K07	pl
K07-FB	NAM	K07	pl
K07-FC	NAM	K07	pl
K07-FD	NAM	K07	pl
K07-FE	NAM	K07	pl
K08-FA	NAM	K08	pl
K09AB-A	Gaz de France	K09b	pl
K09AB-B	Gaz de France	K09a	pl
K09C-A	Gaz de France	K09c	pl
K12-B	Gaz de France	K12	pl
K12-C	Gaz de France	K12	pl
K12-D	Gaz de France	K12	pl
K12-G	Gaz de France	K12	pl
K12-S2	Gaz de France	K12	pl
K12-S3	Gaz de France	K12	pl
K14-FA	NAM	K14	pl
K14-FB	NAM	K14	pl
K15-FA	NAM	K15	pl
K15-FG	NAM	K15	pl
K15-FK	NAM	K15	pl
K15-FL	NAM	K15	pl
K15-FM	NAM	K15	pl
L01-A	Total	L01a	pl
L02-FA	NAM	L02	pl

L04-A	Total	L04a	pl
L04-B	Total	K06	pl
L04-F	Total	L04a	pl
L04-I	Total	L04a	pl
L05-B	Wintershall	L05b	pl
L05-FA	NAM	L05a	pl
L07-C	Total	L07	pl
L07-G	Total	L07	pl
L07-H	Total	L07	pl
L07-HSE	Total	L07	pl
L07-N	Total	L07	pl
L08-A	Wintershall	L08a	pl
L08-A-West	Wintershall	L08b	pl
L08-G	Wintershall	L08a	pl
L08-H	Wintershall	L08a	pl
L08-P	Wintershall	L08b	pl
L08-P4	Wintershall	L05c	pl
L09-FC	NAM	L09b	pl
L09-FD	NAM	L09a	pl
L09-FF	NAM	L09a	pl
L09-FI	NAM	L09a	pl
L10-CDA	Gaz de France	L10	pl
L10-F	Gaz de France	L10	pl
L10-G	Gaz de France	L10	pl
L10-M	Gaz de France	L10	pl
L10-S2	Gaz de France	L10	pl
L10-S4	Gaz de France	L11a	pl
L11-B	Chevron	L11b	pl
L12-FC	NAM	L12b	pl
L13-FC	NAM	L13	pl
L13-FD	NAM	L13	pl
L13-FE	NAM	L13	pl
L13-FG	NAM	L13	pl
L15-FA	NAM	L15b	pl
Markham	CH4	J06	pl
P06-D	Wintershall	P06	pl
P06-Main	Wintershall	P06	pl
P06-South	Wintershall	P06	pl
P12-SW	Wintershall	P12	pl
P14-A	Wintershall	P14a	pl
P15-11	BP	P15a	pl
P15-12	BP	P15a	pl
P15-13	BP	P15a	pl
P15-14	BP	P15c	pl
P15-C	BP	P15a	pl
P15-E	BP	P15a	pl
P18-2	BP	P18a	pl
P18-4	BP	P18a	pl

Q01-B	Chevron	Q01	pl
Q04-A	Wintershall	Q04	pl
Q04-B	Wintershall	Q04	pl
Q05-A	Wintershall	Q05c	pl
Q16-FA	NAM	Q16a	pl
b) Underground gas storage			
Alkmaar PGI	BP	Bergen	
Grijpskerk	NAM	Groningen	
Norg	NAM	Drenthe	
II. UNDEVELOPED ACCUMULATIONS			
a) start of production expected between 2006 – 2010			
Accumulation*	Company	Licence name**	Type of licence
Ameland-Noord	NAM	M09a	pl
Assen	NAM	Drenthe	pl
Collendoorn	NAM	Hardenberg	pl
Een	NAM	Drenthe	pl
Hekelingen	NAM	Botlek	pl
Langebrug	NAM	Groningen	pl
Lauwersoog	NAM	Noord-Friesland	pl
Marumerlage	NAM	Groningen	pl
Nes	NAM	Noord-Friesland	pl
Noorderdam	NAM	Rijswijk	pl
Papekop			open
Rammelbeek	NAM	Twenthe	pl
Spijkenisse Oost	NAM	Botlek	pl
Spijkenisse West	NAM	Beijerland	pl
Surhuisterveen	NAM	Groningen	pl
Usquert	NAM	Groningen	pl
Vierhuizen	NAM	Noord-Friesland	pl
West Beemster	NAM	Middelie	pl
A12-FA	Chevron	A12a	pla
A18-FA	Chevron	A18a	pla
B10-FA	Chevron	A12b	pla
B13-FA	Chevron	B13a	pla
B16-FA	Chevron	B16a	pla
D18-FA	Gaz de France	D18a	pla
G14-A	Gaz de France	G14	pl
G14-B	Gaz de France	G14	pl
G16-FA	Gaz de France	G16a	pl
G17a-S1	Gaz de France	G17a	pl
K02-FA	Gaz de France	K02b	pl
K05-FW	Total	K5a	pl

K15-FE	NAM	K15	pl
K17-FA	NAM	K17	pl
L02-FB	NAM	L02	pl
L04-G	Total	L04a	pl
L06-FA	ATP	L06d	pl
L13-FF	NAM	L13	pl
M09-FB	NAM	N07a	pl
N07-FA	NAM	Noord-Friesland	pl
b) others			
Andel	NAM	Andel II	el
Beerta	NAM	Groningen	pl
Blesdijke	Vermilion	Steenwijk	pl
Boskoop	NAM	Rijswijk	pl
Brakel	NAM	Andel II	el
Buma	NAM	Drenthe	pl
Burum	NAM	Tietjerksteradeel	pl
Deurningen	NAM	Twenthe	pl
Donkerbroek	NAM	Donkerbroek	pl
Eesveen	Vermilion	Steenwijk	pl
Egmond Binnen	NAM	Middelie	pl
Exloo	NAM	Drenthe	pl
Gasselternijveen	NAM	Drenthe	pl
Geesbrug	NAM	Drenthe	pl
Grolloo	NAM	Drenthe	pl
Haakswold	NAM	Schoonebeek	pl
Harkema	NAM	Groningen	pl
Heiloo	BP	Bergen	pl
Hollum Ameland	NAM	Noord-Friesland	pl
Kerkwijk	NAM	Andel II	el
Kijkduin zee	NAM	Rijswijk	pl
Maasgeul	NAM	Botlek	pl
Midlaren	NAM	Groningen	pl
Molenaarsgraaf	NAM	Andel II	el
Nes noord	NAM	Noord-Friesland	pl
Nieuweschans	NAM	Groningen	pl
Nijega	Vermilion	Leeuwarden	pl
Oosterwolde			open
Oppenhuizen	NAM	Zuid-Friesland II	el
Rodewolt	NAM	Groningen	pl
Rustenburg	NAM	Middelie	pl
Schiermonnikoog Wad	NAM	Noord-Friesland	pl
Sonnega-Weststellingwerf	Vermilion	Steenwijk	pl
Ternaard	NAM	Noord-Friesland	pl
Terschelling noord		Terschelling	el
Terschelling west			open
Valthermond	NAM	Drenthe	pl

Vlagtwedde	NAM	Groningen	pl
Wassenaar-Diep	NAM	Rijswijk	pl
Werkendam Diep	NAM	Rijswijk	pl
Witten	NAM	Drenthe	pl
Zevenhuizen	NAM	Groningen	pl
Zevenhuizen West	NAM	Groningen	pl
A15-A	Wintershall	A15	el
B17-FA	Wintershall	B17a	pla
E12 Lelie		E12	open
E12 Tulp East		E12	open
E13 Epidoot		E13	open
E17-FA	Gaz de France	E17a	pla
F03-FA	NAM	F03	pl
F16-P	Wintershall	F16	pl
K4A-Z	Total	K04a	pl
K05-U	Total	K05b	pl
K08-FB	NAM	K08	pl
K08-FD	NAM	K08	pl
K08-FF	NAM	K08	pl
K14-FC	NAM	K14	pl
K15-FD	NAM	K15	pl
K15-FF	NAM	K15	pl
K15-FH	NAM	K15	pl
K15-FI	NAM	K15	pl
K15-FJ	NAM	K15	pl
K16-5		K16	open
K17-FB	NAM	K17	pl
K18-FB	Wintershall	K18b	pl
L02-FC	NAM	L02	pl
L04-D	Total	L04a	pl
L07-D	Total	L07	pl
L07-F	Total	L07	pl
L07-FN	Total	L07	pl
L08-D	Wintershall	L08a	pl
L09-FA	NAM	L09a	pl
L09-FB	NAM	L09a	pl
L09-FE	NAM	L09b	pl
L09-FG	NAM	L09a	pl
L09-FH	NAM	L09a	pl
L09-FJ	NAM	L09a	pl
L10-19	Gaz de France	L10	pl
L10-6	Gaz de France	L10	pl
L11-1	Gaz de France	L11a	pl
L11-7	Gaz de France	L11a	pl
L12-FA	NAM	L12a	pl
L12-FB	NAM	L12a	pl
L12-FD	NAM	L12a	pl

L13-FA	NAM	L13	pl
L13-FI	NAM	L13	pl
L13-FJ	NAM	L13	pl
L13-FK	NAM	L13	pl
L14-6		L14b	open
L16-Alpha	Wintershall	L16a	pl
L16-Bravo	Wintershall	L16a	pl
L16-FA	Wintershall	L16a	pl
M01-FA	Wintershall	M01a	pla
M07-FA	Wintershall	M07	pl
M09-FA	NAM	Noord-Friesland	pl
M11-FA		M11	open
P01-FA		P01	open
P01-FB		P01	open
P02-1		P02b	open
P02-5		P02a	open
P02-E		P02a	open
Q07-FA		Q10	open
Q13-FC		Q13	open

III. PRODUCTION CEASED

Accumulation*	Company	Licence name**	Type of licence
Akkrum 1		Akkrum	pla
Akkrum 3		Akkrum	pla
Akkrum 9		Akkrum	pla
Akkrum 11		Akkrum	pla
Akkrum 13		Akkrum	pla
De Lutte	NAM	Rossum-de Lutte	pl
Emshoern	NAM	Groningen	pl
Engwierum	NAM	Noord-Friesland	pl
Feerwerd	NAM	Groningen	pl
Franeker	Vermilion	Leeuwarden	pl
Hoogenweg	NAM	Hardenberg	pl
Houwerzijl	NAM	Groningen	pl
Leeuwarden 101 Rotliegend	Vermilion	Leeuwarden	pl
Leidschendam	NAM	Rijswijk	pl
Loon op Zand	Wintershall	Waalwijk	pl
Middelburen	Vermilion	Leeuwarden	pl
Middelie	NAM	Middelie	pl
Oldenzaal	NAM	Rossum-de Lutte	pl
Roden	NAM	Drenthe	pl
Sleen	NAM	Drenthe	pl
Starnmeer	BP	Bergen	pl
Warffum	NAM	Groningen	pl
Weststellingwerf	Vermilion	Gorredijk	pl
Wimmenum-Egmond	NAM	Middelie	pl

Zuid Schermer	BP	Bergen	pl
K08-FC	NAM	K08	pl
K10-B	Wintershall	K10a	pl
K10-C	Wintershall	K10a	pl
K10-V	Wintershall	K10b	pl
K11-B	NAM	K11	pl
K11-C	NAM	K11	pl
K11-FA	NAM	K11	pl
K12-A	Gaz de France	K12	pl
K12-E	Gaz de France	K12	pl
K12-S1	Gaz de France	K12	pl
K13-A		K13	open
K13-B		K13	open
K13-CF		K13	open
K13-DE		K13	open
K15-FB	NAM	K15	pl
K15-FC	NAM	K15	pl
L02-FA	NAM	L02	pl
L07-A	Total	L07	pl
L07-B	Total	L07	pl
L10-K	Gaz de France	L10	pl
L10-S1	Gaz de France	L10	pl
L10-S3	Gaz de France	L10	pl
L11-A	Gaz de France	L11a	pl
L11-Lark	Gaz de France	L11a	pl
L13-FB	NAM	L13	pl
L13-FH	NAM	L13	pl
L14-S		L14b	open
P02-NE		P02a	open
P02-SE		P02a	open
P12-C	Wintershall	P12	pl
P15-10	BP	P15c	pl
P15-15	BP	P15a	pl
Q08-A	Wintershall	Q08	pl
Q08-B	Wintershall	Q08	pl

* Name of the accumulation is conform the name used in the production licence application.

** Licence stands for the licence effective at the time the accumulation was discovered, however, an accumulation can straddle more than one licence (these are not indicated in this table).

*** Oilfield, the gas production from which makes up a significant part of the total gas production in the Netherlands.

el = exploration licence, pla = production licence application, pl = production licence.

EXPLORATION LICENCES, Netherlands Territory as at 1 January 2006

Licence holder	Licence	km ²	In force as from	Date licence expires	Netherlands Government Gazette
1 Nederlandse Aardolie Maatschappij B.V. - Chevron U.S.A. Inc. - Dyas B.V. - Petro-Canada Netherlands B.V. - R.D.S. Netherlands International Inc. - Total E&P Nederland B.V.	Zuid-Friesland II	727	30-06-79	n.v.t.	202 **
2 Nederlandse Aardolie Maatschappij B.V.	IJsselmeer	875	02-07-86	n.v.t.	148 **
	Markerwaard	572	20-04-89	n.v.t.	87 *
	Andel II	301	21-03-02	21-03-10	137
	Schagen	576	04-11-02	04-11-16	219
3 Total E&P Nederland B.V. - Dyas B.V. - Lundin Netherlands B.V. - Nederlandse Aardolie Maatschappij B.V.	Lemmer-Marknesse	633	09-03-98	09-03-06	62
Total		3 684			

* Licence awarded, not yet in force because of legal procedure.

** Licence revision awarded, not yet in force because of legal procedure.

PRODUCTION LICENCES, Netherlands Territory as at 1 January 2006

Licence holder	Licence	km ²	Awarded	Date licence expires	Netherlands Government Gazette
1 BP Nederland Energie B.V. - Dyas B.V. - Petro-Canada Netherlands B.V.	Bergen	252	01-05-69	Undefined	94
2 Nederlandse Aardolie Maatschappij B.V.	Schoonebeek	930	03-05-48	Undefined	110
	Tubbergen	177	11-03-53	Undefined	80
	Rijswijk	2 090	03-01-55	Undefined	21
	Rossum-de Lutte	46	12-05-61	Undefined	116
	Groningen	2 970	30-05-63	Undefined	126
	Drenthe	2 284	04-11-68	Undefined	234
	Tietjerksteradeel	411	17-02-69	Undefined	47
	Twenthe	276	27-01-77	Undefined	26
	Hardenberg	161	19-07-90	19-07-35	149
	Botlek	235	03-07-91	03-07-26	141
	Beijerland	140	11-12-96	14-02-27	243
3 Nederlandse Aardolie Maatschappij B.V. - ExxonMobil Producing Netherlands B.V.	Noord-Friesland	1593	17-02-69	Undefined	47
	De Marne	7	05-09-94	05-09-34	189
4 Nederlandse Aardolie Maatschappij B.V. - Wintershall Noordzee B.V. - Dyas B.V.	Middelie	946	01-05-69	Undefined	94
5 Nederlandse Aardolie Maatschappij B.V. - Bula Oil Netherlands B.V. - Lepco Oil & Gas Netherlands B.V.	Donkerbroek	70	20-03-95	20-03-10	66
6 Vermilion Oil & Gas Netherlands B.V.	Steenwijk	99	05-09-94	05-09-29	177
7 Vermilion Oil & Gas Netherlands B.V. - Lundin Netherlands B.V.	Leeuwarden	614	17-02-69	Undefined	46
	Slootdorp	162	01-05-69	Undefined	94
	Oosterend	92	23-03-85	Undefined	84
	Gorredijk	629	10-07-89	10-07-24	145
	Zuidwal	225	28-08-84	Undefined	190
8 Wintershall Noordzee B.V. - Essent Energy Gas Storage B.V.	Waalwijk	765	17-07-89	17-07-24	154
		Total	15 174		

STORAGE LICENCES, Netherlands Territory as at 1 January 2006

Licence holder	Licence	km²	In force as from
Nederlandse Aardolie Maatschappij B.V.	Grijpskerk	27	01-04-03
	Norg	81	01-04-03
BP Nederland Energie B.V.	Alkmaar	16	01-04-03
	Total	124	

EXPLORATION LICENCES, Netherlands Continental Shelf as at 1 January 2006

Licence holder	Block	km ²	In force as from/ relinquishment	Date licence expires	Netherlands Government Gazette
1 Denerco Oil A/S Talisman Energy Beta Ltd.	F9	400	15-03-03	26-04-09	54
	G7	122	15-03-03	26-04-09	54
2 GDF Production Nederland B.V. ConocoPhillips (U.K.) Limited DSM Energie B.V. Wintershall Noordzee B.V.	D18a	58	08-06-79/85	08-06-89*	117/106
3 GDF Production Nederland B.V. Lundin Netherlands B.V. Total E&P Nederland B.V.	E17a & E17b	114	09-03-93/99	09-03-03*	54/39
4 GDF Production Nederland B.V. EWE Aktiengesellschaft HPI Netherlands Ltd. Rosewood Exploration Ltd.	B18b	159	21-04-05	02-06-07	89/95
5 Nederlandse Aardolie Maatschappij B.V. Petro-Canada Netherlands B.V.	F6b	390	20-11-02	03-01-06	224
6 Petro-Canada Netherlands B.V.	P10b	350	25-02-05	18-03-06	51
	P11c	209	01-07-04	12-08-09	152
7 Total E&P Nederland B.V. Lundin Netherlands B.V.	F12	401	01-11-01	30-10-08	219
8 Unocal Netherlands B.V. DSM Energie B.V. Dyas B.V.	A12b & B10a	79	12-01-90/96	12-01-90*	129
	B16a	67	11-05-87/01	11-05-97*	127/233
9 Wintershall Noordzee B.V.	M1a	213	09-04-91/97	09-04-01*	93/99
10 Wintershall Noordzee B.V. CH4	K1b	323	15-04-05	27-05-07	74/93
11 Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L6a	332	22-08-03	03-10-10	162
12 Wintershall Noordzee B.V. GDF Production Nederland B.V.	F17a	387	15-07-05	26-08-09	135

Licence holder	Block	km²	In force as from/ relinquishment	Date licence expires	Netherlands Government Gazette
13 Wintershall Noordzee B.V. EWE Aktiengesellschaft	Q2a	332	04-09-01	26-09-06	183
14 Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. Cirrus Energy Nederland B.V.	A15a	66	28-09-05	24-02-07	189
15 Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. DSM Energie B.V. Petro-Canada Netherlands B.V.	B17a	80	02-06-87/93	02-07-97*	127/101
16 Wintershall Noordzee B.V. Burlington Resources Nederland Petr. B.V. GDF Production Nederland B.V.	F13b	399	01-01-03	31-12-09	223
	Total	4 481			

* licence holder has filed an application for a production licence

PRODUCTION LICENCES, Netherlands Continental Shelf as at 1 January 2006

	Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
1	ATP Oil & Gas (Netherlands) B.V.	L6d	16	07-03-03	19-04-13	48
2	BPNE Offshore B.V.	P18a	105	30-04-92	30-04-32	96
3	BPNE Offshore B.V. Wintershall Noordzee B.V. DSM Energie B.V. Dyas B.V. Oranje-Nassau Energie B.V. Van Dyke Netherlands Inc. Petro-Canada Netherlands B.V.	P15a & P15b	220	12-07-84	12-07-24	150
4	BPNE Offshore B.V. Wintershall Noordzee B.V. DSM Energie B.V. Dyas B.V. Oranje-Nassau Energie B.V. Petro-Canada Netherlands B.V.	P15c	202	07-05-92	07-05-32	114
5	BPNE Offshore B.V. Dyas B.V. Petro-Canada Netherlands B.V.	P18c	6	02-06-92	02-06-32	113
6	CH4 Nederland B.V. Total E&P Nederland B.V. Dyas Holland B.V.	J3b & J6	125	06-11-92	06-11-32	231
7	GDF Production Nederland B.V.	G16a	224	06-01-92	06-01-32	13
		G16b	5	11-10-03	06-01-32	198
		G17a	275	02-11-04	14-12-19	216
		K2b	110	24-08-98	24-08-23	165
		K3a	83	24-08-98	24-08-23	165
		K3c	32	26-11-05	07-01-21	233
8	GDF Production Nederland B.V. Nederlandse Aardolie Maatschappij B.V. DSM Energie B.V.	G14	403	02-11-04	14-12-19	216

	Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
9	GDF Production Nederland B.V. ConocoPhillips (U.K.) Limited Wintershall Noordzee B.V.	D15	247	06-09-96	06-09-21	180
10	GDF Production Nederland B.V. Wintershall Noordzee B.V.	G17c & G17d	130	10-11-00	10-11-25	14
11	GDF Production Nederland B.V. EWE Aktiengesellschaft HPI Netherlands Ltd. Rosewood Exploration Ltd.	K9a & K9b K9c	211 199	11-08-86 18-12-87	11-08-26 18-12-27	163 21
12	GDF Production Nederland B.V. EWE Aktiengesellschaft HPI Netherlands Ltd. Rosewood Exploration Ltd. GDF Participation Nederland B.V.	L10 & L11a	596	13-01-71	13-01-11	20
13	GDF Production Nederland B.V. EWE Aktiengesellschaft HPI Netherlands Ltd. Rosewood Exploration Ltd. Production North Sea Netherlands Ltd.	K12	411	18-02-83	18-02-23	53
14	GDF Production Nederland B.V. HPI Netherlands Ltd. Rosewood Exploration Ltd.	N7b	174	10-03-94 (23-12-03)	10-03-34	88 (252)
15	Nederlandse Aardolie Maatschappij B.V.	B18a F17c K2a K7 K14 K15 K17 L2 L4c L5a L9a L9b L15c	40 18 27 408 413 413 414 406 12 163 209 201 4	10-10-85 04-12-96 24-08-98 08-07-81 16-01-75 14-10-77 19-01-89 15-03-91 07-01-94 15-03-91 09-05-95 09-05-95 07-09-90	10-10-25 04-12-11 24-08-23 08-07-21 16-01-15 14-10-17 19-01-29 15-03-31 07-01-34 15-03-31 09-05-35 09-05-35 07-09-30	224 240 165 140 18 214 42 75 15 77 113 114 199

Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
	N7a	141	10-03-94 (23-1	10-03-34	88 252
16 Nederlandse Aardolie Maatschappij B.V. DSM Energie B.V.	F3	397	09-09-82	09-09-22	215
17 Nederlandse Aardolie Maatschappij B.V. Burlington Resources Nederland Petr. B.V. Wintershall Noordzee B.V. Oranje-Nassau Energie B.V.	K8 & K11 L12a L13	821 344 413	26-10-77 14-03-90 26-10-77	26-10-17 14-03-30 26-10-17	223 63 223
18 Nederlandse Aardolie Maatschappij B.V. Burlington Resources Nederland Petr. B.V. Wintershall Noordzee B.V.	L12b & L15b	184	12-03-90	12-03-30	63/199
19 Nederlandse Aardolie Maatschappij B.V. ExxonMobil Producing Netherlands B.V.	M9a	213	10-04-90	10-04-30	81
20 Nederlandse Aardolie Maatschappij B.V. Lundin Netherlands B.V. Total E & P Nederland B.V.	Q16a	85	29-12-92	29-12-32	6
21 Petro-Canada Netherlands B.V.	P10a P11b	5 210	31-05-05 03-04-04	12-07-20 15-05-19	102 67
22 Petro-Canada Netherlands B.V. DSM Energie B.V. Dyas B.V. EDC (Europe) Ltd. Oranje-Nassau Energie B.V.	F2a	307	24-08-82	24-08-22	215
23 Total E&P Nederland B.V.	K4a L1d	307 7	29-12-93 13-11-96	29-12-33 13-11-16	5 225
24 Total E&P Nederland B.V. Lundin Netherlands B.V. DSM Energie B.V.	F6a	8	09-09-82	09-09-22	215
25 Total E&P Nederland B.V. Lundin Netherlands B.V. Dyas Nederland B.V. Oranje-Nassau Energie B.V.	F15a F15d	234 4	06-05-91 15-06-92	06-05-31 15-06-32	95 148

	Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
26	Total E&P Nederland B.V.	J3a	72	12-01-96	12-01-36	22
	Nederlandse Aardolie Maatschappij B.V.	K1a	83	10-02-97	10-02-22	46
27	Total E&P Nederland B.V.	K3b	7	30-01-01	30-01-21	29
	Lundin Netherlands B.V.	K3d	26	01-04-99	01-04-24	76
		K6 & L7	818	20-06-75	20-06-15	126
		L1e	12	13-11-96	13-11-11	226
		L4a	313	30-12-81	30-12-21	82('82)
		L1f	17	01-01-03	16-01-33	235
28	Total E&P Nederland B.V.	K4b & K5a	305	01-06-93	01-06-33	114
	Lundin Netherlands B.V.					
	Dyas B.V.					
	Goal Petroleum (Netherlands) B.V.					
29	Total E&P Nederland B.V.	K5b	204	07-11-96	07-11-21	225
	Goal Petroleum (Netherlands) B.V.	K2c	47	21-01-04	07-11-21	16
	Rosewood Exploration Ltd.					
30	Total E&P Nederland B.V.	L1a	30	12-09-96	12-09-16	187
	Van Dyke Netherlands Inc.					
31	Unocal Netherlands B.V.	L11b	47	15-06-84	15-06-24	130
	DSM Energie B.V.					
32	Unocal Netherlands B.V.	A12a	195	01-07-2005	12-08-25	129
	DSM Energie B.V.	A12d	33	01-07-2005	12-08-25	129
	Dyas B.V.	A18a	229	01-07-2005	12-08-25	129
		A18c	47	01-07-2005	12-08-25	129
		B10c & B13a	252	01-07-2005	12-08-25	129
33	Unocal Netherlands B.V.	P9a & P9b	126	16-08-93	16-08-33	160
	Wintershall Noordzee B.V.					
	DSM Energie B.V.					
	Dyas B.V.					
	Dyas Holland B.V.					
	Aceiro Netherlands B.V.					
34	Unocal Netherlands B.V.	P9c	267	16-08-93	16-08-33	160
	Wintershall Noordzee B.V.					
	DSM Energie B.V.					
	Dyas B.V.					

	Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
	Dyas Holland B.V.					
35	Unocal Netherlands B.V. DSM Energie B.V. Wintershall Noordzee B.V.	Q1	416	11-07-80	11-07-20	138
36	Unocal Netherlands B.V. DSM Energie B.V. Dyas B.V.	Q2c	32	14-07-94	14-07-34	150
37	Wintershall Noordzee B.V.	P11a	2	23-06-92	23-06-32	148
38	Wintershall Noordzee B.V. GDF Participation Nederland B.V.	D12a	214	06-09-96	06-09-21	180
39	Wintershall Noordzee B.V. Burlington Resources Nederland Petr. B.V. Dana Petroleum (E & P) Limited GDF Production Nederland B.V. Goal Petroleum (Netherlands) B.V.	E15a E18a F13a	39 212 4	04-10-02 04-10-02 04-10-02	24-09-32 24-09-32 24-09-32	199 199 199
40	Wintershall Noordzee B.V. GDF Production Nederland B.V.	F16	405	04-10-02	24-09-32	199
41	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	K10a K10b & K10c P14a	195 94 317	26-01-83 22-04-93 23-06-92	26-01-23 22-04-33 23-06-32	28 84 148
42	Wintershall Noordzee B.V. Dyas B.V. Nederlandse Aardolie Maatschappij B.V. Petro-Canada Netherlands B.V.	K18a & K18b L16a	191 238	09-05-83 12-06-84	09-05-23 12-06-24	103 130
43	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L5c L8b L5b L6b	8 181 237 60	03-12-96 17-05-93 28-06-03 01-07-03	03-12-16 17-05-33 12-08-38 13-08-38	19 105 134 134
44	Wintershall Noordzee B.V. EWE Aktiengesellschaft	L8a	213	18-08-88	18-08-28	171
45	Wintershall Noordzee B.V.	M7	410	22-03-01	22-03-21	66

	Licence holder	Block	km²	In force as from	Date licence expires	Netherlands Government Gazette
	DSM Energie B.V. Nederlandse Aardolie Maatschappij B.V. EWE Aktiengesellschaft					
46	Wintershall Noordzee B.V. Dyas Holland B.V. Dyas B.V.	P6	417	14-04-82	14-04-22	83
47	Wintershall Noordzee B.V. Dyas B.V. Dyas Holland B.V.	P12	421	08-03-90	08-03-30	78
48	Wintershall Noordzee B.V. Burlington Resources Nederland Petr. B.V. Dyas B.V.	Q4	417	02-12-99	02-12-19	2
49	Wintershall Noordzee B.V. Burlington Resources Nederland Petr. B.V. Dyas B.V.	Q5c, Q5d & Q5e Q5e	146	15-02-01	15-02-21	46
50	Wintershall Noordzee B.V. Dyas B.V.	Q8	247	15-09-86	15-09-26	187
		Total	18 428			

**PRODUCTION LICENCE APPLICATIONS, Netherlands Continental Shelf
as at 1 January 2006**

Licence applicant	Block/ part of block	Date of publication	Netherlands Government Gazette
Unocal Netherlands B.V.	B16a	08-06-93	105
	Part of B16 (revision)	30-11-01	233
Wintershall cs	B17a	09-06-97	106
GDF Production Ned. cs	D18a	24-07-97	139
Unocal	A12b & B10a	01-02-00	22
GDF Production Ned. cs	Part of E16	12-11-01	219
GDF Production Ned. cs	Part of E17	12-11-01	219
Wintershall Noordzee B.V.	M1a	11-05-01	91
Nido Petroleum	Q13	04-03-05	45
Applicant not yet published	P8		

LIST OF BLOCKS, Netherlands Continental Shelf as at 1 January 2006

Block/ Part of block	Area not in licence (km²)	Exploration licence (km²)	Production licence (km²)	Licence holder
A 4	< 0,5			
A 5	91			
A 7	47			
A 8	382			
A 9	141			
A 10	129			
A 11	392			
A 12a			195	Unocal cs
A 12b		31		Unocal cs
A 12c	131			
A 12d			33	Unocal cs
A 13	211			
A 14	393			
A 15a		67		Wintershall cs
A15b	327			
A 16	294			
A 17	395			
A 18a			229	Unocal cs
A 18b	119			
A 18c			47	Unocal cs
B 10a		48		Unocal cs
B 10b	84			
B 10c			46	Unocal cs
B 13a			206	Unocal cs
B 13b	187			
B 14	199			
B 16a		67		Unocal cs
B 16b	328			
B 17a		80		Wintershall cs
B 17b	315			
B 18a			40	NAM
B 18b		159		GDF Production cs
D 3	2			
D 6	60			
D 9	149			
D 12a			214	Wintershall cs
D 12b	40			
D 15			247	GDF Production cs
D 18a		58		GDF Production cs

Block/ Part of block	Area not in licence (km ²)	Exploration licence (km ²)	Production licence (km ²)	Licence holder
D 18b	140			
E 1	374			
E 2	397			
E 3	397			
E 4	398			
E 5	398			
E 6	398			
E 7	400			
E 8	400			
E 9	400			
E 10	401			
E 11	401			
E 12	401			
E 13	403			
E 14	403			
E 15a			39	Wintershall cs
E 15b	364			
E 16	405			
E 17a		87		GDF Production cs
E 17b		27		GDF Production cs
E 17c	291			
E 18a			212	Wintershall cs
E 18b	193			
F 1	397			
F 2a			307	Petro-Canada Neth.cs
F 2b	90			
F 3			397	NAM cs
F 4	398			
F 5	398			
F 6a			8	Total cs
F 6b		390		NAM
F 7	400			
F 8	400			
F 9		400		Denerco cs
F 10	401			
F 11	401			
F 12		401		Total cs
F 13a			4	Wintershall cs
F 13b		399		Wintershall cs
F 14	403			
F 15a			234	Total cs
F 15b	72			

Block/ Part of block	Area not in licence (km ²)	Exploration licence (km ²)	Production licence (km ²)	Licence holder
F 15c	93			
F 15d			4	Total cs
F 16			405	Wintershall cs
F 17a		387		Wintershall cs
F 17c			18	NAM
F 18	405			
G 7		122		Denerco cs
G 10	397			
G 11	174			
G 13	403			
G 14			403	GDF Production cs
G 15	226			
G 16a			224	GDF Production cs
G 16b			5	GDF Production cs
G 16c	176			
G 17a			275	GDF Production cs
G 17c			34	GDF Production cs
G 17d			96	GDF Production cs
G 18	405			
H 13	1			
H 16	72			
J 3a			72	Total cs
J 3b			42	CH4 Nederland cs
J 3c	31			
J 6			83	CH4 Nederland cs
J 9	18			
K 1a			83	Total cs
K 1b		323		Wintershall cs
K 2a			27	NAM
K 2b			110	GDF Production
K 2c			47	Total cs
K 2d	222			
K 3a			83	GDF Production cs
K 3b			7	Total cs
K 3c			32	GDF Production
K 3d			26	Total cs
K 3e	258			
K 4a			307	Total
K 4b			101	Total cs

Block/ Part of block	Area not in licence (km ²)	Exploration licence (km ²)	Production licence (km ²)	Licence holder
K 5a			204	Total cs
K 5b			204	Total cs
K 6			408	Total cs
K 7			408	NAM
K 8			410	NAM cs
K 9a			150	GDF Production cs
K 9b			61	GDF Production cs
K 9c			199	GDF Production cs
K 10a			195	Wintershall cs
K 10b			68	Wintershall cs
K 10c			26	Wintershall cs
K 10d	86			
K 11			411	NAM cs
K 12			411	GDF Production cs
K 13	324			
K 14			413	NAM
K 15			413	NAM
K 16	267			
K 17			414	NAM
K 18a			36	Wintershall cs
K 18b			155	Wintershall cs
K 18c	223			
L 1a			30	Total cs
L 1b	340			
L 1d			7	Total
L 1e			12	Total cs
L 1f			17	Total cs
L 2			406	NAM
L 3	406			
L 4a			313	Total cs
L 4b	83			
L 4c			12	NAM
L 5a			163	NAM
L 5b			237	Wintershall cs
L 5c			8	Wintershall cs
L 6a		332		Wintershall cs
L 6b			60	Wintershall cs
L 6d			16	ATP Oil & Gas
L 7			410	Total cs
L 8a			213	Wintershall cs
L 8b			181	Wintershall cs
L 8c	16			
L 9a			209	NAM

Block/ Part of block	Area not in licence (km²)	Exploration licence (km²)	Production licence (km²)	Licence holder
L 9b			201	NAM
L 10			411	GDF Production cs
L 11a			185	GDF Production cs
L 11b			47	Unocal cs
L 11c	179			
L 12a			344	NAM cs
L 12b			67	NAM cs
L 13			413	NAM cs
L 14	413			
L 15a	81			
L 15b			117	NAM cs
L 15c			4	NAM
L 16a			238	Wintershall cs
L 16b	176			
L 17	394			
L 18	13			
M 1a		213		Wintershall
M 1b	193			Wintershall
M 2	406			
M 3	406			
M 4	408			Wintershall
M 5	408			
M 6	408			
M 7			410	Wintershall cs
M 8	405			
M 9a			213	NAM cs
M 9b	158			
M 10	222			
M 11	28			
N 1	217			
N 4	381			
N 5	14			
N 7 a			141	NAM
N 7b			174	GDF Production cs
N 8	34			
O 12	2			
O 15	143			
O 17	2			
O 18	367			
P 1	209			

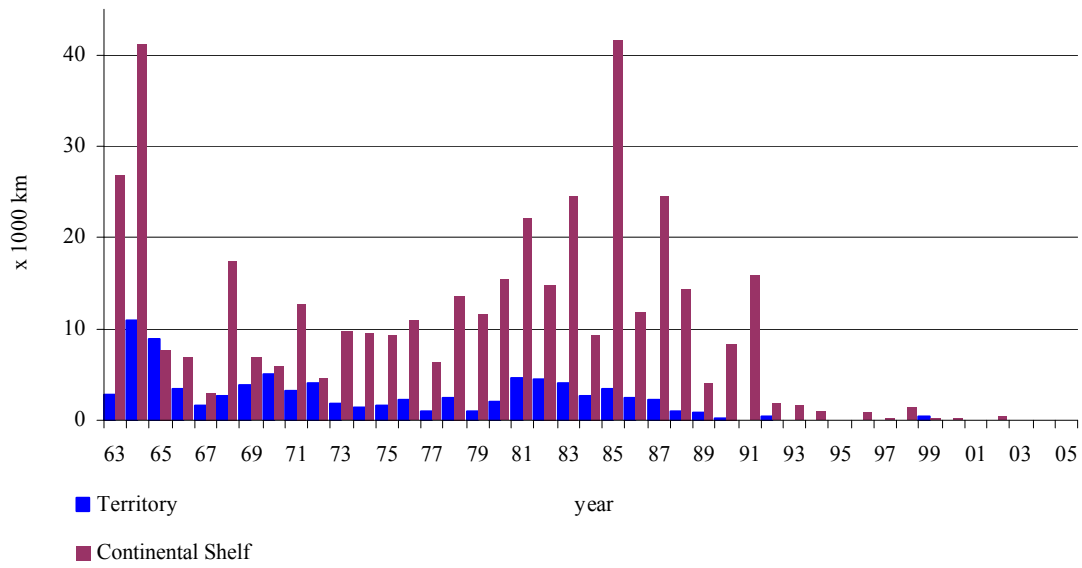
Block/ Part of block	Area not in licence (km ²)	Exploration licence (km ²)	Production licence (km ²)	Licence holder
P 2	416			
P 3	416			
P 4	170			
P 5	417			
P 6			417	Wintershall cs
P 7	222			
P 8	419			
P 9a			59	Unocal cs
P 9b			67	Unocal cs
P 9c			267	Unocal cs
P 9d	26			
P 10a			5	Petro-Canada Neth.
P 10b		350		Petro-Canada Neth.
P 11a			2	Wintershall
P 11b			210	Petro-Canada Neth.
P 11c		209		Petro-Canada Neth.
P 12			421	Wintershall cs
P 13	422			
P 14a			317	Wintershall
P 14b	105			
P 15a			203	BPNE offshore cs
P 15b			17	BPNE offshore cs
P 15c			202	BPNE offshore cs
P 16	424			
P 17	424			
P 18a			105	BPNE offshore
P 18b	313			
P 18c			6	BPNE offshore cs
Q 1			416	Unocal cs
Q 2a		332		Wintershall cs
Q 2c			32	Unocal cs
Q 4			417	Wintershall cs
Q 5a	< 0,5			
Q 5b	104			
Q 5c			98	Wintershall cs
Q 5d			44	Wintershall cs
Q 5e			4	Wintershall cs
Q 5f	48			
Q 5i	< 0,5			
Q 7	419			
Q 8			247	Wintershall cs
Q 10	422			
Q 11	162			

Block/ Part of block	Area not in licence (km²)	Exploration licence (km²)	Production licence (km²)	Licence holder
Q 13	399			
Q 14	25			
Q 16a			85	NAM cs
Q 16b	80			
R 2	103			
R 3	425			
R 5	7			
R 6	311			
R 9	28			
S 1	425			
S 2	425			
S 3	340			
S 4	427			
S 5	378			
S 6	45			
S 7	360			
S 8	129			
S 10	36			
S 11	< 0,5			
T 1	1			
Total	33 941	4 481	18 428	

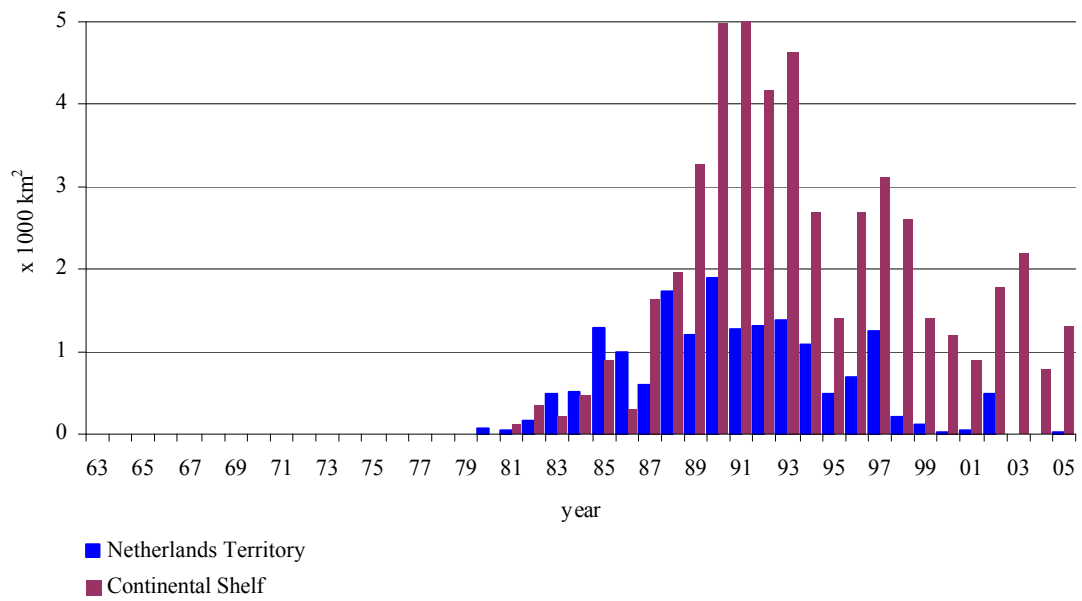
SEISMIC SURVEYS

Year	Netherlands Territory		Continental Shelf	
	2 D line km	3 D area in km ²	2 D line km	3 D area in km ²
63	2 860	-	26 778	-
64	10 992	-	41 136	-
1965	8 885	-	7 707	-
66	3 510	-	6 939	-
67	1 673	-	3 034	-
68	2 541	-	17 349	-
69	3 857	-	6 846	-
1970	5 113	-	5 780	-
71	3 252	-	12 849	-
72	4 034	-	4 716	-
73	1 783	-	9 708	-
74	1 422	-	9 536	-
1975	1 706	-	9 413	-
76	2 318	-	10 963	-
77	948	-	6 184	-
78	2 466	-	13 568	-
79	986	-	11 575	-
1980	2 017	76	15 497	-
81	4 627	37	22 192	110
82	4 363	170	14 791	337
83	3 980	478	24 498	208
84	2 523	512	9 314	455
1985	3 480	1 282	41 593	892
86	2 386	993	11 795	296
87	2 243	601	24 592	1 637
88	1 103	1 726	14 356	1 958
89	828	1 206	4 033	3 264
1990	160	1 889	8 288	4 972
91	-	1 268	15 853	5 002
92	388	1 307	1 799	4 173
93	-	1 382	1 591	4 637
94	-	1 074	1 089	2 694
1995	-	491	-	1 408
96	-	689	892	2 686
97	-	1 236	260	3 101
98	-	214	1 383	2 603
99	43	124	181	1 409
2000	-	33	160	1 189
01	5	47	-	898
02	-	-	495	1 778
03	-	-	-	2 185
04	-	-	34	790
2005	-	32	-	1 314

2D Seismic surveys 1963 – 2005



3D Seismic surveys 1963 – 2005



OIL AND GAS WELLS, number of wells Netherlands Territory

Year	Exploration					Appraisal					Production
	O	G	G&O	D	à	O	G	G&O	D	à	
Up to 1967	2	26	-	61	89	-	8	-	4	12	278
68	-	3	-	4	7	-	2	-	2	4	23
69	-	2	-	11	13	-	2	-	1	3	27
1970	-	3	-	11	14	-	1	-	-	1	25
71	-	3	-	9	12	-	3	-	1	4	55
72	-	3	-	7	10	-	-	-	2	2	64
73	-	2	-	2	4	-	1	-	-	1	46
74	-	-	-	2	2	-	4	-	1	5	50
1975	-	3	-	5	8	-	-	-	2	2	48
76	-	2	-	5	7	-	12	-	-	12	37
77	-	3	-	4	7	2	10	-	1	13	14
78	-	2	-	4	6	-	20	-	-	20	36
79	-	4	-	2	6	2	11	-	2	15	42
1980	1	2	-	2	5	2	16	-	4	22	33
81	2	2	-	11	15	5	7	-	2	14	23
82	-	5	-	9	14	-	8	-	2	10	14
83	-	4	-	4	8	1	13	-	1	15	8
84	1	6	-	7	14	4	8	-	4	16	32
1985	1	5	-	9	15	2	10	-	-	12	34
86	-	2	-	10	12	-	3	-	-	3	35
87	-	1	2	6	9	-	1	-	-	1	22
88	-	5	1	2	8	1	4	-	-	5	17
89	-	2	1	6	9	2	5	-	-	7	11
1990	-	3	1	4	8	-	3	1	1	5	17
91	-	7	1	3	11	-	3	-	1	4	11
92	-	5	2	4	11	-	1	-	-	1	12
93	-	8	-	2	10	-	-	-	-	-	11
94	-	4	-	1	5	2	2	-	1	5	4
1995	-	3	-	10	13	-	3	-	-	3	14
96	-	2	-	3	5	2	3	-	2	7	30
97	-	8	-	3	11	-	6	-	-	6	12
98	-	7	-	4	11	-	7	-	-	7	8
99	-	2	-	3	5	-	3	-	-	3	7
2000	-	2	-	-	2	-	2	-	-	2	5
01	-	2	-	1	3	-	-	-	-	-	6
02	-	1	-	3	4	-	1	-	-	1	5
03	-	1	-	2	3	-	-	-	-	-	7
04	-	-	-	-	-	-	1	-	-	1	1
2005	-	2	-	1	3	-	-	-	-	-	3
Total:	7	147	8	237	399	25	184	1	34	244	1 127

D = dry
G = gas
G&O = gas and oil

O = oil
Σ = total

OIL AND GAS WELLS, number of wells Netherlands Continental Shelf

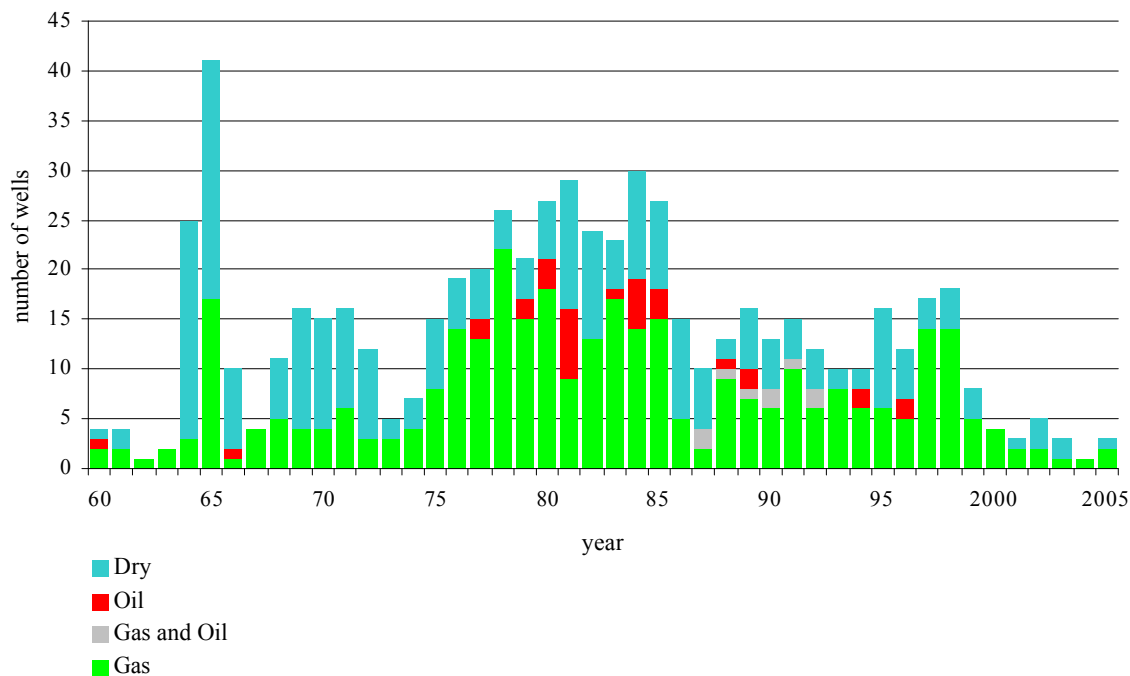
Year	Exploration					Appraisal					Production
	O	G	G&O	D	à	O	G	G&O	D	à	à
up to 1967		-	-	3	3	-	-	-	-	-	-
68	-	2	-	5	7	-	-	-	-	-	-
69	-	2	-	13	15	-	-	-	1	1	-
1970	-	6	-	7	14	-	-	-	-	-	-
71	1	3	-	15	18	1	-	-	-	1	-
72	-	10	-	6	16	-	-	-	1	1	-
73	-	4	-	13	17	-	1	-	1	2	2
74	-	7	-	8	16	-	1	-	-	1	9
1975	1	6	-	9	15	-	1	-	2	3	12
76	-	5	-	11	16	1	2	-	-	3	14
77	-	3	-	20	23	1	3	-	1	5	18
78	-	4	-	14	18	1	2	-	2	5	14
79	-	7	-	9	17	-	3	-	1	4	9
1980	1	6	-	16	26	2	2	-	1	5	7
81	4	3	-	11	15	6	5	-	6	17	5
82	1	6	-	22	35	1	6	-	3	10	20
83	7	3	-	27	31	1	2	-	9	12	15
84	1	6	-	19	26	3	1	-	3	7	24
1985	1	9	-	24	36	2	4	-	1	7	35
86	3	9	-	14	25	2	2	-	1	5	15
87	2	9	1	12	22	1	2	1	1	5	13
88	-	12	1	8	21	-	4	-	1	5	21
89	-	10	-	13	23	-	4	-	1	5	17
1990	-	8	-	21	29	-	6	-	-	6	14
91	-	15	-	26	43	-	2	-	-	2	18
92	2	8	-	11	19	-	-	-	1	1	15
93	-	3	-	10	13	-	1	-	-	1	17
94	-	4	-	5	10	1	1	-	-	2	10
1995	1	2	-	3	5	-	1	1	1	3	16
96	-	10	1	12	24	-	5	-	-	5	6
97	1	7	-	13	21	1	8	-	1	10	13
98	1	9	-	8	17	1	1	-	1	3	13
99	-	7	-	5	12	-	1	-	1	2	6
2000	-	4	-	2	6	-	6	-	-	6	9
01	-	9	-	6	15	-	2	-	2	4	12
02	-	6	-	10	16	-	1	-	2	3	13
03	-	6	-	1	7	-	3	-	1	4	13
04	-	7	-	4	11	-	2	-	-	2	6
2005	-	3	-	1	4	-	1	-	-	1	8
-											
Total:	27	240	3	437	706	25	86	2	46	159	439

D = dry
G = gas
G&O = gas and oil

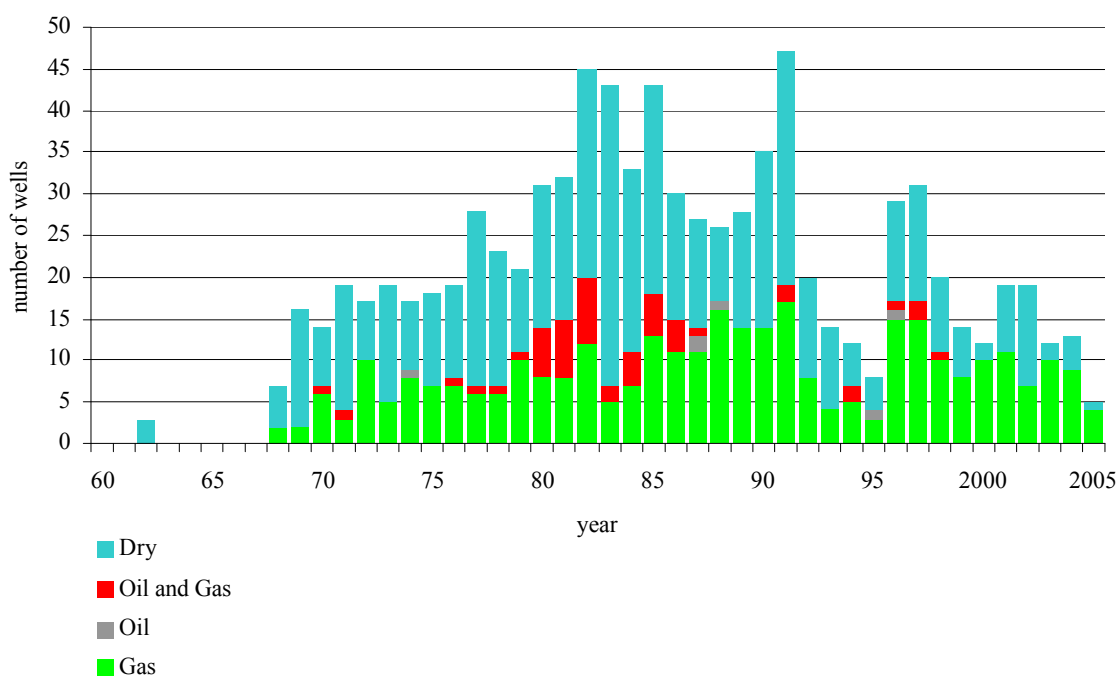
O = oil
Σ = total

NUMBER OF WELLS (GRAPHS), Netherlands Territory and Continental Shelf

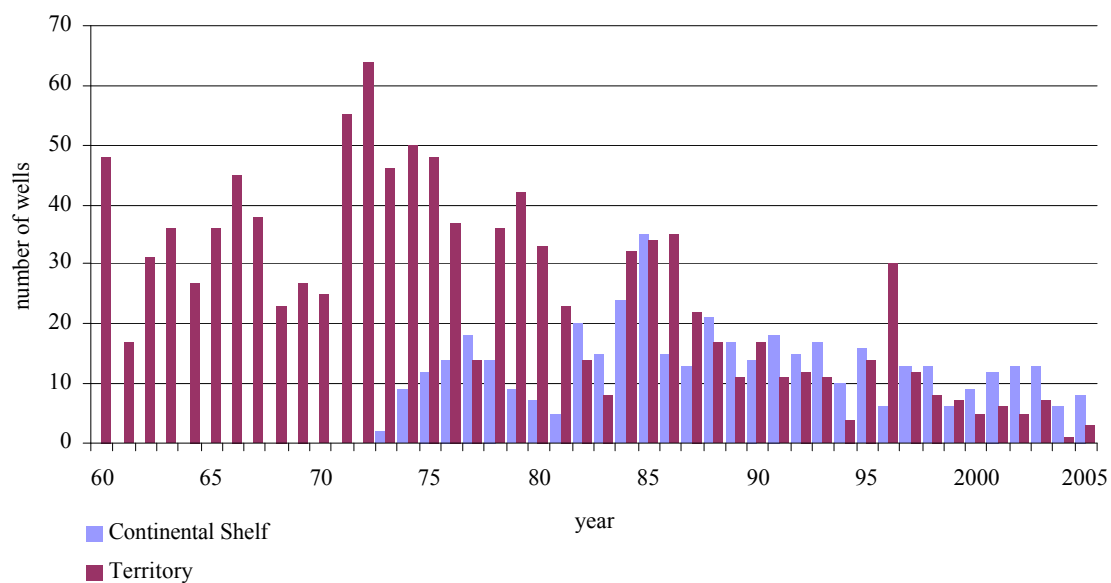
Exploration and appraisal wells, Netherlands Territory 1960 – 2005



Exploration and appraisal wells, Continental Shelf 1960 – 2005



Production wells 1960 – 2005



PLATFORMS, Netherlands Continental Shelf as at 1 January 2006

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
K13-A	Wintershall	1974	8	G	production/compression
K13-A	Wintershall	1974	4	G	wellhead
L10-A	Gaz de France	1974	8	G	production
L10-A	Gaz de France	1974	10	G	wellhead/compression
L10-A	Gaz de France	1974	4	G	riser
L10-B	Gaz de France	1974	4	G	satellite
L10-C	Gaz de France	1974	4	G	satellite
K14-FA-1	NAM	1975	10	G	integrated
L7-B	Total	1975	4	G	integrated
K15-FA-1	NAM	1977	10	G	integrated
K8-FA-1	NAM	1977	10	G	integrated
K8-FA-2	NAM	1977	4	G	satellite
L10-D	Gaz de France	1977	4	G	satellite
L10-E	Gaz de France	1977	4	G	satellite
L7-C(C)	Total	1977	4	G	wellhead
L7-C(P)	Total	1977	8	G	production
L7-C(Q)	Total	1977	4	--	accommodation
K15-FB-1	NAM	1978	10	G	integrated
L7-BB	Total	1978	4	G	wellhead
K7-FA-1	NAM	1980	4	G	wellhead
L10-BB	Gaz de France	1980	3	G	wellhead
L10-F	Gaz de France	1980	4	G	satellite
K10-B	Wintershall	1981	6	G	production
K10-B	Wintershall	1981	6	G	wellhead
L4-A(PA)	Total	1981	8	G	integrated
Q1-HELM	Unocal	1981	6	O	production
Q1-HELM	Unocal	1981	4	O	wellhead
K7-FA-1	NAM	1982	6	G	production
P6-A	Wintershall	1982	8	G	integrated
Q1-HELDER-A	Unocal	1982	6	O	production
Q1-HELDER-A	Unocal	1982	4	O	wellhead
K12-A	Gaz de France	1983	4	G	satellite
L7-C(PK)	Total	1983	4	G	compression
Q1-HOORN	Unocal	1983	6	O	production
Q1-HOORN	Unocal	1983	4	O	wellhead
K12-C	Gaz de France	1984	4	G	satellite
K18-KOTTER	Wintershall	1984	8	O	production
K18-KOTTER	Wintershall	1984	6	O	wellhead
K8-FA-3	NAM	1984	6	G	satellite
L10-EE	Gaz de France	1984	3	G	wellhead
L10-G	Gaz de France	1984	4	G	satellite
L4-B	Total	1984	4	G	wellhead

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
L7-A	Total	1984	4	G	satellite
AWG-1	NAM	1985	3	G	riser
AWG-1P	NAM	1985	6	G	production
AWG-1W	NAM	1985	4	G	wellhead
K12-D	Gaz de France	1985	4	G	satellite
K14-FA-1C	NAM	1985	8	G	compression
L16-LOGGER	Wintershall	1985	4	O	production
L16-LOGGER	Wintershall	1985	4	O	wellhead
P15-RIJN-A	BP	1985	4	O	wellhead
P15-RIJN-C	BP	1985	6	O	production
P6-B	Wintershall	1985	4	G	satellite
K12-E	Gaz de France	1986	4	G	satellite
L11b-A	Unocal	1986	4	G	integrated
L13-FC-1	NAM	1986	4	G	wellhead
L13-FC-1	NAM	1986	6	G	production
Q8-A	Wintershall	1986	3	G	wellhead
K12-BD	Gaz de France	1987	4	G	wellhead
K12-BP	Gaz de France	1987	8	G	production
K9ab-A	Gaz de France	1987	4	G	integrated
K9c-A	Gaz de France	1987	4	G	integrated
L10-AC	Gaz de France	1987	4	G	compression
Zuidwal	Total	1987	8	G	wellhead
K12-CC	Gaz de France	1988	4	G	compression
L10-L	Gaz de France	1988	4	G	satellite
L10-S-1	Gaz de France	1988	-	G	subsea completion
L13-FD-1	NAM	1988	4	G	satellite
L7-N	Total	1988	4	G	satellite
L8-A	Wintershall	1988	4	G	satellite
L8-G	Wintershall	1988	6	G	integrated
L8-H	Wintershall	1988	4	G	satellite
K15-FC-1	NAM	1989	4	G	satellite
L13-FE-1	NAM	1989	4	G	satellite
L7-H	Total	1989	4	G	satellite
Q1-HAVEN-A	Unocal	1989	1	O	satellite
K15-FG-1	NAM	1990	4	G	satellite
L11a-A	Gaz de France	1990	4	--	jacket
P12-SW	Wintershall	1990	4	G	satellite
AME-2	NAM	1991	4	G	wellhead
AME-2	NAM	1991	4	G	production
K12-S1	Gaz de France	1991	-	G	subsea completion
K6-D	Total	1991	4	G	wellhead
K6-P	Total	1991	4	G	production
L2-FA-1	NAM	1991	6	G	integrated
F15-A	Total	1992	6	G	integrated
F3-FB-1P	NAM	1992	3+GBS	G+O	integrated

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
J6-A	ENI	1992	6	G	integrated
K6-C	Total	1992	4	G	wellhead/riser
K6-DN	Total	1992	4	G	satellite
L5-FA-1	NAM	1992	6	G	integrated
P15-10S	BP	1992	-	G	subsea completion
P15-12S	BP	1992	-	G	subsea completion
P15-14S	BP	1992	-	G	subsea completion
F3-FB-AP	NAM	1993	3	G+O	accommodation
F3-OLT	NAM	1993	1	O	offshore loading tower
K10-V	Wintershall	1993	4	G	satellite
K6-N	Total	1993	4	G	satellite
L15-FA-1	NAM	1993	6	G	integrated
P14-A	Wintershall	1993	4	G	satellite
P15-D	BP	1993	6	G	production
P15-E	BP	1993	4	G	satellite
P15-F	BP	1993	4	G	satellite
P15-G	BP	1993	4	G	satellite
P18-A	BP	1993	4	G	satellite
P9-Horizon	Unocal	1993	4	O	integrated
P9-Seafox-1	Unocal	1993	4	O	accommodation
K5-A	Total	1994	4	G	wellhead
K5-D	Total	1994	4	G	satellite
K5-P	Total	1994	4	G	production
L8-P	Wintershall	1994	4	G	satellite
Q8-B	Wintershall	1994	4	G	satellite
K11-B	Gaz de France	1995	4	G	satellite
K5-B	Total	1995	4	G	satellite
L13-FH-1	NAM	1995	-	G	subsea completion
Q1-Halfweg	Unocal	1995	4+GBS	G	satellite
K14-FB-1	NAM	1997	4	G	satellite
K4a-D	Total	1997	-	G	subsea completion
K5-EN/C	Total	1997	4	G	satellite
L10-S-2	Gaz de France	1997	-	G	subsea completion
L10-S-3	Gaz de France	1997	-	G	subsea completion
L10-S-4	Gaz de France	1997	-	G	subsea completion
N7-FA-SP	NAM	1997	1	G	satellite
P2-NE	Wintershall	1997	4	G	satellite
P6-S	Wintershall	1997	4	G	satellite
K4-A	Total	1998	4	G	satellite
K6-GT	Total	1998	4	G	satellite
K7-FD-1	NAM	1998	4	G	satellite
L9-FF-1P	NAM	1998	6	G	production
L9-FF-1W	NAM	1998	4	G	wellhead
Q16-FA-1	NAM	1998	-	G	subsea completion
D15-FA-1	NAM	1999	6	G	integrated

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
K9ab-B	Gaz de France	1999	4	G	satellite
L4-PN	Total	1999	4	G	satellite
F2-A-Hanze	Petro-Canada	2000	GBS	G+O	integrated
K4-BE	Total	2000	4	G	satellite
L10-M	Gaz de France	2000	4	G	satellite
L8-A-west	Wintershall	2000	-	G	subsea completion
L8-P4	Wintershall	2000	4	G	integrated
Q4-A	Wintershall	2000	4	G	satellite
P6-D	Wintershall	2001	4	G	satellite
K12-G	Gaz de France	2001	4	G	satellite
G17d-A	Gaz de France	2001	4	G	jacket
K8-FA-1P	NAM	2001	4	--	accommodation
K1-A	Total	2001	4	G	satellite
G17d-A	Gaz de France	2002	4	G	satellite
K12-S2	Gaz de France	2002	-	G	subsea completion
K15-FK-1	NAM	2002	4	G	satellite
K5-PK	Total	2002	4	G	satellite
Q4-B	Wintershall	2002	4	G	satellite
K7-FB-1	NAM	2003	4	G	satellite
K12-S3	Gaz de France	2003	0	G	subsea completion
L5-B	Wintershall	2003	4	G	satellite
Q4-C	Wintershall	2003	4	G	satellite
D12-A	Wintershall	2004	4	G	satellite
Q5-A1	Wintershall	2004	-	G	subsea completion
F16-A	Wintershall	2005	6	G	integrated
G14-A	Gaz de France	2005	4	G	satellite
G16-A	Gaz de France	2005	4	G	satellite
G17a-S1	Gaz de France	2005	-		subsea completion
G17d-AP	Gaz de France	2005	4	G	production
K2b-A	Gaz de France	2005	4	G	satellite
K17-FA-1	NAM	2005	1	G	satellite
L4-G	Total	2005	-	G	subsea completion
L6d-2	ATP	2005	-	G	subsea completion

G* = Gas

O* = Oil

GBS = Gravity Based Structure

PIPELINES, Netherlands Continental Shelf as at 1 January 2006

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Gaz de France	L10-C	L10-AP	10.75 * 2.375	1974	1.1	g + m
Gaz de France	L10-B	L10-AP	10.75 * 2.375	1974	7.4	g + m
NGT	L10-AR	Uithuizen	36	1975	179.0	g
Wintershall	K13-AP	Callantsoog	36	1975	120.5	g
Gaz de France	L10-D	L10-AP	10.75 * 2.375	1977	1.1	g + m
Gaz de France	L10-E	L10-AP	10.75 * 2.375	1977	4.0	g + m
NAM	K8-FA-1	K14-FA-1P	24	1977	30.9	g
NAM	K14-FA-1P	WGT-pipe (s)	24	1977	0.1	g + co
TotalFinaElf	L7-B	L7-P	12.75, 4.5, 3.5	1977	7.9	g + w + g
TotalFinaElf	L7-P	L10-AR	16	1977	15.8	g
Wintershall	K13-B	K13-AP	10 * 2	1977	9.2	def.verl.
NAM	K11-FA-1	K8-FA-1	6.625	1978	6.0	def.verl.
NAM	K8-FA-1	K8-FA-2	3	1978	4.0	c
NAM	K8-FA-2	K8-FA-1	10.75	1978	3.8	g + co
NAM	K15-FA-1	WGT-pipe (s)	24	1978	0.1	co
Wintershall	K13-D	K13-C	10 * 2	1978	3.5	def.verl.
Wintershall	K13-C (Bypass)	K13-AP	20	1978	10.2	g
Gaz de France	L10-F	L10-AP	10.75 * 2.375	1980	4.3	g + m
TotalFinaElf	L4-A	L7-P	12.75, 3.5	1981	22.8	g + gl
NAM	K7-FA-1P	K8-FA-1	18	1982	9.4	g + co
Unocal	Q1-Helder-AW	Q1-Helm-AP	20	1982	6.2	o
Unocal	Q1-Helm-AP	Ijmuiden	20	1982	56.7	o
Wintershall	K10-C (Bypass)	K10-B	10 * 2	1982	5.2	g + m
Wintershall	K10-B	K13-C (Bypass)	20	1982	7.4	g
Gaz de France	K12-A	L10-AP	14 * 2.375	1983	29.2	g + m
NAM	K15-FB-1	Callantsoog	24	1983	74.3	g + co
Unocal	Q1-Hoorn-AP	Q1-Helder-AW	10.75	1983	3.5	o
Wintershall	P6-A	L10-AR	20	1983	78.7	g
Gaz de France	L10-G	L10-B / L10-A (s)	10.75 * 2.375	1984	4.7	g + m
Gaz de France	L10-K	L10-B / L10-A (s)	10.75 * 2.375	1984	5.8	def.verl.
Gaz de France	L10-B	L10-AD	14	1984	6.8	g
Gaz de France	L10-EE	L10-B / L10-A (s)	10	1984	0.2	g
Gaz de France	K12-C	K12-A / L10-A (s)	10 * 2	1984	0.4	g + m
Wintershall	K18-Kotter-P	Q1-Helder-A	12	1984	20.2	o
BP	P15-C	Hoek v. Holland	10	1985	42.6	o
BP	P15-B	P15-C	10	1985	3.4	def.verl.
BP	P15-B	P15-C	6	1985	3.4	def.verl.
BP	P15-C	P15-B	6	1985	3.4	def.verl.
BP	P15-B	P15-C	4	1985	3.4	def.verl.
Gaz de France	K12-D	K12-C	10.75 * 2.375	1985	4.3	g + m
NAM	AWG-1R	NGT-pipe (s)	20	1985	7.1	g + co +ci

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
NAM	AME-1	AWG-1R	20	1985	4.2	g + co
TotalFinaElf	L4-B	L7-A	10.75, 3.5	1985	10.1	g + gl
TotalFinaElf	L7-A	L7-P	10.75, 3.5	1985	10.4	g + gl
Wintershall	L16-Logger-P	K18-Kotter-P	8	1985	18.9	o
Wintershall	K18-Kotter-P	L16-Logger-P	6	1985	18.9	w
Wintershall	P6-B	P6-A	12 * 3	1985	3.9	g + gl
Wintershall	P6-C (toek.plf)	P6-B	12 * 3	1985	2.9	g + gl
Gaz de France	K12-A/ L10-A (s)	K12-E	2.375	1986	3.9	def.verl.
Gaz de France	K12-E	K12-C	10.75	1986	6.3	def.verl.
NAM	L13-FC-1P	K15-FA-1	18	1986	15.4	g + co
NAM	K8-FA-3	K7-FA-1P	12.75	1986	8.9	g
NGT	L11-B	NGT-pipe (s)	14	1986	6.8	g
Unocal	Q1-Helder-B	Q1-Helder-AW	8.625	1986	1.8	def.verl.
Wintershall	Q8-A	Wijk aan Zee	10	1986	13.7	g
NAM	K15-FA-1	K14-FA-1C	18	1987	24.2	g + co
NGT	K12-BP	L10-AR	18	1987	21.4	g
NGT	K9c-A	L10-AR	16	1987	36.6	g
NGT	K9c-A/L10-AR(s)	K9ab-A	16	1987	0.1	g
TotalFinaElf	Zuidwal	Harlingen TC	20 , 3 , 3	1987	20.3	g + gl + c
Gaz de France	K12-A	K12-CC	10.75	1988	8.3	g
Gaz de France	L10-L	L10-AP	10.75 * 2.375	1988	2.2	g + m
Gaz de France	L10-S1	L10-AP	6.625 * 2.375	1988	11.5	def.verl.
Gaz de France	K12-E	L10-S1	90 mm	1988	4.6	def.verl.
NGT	L8-G	L11b-A	14	1988	14.4	g
TotalFinaElf	L7-P	L7-N	10.75 * 3.5	1988	4.2	g + gl
Wintershall	L8-H	L8-A / L8-G(s)	8	1988	0.2	g
Wintershall	K13-C (Bypass)	K10-B / K13-A (s)	20	1988	2.5	g
Wintershall	L8-A	L8-G	8	1988	10.0	g
NAM	L13-FD-1	L13-FC-1P	10	1989	3.7	g + co
NAM	L13-FC-1P	L13-FD-1	3.6	1989	3.6	c
NAM	K8-FA-2	K8-FA-1	10.75	1989	4.0	g + co +ci
TotalFinaElf	L7-H	L7-N	10.75 * 3.5	1989	10.4	g + gl
Unocal	Q1-Haven-A	Q1-Helder-AW	8.625	1989	5.8	def.verl.
Gaz de France	L14-S1	L11a-A	6.625 * 2.375	1990	6.0	def.verl.
Gaz de France	K12-B	K12-S1	3.5	1990	4.9	c
NAM	K15-FC-1	K15-FB-1	10.75	1990	7.9	g + co
NAM	K15-FB-1	K15-FC-1	4.03	1990	7.9	c
NAM	K15-FG-1	K15-FA-1	14.3	1990	7.0	g + co
NAM	K15-FA-1	K15-FG-1	4.03	1990	7.0	c
NAM	L13-FE-1	L13-FC-1P	12.98	1990	4.3	g + co
NAM	L13-FC-1P	L13-FE-1	3.76	1990	4.3	c
NGT	L11-A	NGT-pipe (s)	10.75	1990	11.8	def.verl.
Wintershall	P12-C	P12-SW	8 * 3	1990	6.9	def.verl.
Wintershall	P12-SW	P6-A	12 * 3	1990	42.0	g + gl

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Gaz de France	K12-S1	K12-BP	6.625 * 2.375	1991	4.9	def.verl.
NAM	AME-2	AWG-1R	13.6	1991	5.2	g + co
NAM	AWG-1R	AME-2	4.02	1991	5.2	c
NAM	F3-FB-1P	L2-FA-1	24	1991	108.1	g + co
NAM	L2-FA-1	Callantssoog	36	1991	144.2	g + co
NAM	L5-FA-1	NOGAT-pipe (s)	16	1991	0.4	g + co
NAM	L15-FA-1	NOGAT-pipe (s)	16	1991	0.4	g + co
NAM	F15-A	NOGAT-pipe (s)	16	1991	0.3	g + co
NGT	K6-C	K9c-A	16	1991	5.2	g
TotalFinaElf	K6-D	K6-C	10.75 * 3.5	1991	3.8	g + gl
TotalFinaElf	K6-DN	K6-C	12.75 * 3.5	1992	5.4	g + gl
Wintershall	J6-A	K13-AW	24	1992	85.8	g
BP	P15-D	Maasvlakte	26	1993	40.1	g
BP	P15-E	P15-D	10 * 2	1993	13.9	g + m
BP	P15-F	P15-D	12 * 3	1993	9.1	g + m
BP	P15-G	P15-D	12 * 3	1993	9.1	g + m
BP	P15-10S	P15-D	4 * 2	1993	3.9	g + m
BP	P15-D	P15-10S	90 mm	1993	3.9	c
BP	P15-12S	P15-D	4 * 2	1993	6.1	g + m
BP	P15-D	P15-12S	90 mm	1993	6.1	c
BP	P15-14S	P15-G	4 * 2	1993	3.7	g + m
BP	P15-D	P15-14S	90 mm	1993	8.0	c
BP	P18-A	P15-D	16 * 3	1993	20.8	g + m
NAM	F3-FB-1P	F3-OLT	16	1993	2.0	o
NAM	F3-FB-1P	F3-OLT	3.21	1993	2.0	c
TotalFinaElf	K6-N	K6-C	12.75 * 3.5	1993	8.5	g + gl
Unocal	P9-Horizon-A	Q1-Helder-AW	10.75	1993	4.8	o + w
Wintershall	K10-V	K10-C (Bypass)	10 * 2	1993	10.3	g + m
Wintershall	P14-A	P15-D	10 * 2	1993	12.6	g + m
Lasmo	ST-I	J6-A	12 * 2	1994	5.5	g + m
TotalFinaElf	K5-D	K5-A	12.75 * 3.6	1994	10.6	g + gl
Wintershall	Q8-B	Q8-A	8 * 2	1994	8.3	g + m
Wintershall	K5-A	J6-A / K13-AW (s)	18	1994	0.3	g
Wintershall	L8-P	L8-G	8 * 2	1994	7.5	g + m
Gaz de France	K11-B	K12-C	14 * 2.375	1995	16.1	def.verl.
NAM	L13-FH-1	K15-FA-1	6.625	1995	9.4	g+co+m+ci
NAM	K15-FA-1	L13-FH-1	2.98	1995	9.4	c
TotalFinaElf	K5-B	K5-A	346 mm	1995	6.4	g
TotalFinaElf	K5-A	K5-B	3.5	1995	6.4	m + c
Unocal	Q1-Halfweg	Q1-Hoorn-AP	12.75 * 2.375	1995	12.4	g + co + m
Unocal	Q1-Hoorn-AP	Q1-Halfweg	70.9 mm	1995	12.4	c
Unocal	Q1-Hoorn-AP	WGT-pipe (s)	12.75	1995	17.2	g + co
Unocal	Q1-Haven-A	Q1-Helder-AW	8.625	1995	5.8	o + w
Wintershall	P2-NE	P6-A	10	1996	38.2	def.verl.

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
Wintershall	P6-S	P6-B	203 mm	1996	6.5	g
Gaz de France	L10-S2	L10-AP	6.625 * 2.375	1997	6.3	g + m
Gaz de France	L10-AP	L10-S2	84 mm	1997	7.0	c
Gaz de France	L10-S3	L10-AP	6.625 * 2.375	1997	1.9	g + gl
Gaz de France	K12-E	L10-S3	3.5	1997	4.5	c
Gaz de France	L10-S4	L10-AP	6.625 * 2.375	1997	8.3	g + m
Gaz de France	L10-AP	L10-S4	84 mm	1997	8.4	c
NAM	K14-FA-1P	K15-FB-1	16	1997	16.6	g
NAM	K14-FB-1	K14-FA-1P	10.75	1997	9.2	g + co
NAM	K14-FA-1P	K14-FB-1	3.65	1997	9.2	c
NAM	L9-FF-1P	NOGAT-pipe (s)	24	1997	19.3	g + co
TotalFinaElf	K4a-D	J6-A	183 mm	1997	7.3	g
TotalFinaElf	J6-A	K4a-D	2.5	1997	7.4	m + c
TotalFinaElf	K5-EN/C	K5-D	303 mm	1997	2.7	def.verl.
TotalFinaElf	K5-D	K5-EN/C	2.5	1997	2.7	gl
TotalFinaElf	K5-B	K5-EN/C	70 mm	1997	6.2	c
NAM	K7-FD-1	K8-FA-1	12	1998	9.4	g + co
NAM	K7-FD-1	K8-FA-1	3.4	1998	9.4	c
NAM	K8-FA-1	K14-FA-1C	24	1998	30.9	g
NAM	Q16-FA-1	P18-A	8.625	1998	10.3	g + co
NAM	P18-A	Q16-FA-1	2.375	1998	10.3	m
NAM	Q16-FA-1	P18-A	3.4	1998	10.3	c
TotalFinaElf	K4-A	K5-A	12 * 3	1998	6.9	g + gl
TotalFinaElf	K6-GT	L4-B	10 * 3	1998	10.7	g + gl
TotalFinaElf	K4-A	K5-A	2.5	1998	6.7	c
Gaz de France	K9ab-B	D15-FA-1 / L10-A (s)	10	1999	0.1	g
NGT	D15-FA-1	L10-AC	36	1999	140.7	g
TotalFinaElf	L4-PN	L4-A	10	1999	11.4	g
TotalFinaElf	L4-A	L4-PN	4	1999	11.4	gl
Gaz de France	L10-M	L10-AP	10.75 * 2.375	2000	11.9	g + m
Petro-Canada	F2-A-Hanze	TMLS	16	2000	1.5	o
TotalFinaElf	K4-BE	K4-A	9.5	2000	8.0	def.verl.
TotalFinaElf	K4-A	K4-BE	2.5	2000	8.0	gl
Wintershall	Q4-A	P6-A	14	2000	35.2	g + co
Wintershall	Duitsland (A6)	F3-FB-1P	20 , 4	2000	119.0	g + co
Wintershall	L8-A-West	L8-P4	6	2000	10.2	g + co
Wintershall	L8-P4	L8-A-West	82 mm	2000	10.2	c
Wintershall	L8-P	L8-P4	12	2000	2.8	g
Wintershall	L8-P4	NGT-pipe (s)	16	2000	28.0	g + co
Gaz de France	K12-G	L10-AP	14 , 2	2001	15.6	g + m
NGT	G17d-A	NGT-pipe (s)	18	2001	64.5	g
Petro-Canada	F2-A-Hanze	A6 / B4 (s)	4	2001	0.1	g
Petro-Canada	F2-A-Hanze	A6 / B4 (s)	62.1 mm	2001	0.1	c
Petro-Canada	F2-A-Hanze	TMLS	62.1 mm	2001	1.5	c

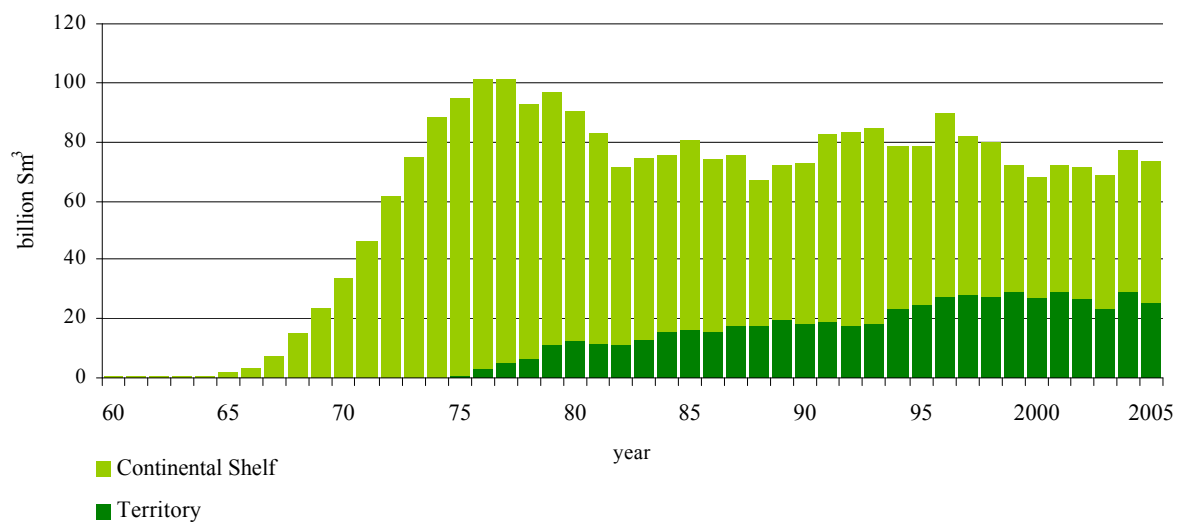
Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
TotalFinaElf	K5-EN/C	K5-D	10.75	2001	2.8	g
TotalFinaElf	K1-A	J6-A	14.75 * 3.5	2001	9.2	g + m
Wintershall	P6-D	P6-B	12	2001	6.8	g
Gaz de France	K12-S2	K12-C	6.625	2002	6.9	g
Gaz de France	K12-S2	K12-C	95.5 mm	2002	6.9	c
Wintershall	Q4-B	Q4-A	10.75	2002	7.3	g
Wintershall	Q4-C	Q1-Hoorn	16 * 2	2002	14.3	g + gl
Gaz de France	K12-S3	K12-BP	6	2003	3.4	g
Gaz de France	K12-BP	K12-S3	95.5 mm	2003	3.4	c
Maersk	Denemarken (Tyra WE)	F3-FB-1P	26	2003	38.0	g
Maersk	F3-FB-1P	subsea valve station	4	2003	0.3	c
NAM	K7-FB-1	K7-FD-1	12	2003	17.0	g
NAM	K8-FA-1	K7-FB-1	4	2003	26.0	c
NAM	K15-FK-1	K15-FB-1	10	2003	8.0	g
NAM	K15-FK-1	K15-FB-1	4	2003	8.0	c
Wintershall	L5-B	L8-P4	10 , 4	2003	6.4	g + c
Total	K4-BE	K4-A	10	2004	8.0	g
Wintershall	D12-A	D15-FA-1 (Nam)	10	2004	4.9	g
Wintershall	D12-A	D15-FA-1 (Nam)	10	2004	4.9	c
Wintershall	Q5-A1	Q8-B	8	2004	13.5	g
Wintershall	Q5-A1	Q8-B	4	2004	13.5	c
Wintershall	F16-A	NGT	24	2005	32	g
Gaz de France	G14-A	G17d-AP	12 + 2	2005	19.8	g + m
Gaz de France	G17a-S1	G17d-AP	6 + 92.5 mm	2005	5.67	g + c
Gaz de France	K2b-A	D15-FA-1/L10-A (sidetap NGT)	12	2005	2.8	
NAM	K17-FA-1	K14-FB-1	16 * 2	2005	14.4	g + m
Total	L4-G	L4-A	6 + 4	2005	9.6	g + c
ATP	L6d-2	G17d-AP	6 + 73 mm	2005	40	g + c
Petro-Canada	P11-B-Ruyter	P11-B-TMLS	16	2005	1.5	o
Petro-Canada	P11-B-Ruyter	P12-SW	8	2005	29	g

* = multiple pipeline
+ = laid separately
c = control cable
o = oil
g = gas
co = condensate

gl = glycol
m = methanol
ci = corrosion inhibitor
l = instrument air
(s) = side-tap
def.verl. = abandoned

GAS PRODUCTION in million Sm³

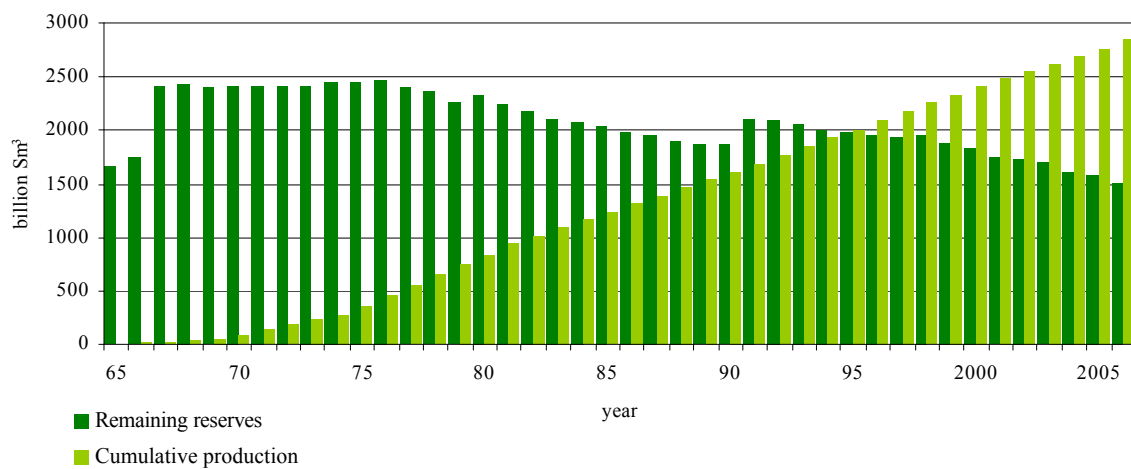
Year	Territory	Continental Shelf	Total
1960	384.0	0	384.0
61	476.0	0	476.0
62	538.0	0	538.0
63	603.0	0	603.0
64	876.0	0	876.0
1965	1 818.0	0	1 818.0
66	3 564.0	0	3 564.0
67	7 423.0	0	7 423.0
68	14 889.0	0	14 889.0
69	23 097.0	0	23 097.0
1970	33 417.8	7.9	33 425.7
71	46 248.3	2.4	46 250.7
72	61 661.1	1.4	61 662.5
73	74 765.9	7.8	74 773.7
74	88 358.7	14.6	88 373.3
1975	93 924.0	963.3	94 887.3
76	98 307.4	3 092.7	101 400.1
77	95 603.2	5 479.6	101 082.8
78	86 475.0	6 298.5	92 773.5
79	85 861.9	10 925.5	96 787.4
1980	78 208.9	12 102.0	90 310.9
81	70 928.3	11 798.3	82 726.6
82	60 004.3	11 073.3	71 077.6
83	61 533.0	13 172.2	74 705.2
84	59 351.6	15 787.3	75 138.9
1985	64 573.4	16 070.9	80 644.3
86	58 479.5	15 549.0	74 028.5
87	58 088.8	17 271.4	75 360.2
88	49 092.4	17 591.2	66 683.6
89	52 569.6	19 300.0	71 869.6
1990	54 585.4	17 856.0	72 441.4
91	63 724.1	18 686.3	82 410.4
92	65 701.6	17 279.0	82 980.6
93	66 154.0	17 851.4	84 005.4
94	54 863.3	23 536.9	78 400.2
1995	53 643.0	24 706.9	78 349.9
96	62 295.2	27 350.6	89 645.8
97	54 261.2	27 581.1	81 842.3
98	52 764.2	27 141.2	79 905.4
99	42 823.3	29 206.9	72 030.2
2000	40 320.2	27 473.9	67 794.1
01	43 220.8	29 043.1	72 263.9
02	44 472.4	26 770.1	71 242.5
03	45 257.1	23 508.0	68 765.1
04	48 422.3	29 121.7	77 544.0
2005	48 019.2	25 097.2	73 116.4
Total	2 271 648.0	568 705.4	2 840 368.0

Gas production 1960-2005

GAS RESERVES AND GROSS CUMULATIVE PRODUCTION in billion Sm³

Year as at 1 January	Territory expected reserves	cumulative production	Continental Shelf		Total	
			expected reserves	as at 1 January	expected reserves	cumulative production
74	2 243	271.2	211	0.0	2 454	271.2
1975	-	359.6	-	0.0	-	359.6
76	2 137	453.5	340	1.0	2 477	454.5
77	2 030	551.8	367	4.1	2 397	555.9
78	1 996	646.9	363	9.6	2 359	656.5
79	1 928	732.9	343	15.9	2 271	748.8
1980	2 023	818.3	304	26.8	2 327	845.1
81	1 953	896.5	298	38.9	2 251	935.4
82	1 899	967.4	275	50.7	2 174	1 018.1
83	1 845	1 027.4	272	61.8	2 117	1 089.2
84	1 809	1 088.9	271	74.9	2 080	1 163.8
1985	1 754	1 148.3	281	90.7	2 035	1 239.0
86	1 704	1 121.9	290	106.8	1 994	1 319.7
87	1 655	1 271.3	300	122.3	1 955	1 393.6
88	1 607	1 330.8	303	139.6	1 910	1 470.4
89	1 557	1 380.0	320	157.2	1 877	1 537.2
1990	1 524	1 432.6	341	176.5	1 865	1 609.1
91	1 780	1 487.1	333	194.4	2 113	1 681.5
92	1 739	1 550.9	347	213.0	2 086	1 763.9
93	1 705	1 616.6	356	230.3	2 061	1 846.9
94	1 658	1 682.7	352	248.2	2 010	1 930.9
1995	1 663	1 737.6	334	271.7	1 997	2 009.3
96	1 631	1 791.2	321	296.4	1 952	2 087.7
97	1 587	1 853.5	343	323.8	1 930	2 177.3
98	1 574	1 907.7	373	351.4	1 947	2 259.1
99	1 533	1 960.6	360	378.5	1 893	2 339.0
2000	1 499	2 001.3	337	407.7	1 836	2 409.0
01	1 447	2 043.7	330	435.1	1 777	2 478.8
02	1 406	2 086.9	333	464.2	1 738	2 551.0
03	1 362	2 131.4	327	491.0	1 689	2 622.3
04	1 357	2 176.7	258	514.1	1 615	2 690.7
2005	1 305	2 223.6	267	543.6	1 572	2 767.3
06	1 285	2 271.6	225	568.7	1 510	2 840.3

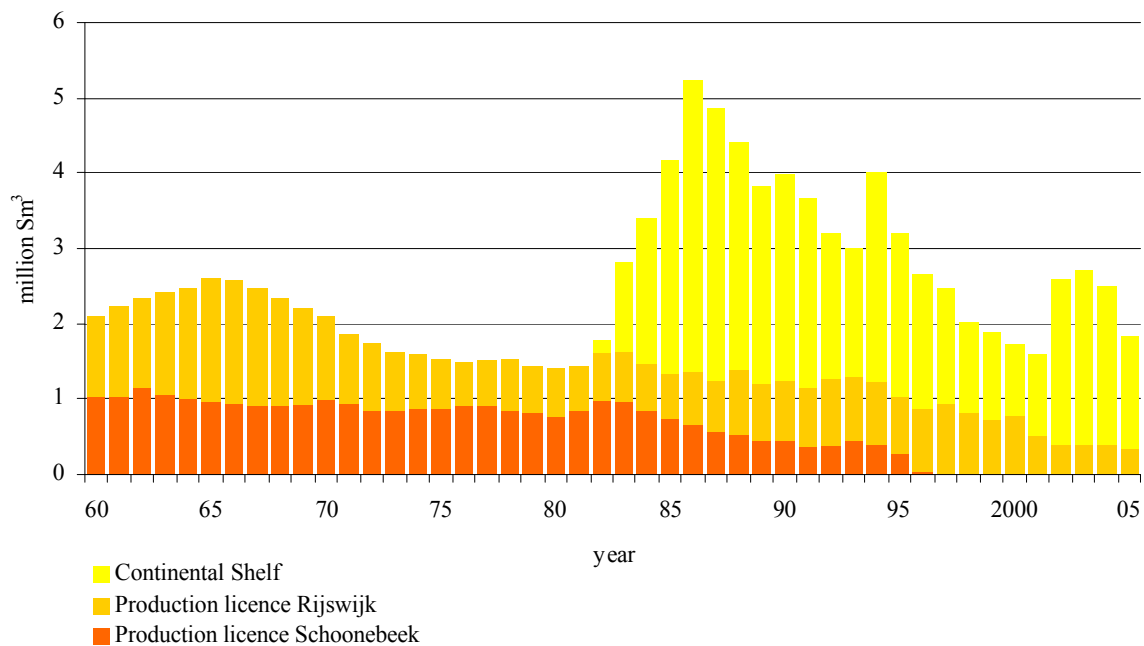
Gas reserves and cumulative production (1 January), 1965 - 2006



OIL PRODUCTION in 1 000 Sm³

Year	Production licence Schoonebeek	Production licence Rijswijk	Continental Shelf	Total
Up to 1969	21 662.8	15 587.2	--	37 250.0
1970	976.0	1 112.2	--	2 088.2
71	940.7	926.8	--	1 867.5
72	856.3	883.1	--	1 739.4
73	838.2	787.4	--	1 625.6
74	878.0	715.5	--	1 593.5
1975	877.0	671.5	--	1 548.5
76	891.9	605.2	--	1 497.1
77	890.8	617.8	--	1 508.6
78	862.3	667.8	--	1 530.1
79	820.4	615.6	--	1 436.0
1980	778.9	617.7	--	1 396.6
81	839.2	596.5	--	1 435.7
82	987.9	625.3	159.7	1 772.9
83	960.0	655.6	1 209.1	2 824.7
84	846.9	615.6	1 921.7	3 384.2
1985	734.5	602.8	2 825.4	4 162.7
86	658.9	688.8	3 889.7	5 237.4
87	556.4	692.5	3 607.8	4 856.7
88	536.0	844.9	3 032.9	4 413.8
89	464.3	731.6	2 634.5	3 830.4
1990	463.0	784.9	2 744.5	3 992.4
91	366.0	777.3	2 527.9	3 671.2
92	379.3	907.3	1 920.7	3 207.3
93	454.0	849.0	1 709.8	3 012.8
94	406.4	811.4	2 804.8	4 022.6
1995	268.3	760.9	2 182.1	3 209.3
96	23.2	856.5	1 767.2	2 647.0
97	-	917.6	1 556.8	2 474.4
98	-	810.4	1 218.9	2 029.3
99	-	714.6	1 173.2	1 887.8
2000	-	776.1	936.4	1 712.5
01	-	542.2	1 085.4	1 627.6
02	-	439.0	2 236.4	2 675.4
03	-	416.2	2 324.6	2 740.0
04	-	381.3	2 081.7	2 463.0
2005	-	335.4	1 489.7	1 825.1
Total	40 217.6	40 941.5	49 040.9	130 197.3

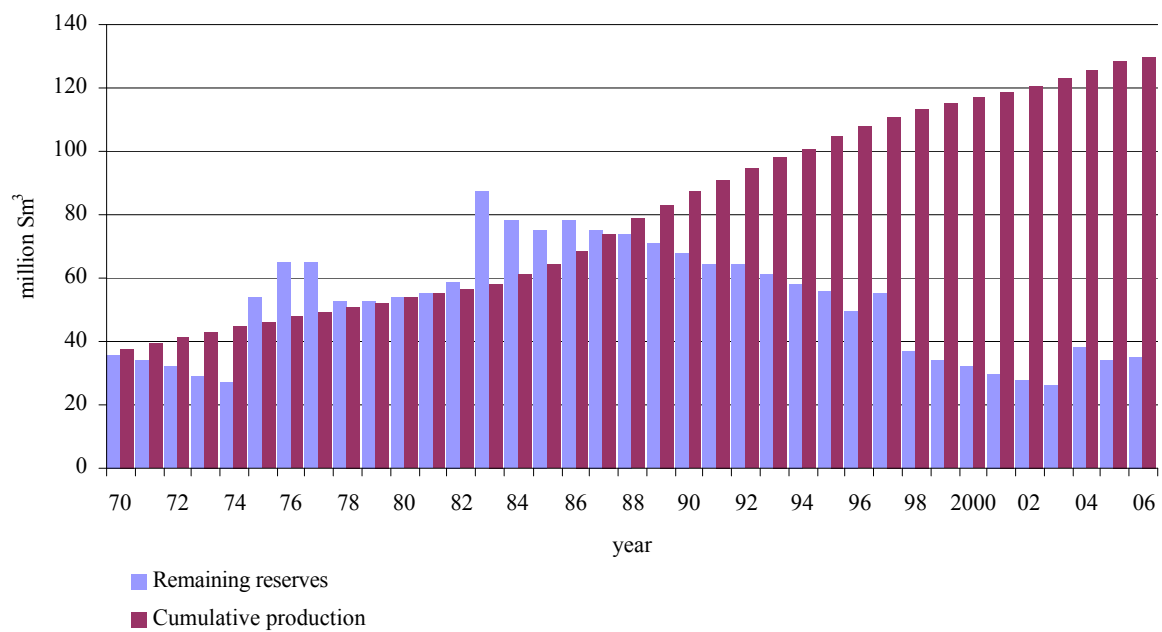
Oil production 1960 – 2005



OIL RESERVES AND CUMULATIVE PRODUCTION in million Sm³

Year	Territory		Continental Shelf		Total		
	as at 1 January	expected reserves	cumulative production	expected reserves	as at 1 January	expected reserves	cumulative production
1970		36	37.3	-	-	36	37.3
71		34	39.3	-	-	34	39.3
72		32	41.2	-	-	32	41.2
73		29	42.9	-	-	29	42.9
74		27	44.6	-	-	27	44.6
1975		40	46.2	14	-	54	46.2
76		51	47.7	14	-	65	47.7
77		49	49.2	16	-	65	49.2
78		46	50.7	7	-	53	50.7
79		44	52.2	9	-	53	52.2
1980		43	53.7	11	-	54	53.7
81		41	55.1	14	-	55	55.1
82		39	56.5	20	-	59	56.5
83		38	58.1	49	0.2	87	58.3
84		37	59.7	41	1.4	78	61.1
1985		41	61.2	34	3.3	75	64.5
86		42	62.5	36	6.1	78	68.6
87		40	63.9	35	10.0	75	73.9
88		41	65.1	33	13.6	74	78.7
89		39	66.5	32	16.6	71	83.1
1990		41	67.7	27	19.3	68	87.0
91		40	69.0	24	22.0	64	91.0
92		38	70.1	26	24.6	64	94.7
93		37	71.4	24	26.5	61	97.9
94		35	72.7	23	28.2	58	100.9
1995		34	73.9	22	31.0	56	104.9
96		33	75.0	17	33.2	50	108.1
97		33	75.8	22	34.9	55	110.8
98		12	76.7	25	36.5	37	113.2
99		8	77.5	26	37.7	34	115.2
2000		7	78.2	25	38.9	32	117.1
01		6	79.0	24	39.8	30	118.8
02		5	79.5	23	40.9	28	120.4
03		5	79.9	23	43.1	28	123.0
04		21	80.3	17	45.4	38	125.7
2005		19	80.7	15	47.1	34	128.2
06		23	81.1	13	49.0	35	130.2

Oil reserves and cumulative production in million Sm³ 1970 – 2006



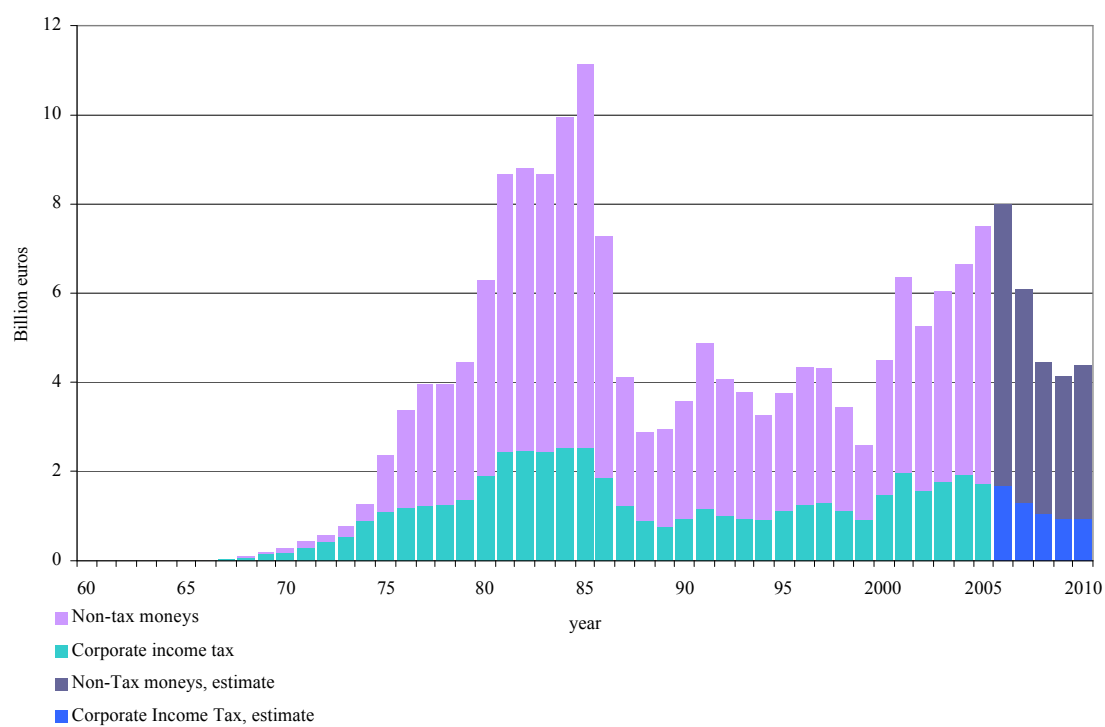
NATURAL GAS REVENUES 1960 – 2010

Year	Non-tax moneys* (10 ⁹ €)	Corporate income tax (10 ⁹ €)	Total (10 ⁹ €)
1960	0	0	0
61	0	0	0
62	0	0	0
63	0	0	0
64	0	0	0
1965	0	0	0
66	0	0.01	0.01
67	0.01	0.04	0.05
68	0.02	0.07	0.09
69	0.05	0.14	0.19
1970	0.09	0.18	0.27
71	0.14	0.27	0.41
72	0.14	0.41	0.55
73	0.23	0.54	0.77
74	0.41	0.86	1.27
1975	1.27	1.09	2.36
76	2.18	1.18	3.36
77	2.72	1.23	3.95
78	2.68	1.27	3.95
79	3.09	1.36	4.45
1980	4.36	1.91	6.27
81	6.22	2.45	8.67
82	6.35	2.45	8.8
83	6.22	2.45	8.67
84	7.40	2.54	9.94
1985	8.58	2.54	11.12
86	5.45	1.86	7.31
87	2.86	1.23	4.09
88	2.00	0.86	2.86
89	2.18	0.78	2.96
1990	2.61	0.96	3.57
91	3.72	1.17	4.89
92	3.04	1.02	4.06
93	2.83	0.95	3.78
94	2.34	0.91	3.25
1995	2.64	1.13	3.77
96	3.10	1.26	4.36
97	3.01	1.30	4.31
98	2.33	1.12	3.45
99	1.69	0.92	2.61
2000	3.02	1.47	4.49
01	4.37	1.98	6.35
02	3.67	1.58	5.25

Year	Non-tax moneys* (10 ⁹ €)	Corporate income tax (10 ⁹ €)	Total (10 ⁹ €)
03	4.31	1.74	6.05
04	4.74	1.94	6.68
2005	5.78	1.73	7.51
06	6.30	1.70	8.00
07	4.80	1.30	6.10
08	3.40	1.05	4.45
09	3.20	0.95	4.15
10	3.45	0.95	4.40

* Non-tax moneys consist of: bonus, surface rentals, royalties, the State profit share, the special payments to the State on production from the Groningen field and the profit distributed by Energie Beheer Nederland B.V., the participant in the production on behalf of the State.

Natural gas revenues, 1960 – 2010



AUTHORITIES CONCERNED WITH MINING OPERATIONS

Ministry of Economic Affairs, Energy Market Directorate
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Aims at ...

- Reliable, efficient, cleaner production and conversion of energy in the Netherlands
- Optimal development of the natural resources available in the Netherlands
- Sustainable use of the deep subsurface

Trough ...

- Mutual co-ordination of energy-production and environmental and town-and-country-planning policies
- Ensuring a good business climate, in both national and international terms
- Ensuring a stable mining climate
- Production and optimal use of available natural resources
- Effective and efficient implementation of mining legislation
- Ensuring payments from production of minerals are received
- Research and development in the fields of nuclear energy and radioactive waste
- Balanced conditions for production and conversion of energy
- Stimulating the application of renewable energy sources, e.g. by supporting research, development and exhibitions
- Removal of administrative impediments to the application of renewable energy

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TNO Built Environment and Geosciences - *National Geological Survey*

The task of TNO is to advise the Minister on geological matters, in particular those relating to exploration for and production of natural resources. TNO also maintains, interprets and processes the data that become available during the exploration for and production of natural resources or otherwise.

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**State Supervision of Mines (Staatstoezicht op de Mijnen)
(a department of the Ministry of Economic Affairs)**

The State Supervision of Mines supervises reconnaissance surveys, exploration and production activities concerning natural resources and geothermal energy and underground storage. In addition, the State Supervision of Mines advises on mining operations and licences and is entrusted with enforcing part of the mining legislation

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DEFINITIONS OF SELECTED TERMS

Territory or Netherlands territory:

in this review, territory and Netherlands territory denotes: the Netherlands mainland and that part of the Netherlands territorial waters located on the landward side of the line referred to in article 1, sub c, of the Mining Act.

Continental Shelf:

in this review, Continental Shelf denotes: that part of the Continental Shelf over which the Kingdom of the Netherlands has sovereign rights and which is located on the seaward side of the line referred to in article 1, sub c, of the Mining Act.

Reconnaissance licence:

a licence to carry out a reconnaissance survey on the Continental Shelf; as from the 1 January 2003 a reconnaissance survey is only required for certain areas.

Exploration licence:

a licence to carry out exploration for the mineral resources specified in the licence.

Production licence:

a licence to produce the mineral resources specified in the licence, and also to carry out exploration for these mineral resources.

Seismic surveying:

this review differentiates between 2D and 3D seismic techniques. Two-dimensional seismic surveying has a long tradition in the oil industry. This seismic technique is based on vibrations that are generated along a line on the earth's surface. These vibrations penetrate the earth's crust and are reflected by the layers within the crust. Geophones or hydrophones record the reflections. Because the vibrations do not always propagate solely in the vertical plane underneath the recording line, the representations of geological structures in 2D seismic sections only approximate the real situation. This approximation is far better for a 3D seismic survey, in which a large number of recording lines are positioned close together in a relatively small surface area. Modern electronic data processing makes it possible to correct for deviations of the wave fronts that are not in the vertical plane underneath an individual recording line, and thus permits generating an accurate model of the geological structures at any desired location.

Wells:

- exploration well (or wildcat): a well to explore a prospective underground accumulation of oil and/or gas
- appraisal well: a well drilled in order to establish the volume and extent of a reservoir after an exploration well has found hydrocarbons;
- development well: a well drilled in order to produce the reservoir;

Gas field/oil field:

A natural, isolated accumulation of gas and/or oil in a subsurface reservoir consisting of a porous rock that is capped or enclosed by an impermeable rock. In this review, the terms reservoir, field and accumulation are used as synonyms.

Reserves (categories and definitions):

In the following definitions, natural gas and oil are referred to collectively as hydrocarbons.

1 Gas/Oil Initially in Place

The total volume of hydrocarbons in a reservoir that is initially (originally) present in a reservoir. This volume is calculated on the basis of the mean values of the parameters used in the calculations.

2 Expected Initial Reserves

The total volume of hydrocarbons in a reservoir that is estimated to be ultimately recoverable. This volume is calculated on the basis of the mean values of the parameters used in the calculations.

3 Proven Initial Reserves

The volume of hydrocarbons in a reservoir that is estimated to be ultimately recoverable, with an expectation-curve probability of 90%.

4 Remaining Expected Reserves

That part of the expected initial reserves remaining after subtraction of the cumulative production, i.e. the total volume of hydrocarbons produced from the reservoir concerned by the end of the year under review.

5 Remaining Proven Reserves

The volume - based on the 90% expectation-curve value - of hydrocarbons that can still be extracted from a reservoir. This volume is calculated by subtracting the cumulative production from the Proven Initial Reserves.

The term 'expected' in the definitions above should be interpreted in the statistical sense of the word. The stated figure represents the expected value. The following explanation may be useful. All data that are used for the purpose of calculating volumes have an intrinsic uncertainty. By processing these uncertainties statistically, an expectation curve can be determined for each accumulation. This is a cumulative probability distribution curve, i.e. a graph in which reserve values are plotted against the associated probabilities that these values will be achieved or exceeded. As production from a hydrocarbon reservoir progresses, several uncertainties decrease and the expected value will deviate less and less from the 50% value on the cumulative probability distribution curve. In practice, the stated reserves of a given field are the expected values. This is the most realistic estimate available of the volume of hydrocarbons actually present in a reservoir. The recoverability of hydrocarbons from an accumulation is determined by the geological and reservoir characteristics of that accumulation, the recovery techniques available at the reporting date, and the economic conditions prevailing at that time.

Probabilistic summation of the proven reserves:

In this method, the probability distributions of the reserves of the individual fields are combined. This way, the uncertainties inherent to all reserve estimates are accounted for. The result of applying the

probabilistic summation method is that the total figure obtained for the proven reserves according to the definition, now indeed represents the proven proportion of total Dutch reserves in a statistically more reliable manner. In other words, there is a 90% probability that reserves will actually exceed the value stated.

Units:

Standard m³: Natural gas and oil reserves are expressed in m³ at a pressure of 101.325 kPa (or 1.01325 bar) and 15°C. This m³ is defined as Standard m³ in Standard no. 5024-1976(E) of the International Organization for Standardization (ISO), and is normally abbreviated to Sm³.

Groningen gas equivalent: For the purpose of performing calculations with volumes of natural gas of varying qualities, these are converted to a Groningen gas equivalent. This is achieved by converting a volume of gas from an accumulation that produces a different quality of gas, to a (fictitious) volume of gas of the quality of the Groningen accumulation (35.17 Megajoules upper value per m³ of 0°C and 101.325 kPa, or 1.01325 bar).

One Nm³ gas that has a calorific value of 36.5 MJ equals 36.5/35.17 m³ Groningen gas equivalent (Geq)

The term Groningen gas equivalent is also commonly used by the N.V. Nederlandse Gasunie.

Figures stated in Groningen gas equivalent can be converted simply into equivalents for other fuels, such as Tons Oil Equivalent (TOE) and Coal Equivalent (CE).

Fuel name	Expressed in	Giga Joules	Giga calories	Oil equiv. tonnes	Oil equiv. barrels	Coal equivalent tonnes	Natural Gas equivalent 1,000 m³
Firewood (dry)	tonnes	13.51	3.23	0.32	2.36	0.46	0.43
Coal	tonnes	29.30	7.00	0.70	5.11	1.00	0.93
Lignite	tonnes	17.00	4.06	0.41	2.96	0.58	0.54
Cokes	tonnes	28.50	6.81	0.68	4.97	0.97	0.90
Cokes oven gas	1,000 m ³	17.60	4.20	0.42	3.07	0.60	0.56
Blast furnace gas	1,000 m ³	3.80	0.91	0.09	0.66	0.13	0.12
Crude oil	tonnes	42.70	10.20	1.02	7.45	1.46	1.35
Oil equivalent	tonnes	41.87	10.00	1.00	7.30	1.43	1.32
Refinery gas	1,000 m ³	46.10	11.01	1.10	8.04	1.57	1.46
LPG	1,000 m ³	45.20	10.79	1.08	7.88	1.54	1.43
Naphtha	tonnes	44.00	10.51	1.05	7.67	1.50	1.39
Jet fuel	tonnes	43.49	10.39	1.04	7.58	1.48	1.37
Gasoline	tonnes	44.00	10.51	1.05	7.67	1.50	1.39
Kerosene	tonnes	43.11	10.29	1.03	7.52	1.47	1.36
Light fuel oil	tonnes	42.70	10.20	1.02	7.45	1.46	1.35
Heavy fuel oil	tonnes	41.00	9.79	0.98	7.15	1.40	1.30
Petroleum cokes	tonnes	35.20	8.41	0.84	6.14	1.20	1.11
Natural gas	1,000 m ³	31.65	7.56	0.76	5.52	1.08	1.00
Electricity *	MWh	3.60	0.86	0.09	0.63	0.12	0.11

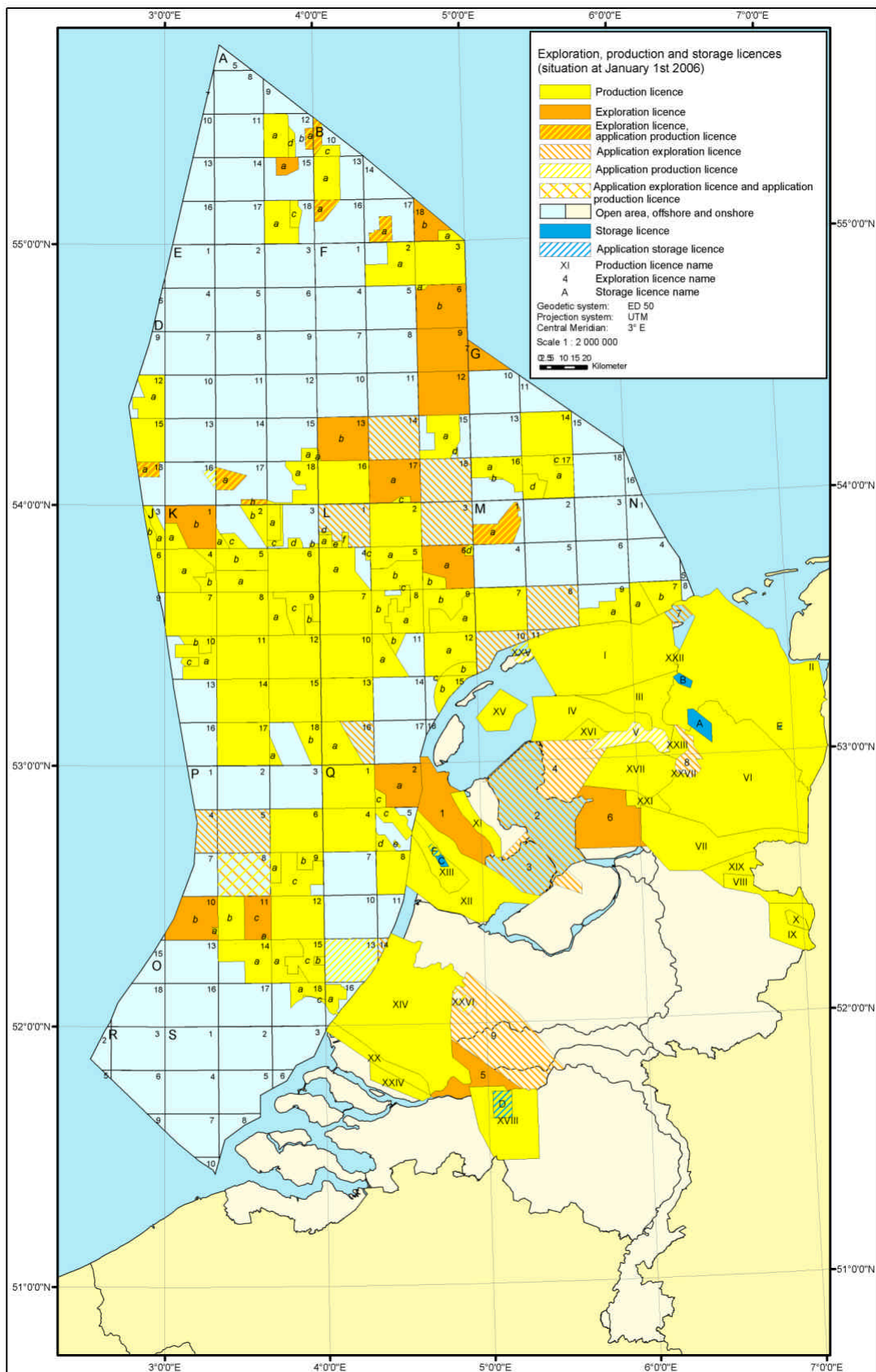
*In this energy conversion table, the energy value of an MWh electricity is to be understood as the energy content of a generated unit of electricity. In order to produce this unit of energy, more energy is necessary. The amount of energy required depends on the efficiency of the conversion.

APPENDICES

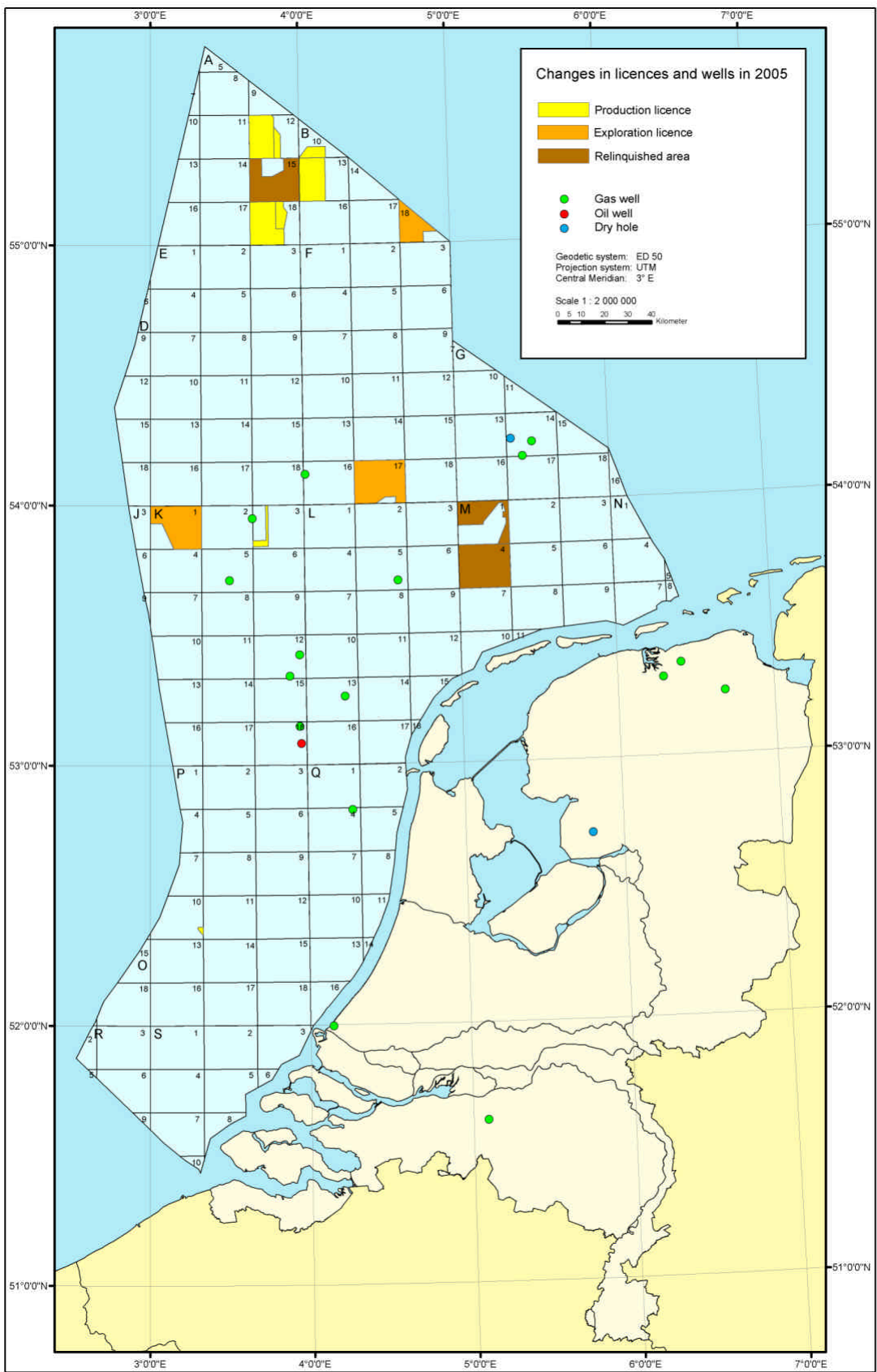
Exploration and production licences as at 1 January 2006

Names of the exploration, production and storage licences, Netherlands Territory, as indicated on opposite page.

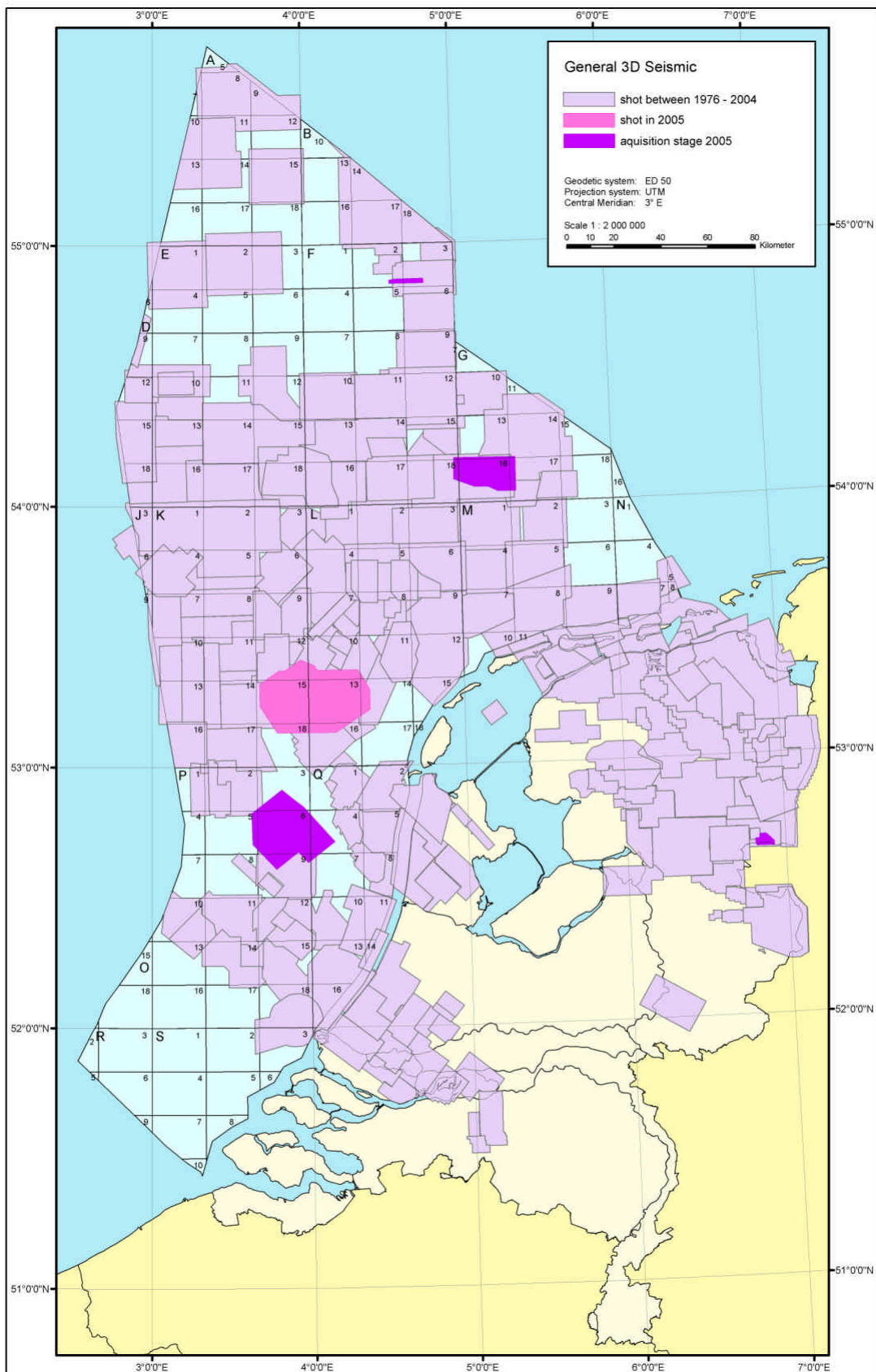
Exploration licence		Production licence	
1	Schagen	I	Noord-Friesland
2	IJsselmeer	II	Groningen
3	Markerwaard	III	Tietjerksteradeel
4	Zuid-Friesland II	IV	Leeuwarden
5	Andel II	VI	Drenthe
6	Lemmer-Marknesse	VII	Schoonebeek
		VIII	Tubbergen
		IX	Twenthe
		X	Rossum-de Lutte
		XI	Slootdorp
		XII	Middelie
		XIII	Bergen
		XIV	Rijswijk
		XV	Zuidwal
		XVI	Oosterend
		XVII	Gorredijk
		XVIII	Waalwijk
		XIX	Hardenberg
		XX	Botlek
		XXI	Steenwijk
		XXII	De Marne
		XXIII	Donkerbroek
		XXIV	Beijerland
Application for exploration licence		Application for production licence	
7	Schiermonnikoog-Noord	V	Akkrum
8	Oosterwolde Haulerwijk	XXV	Terschelling
9	Utrecht	XXVI	Papekop
		XXVII	Oosterwolde
Storage licence		Application for Storage licence	
A	Norg	D	Waalwijk
B	Grijpskerk	E	Zuidwending
C	Alkmaar	F	Bergermeer



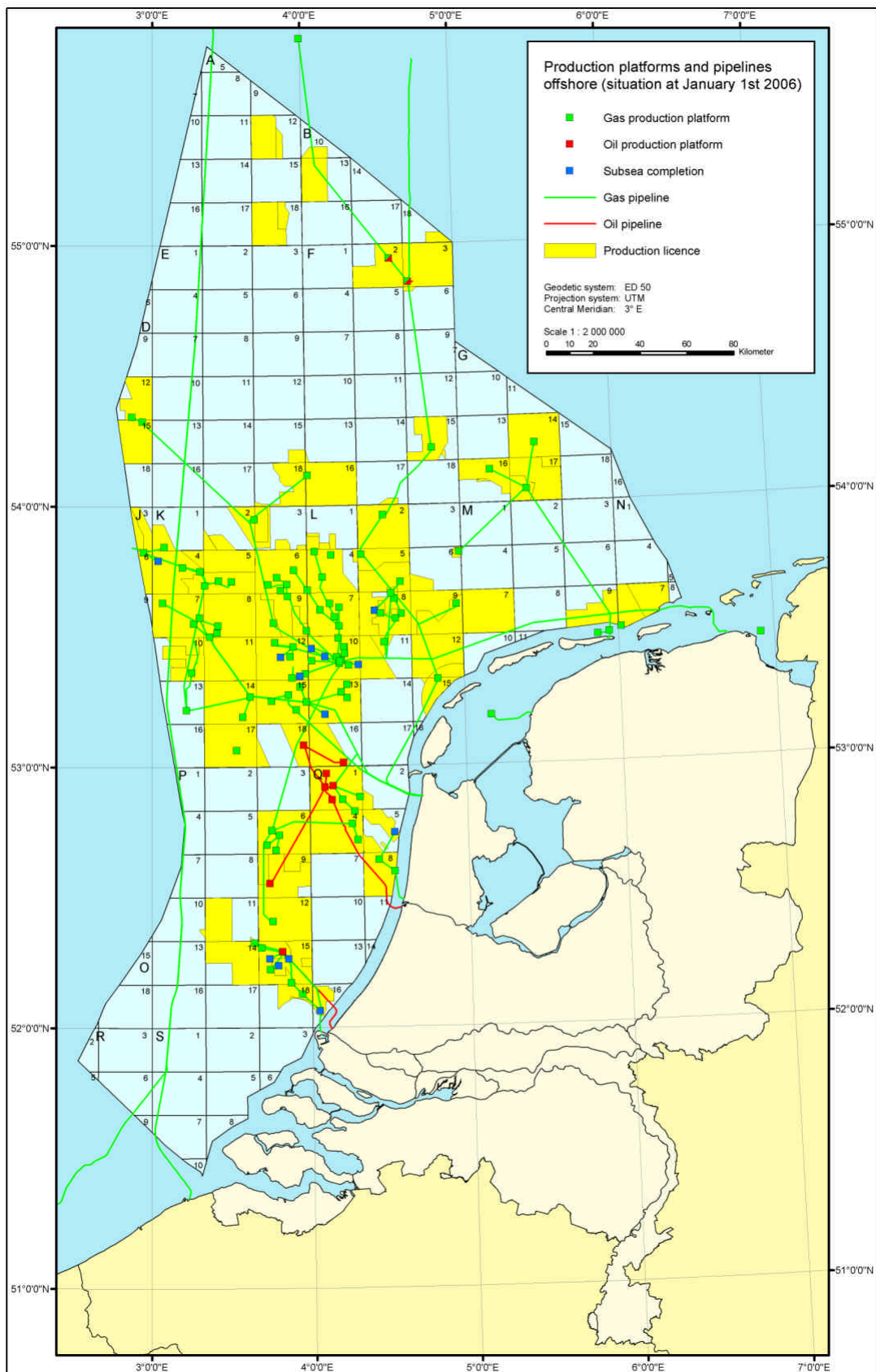
Changes in licences and wells during 2005



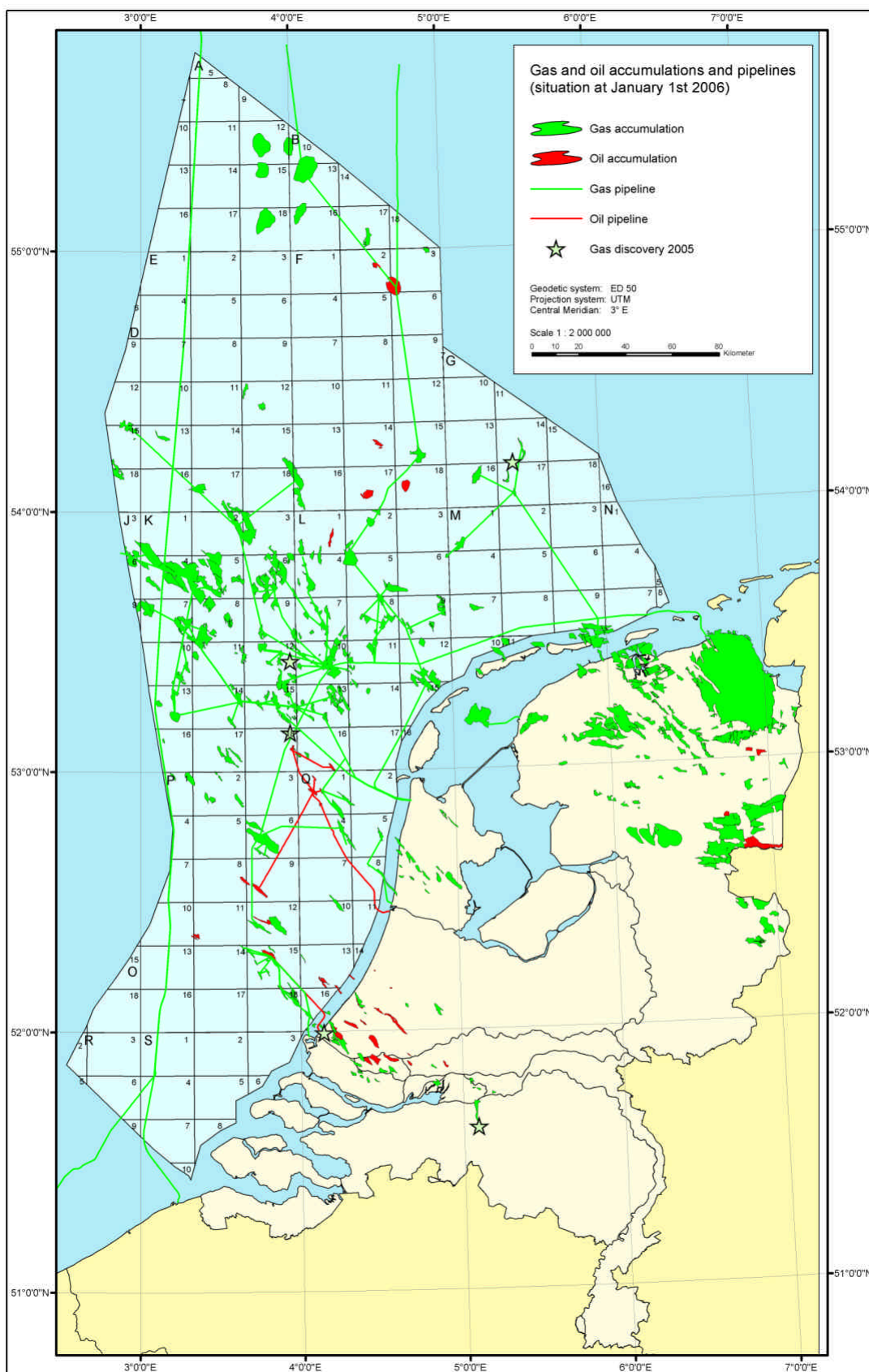
Summary of 3D seismic surveys



Production platforms and pipelines



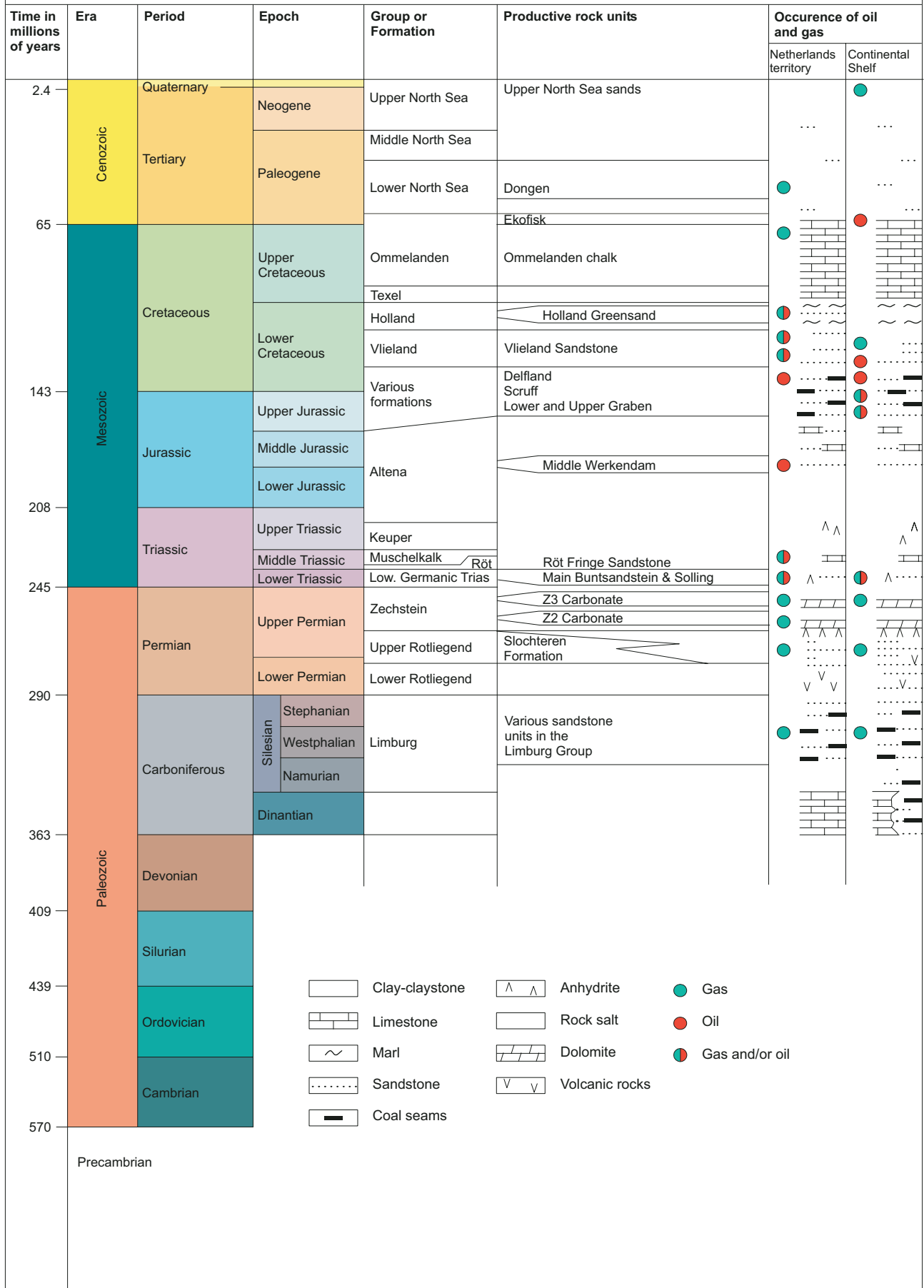
Gas and oil accumulations and pipelines as at 1 January 2006



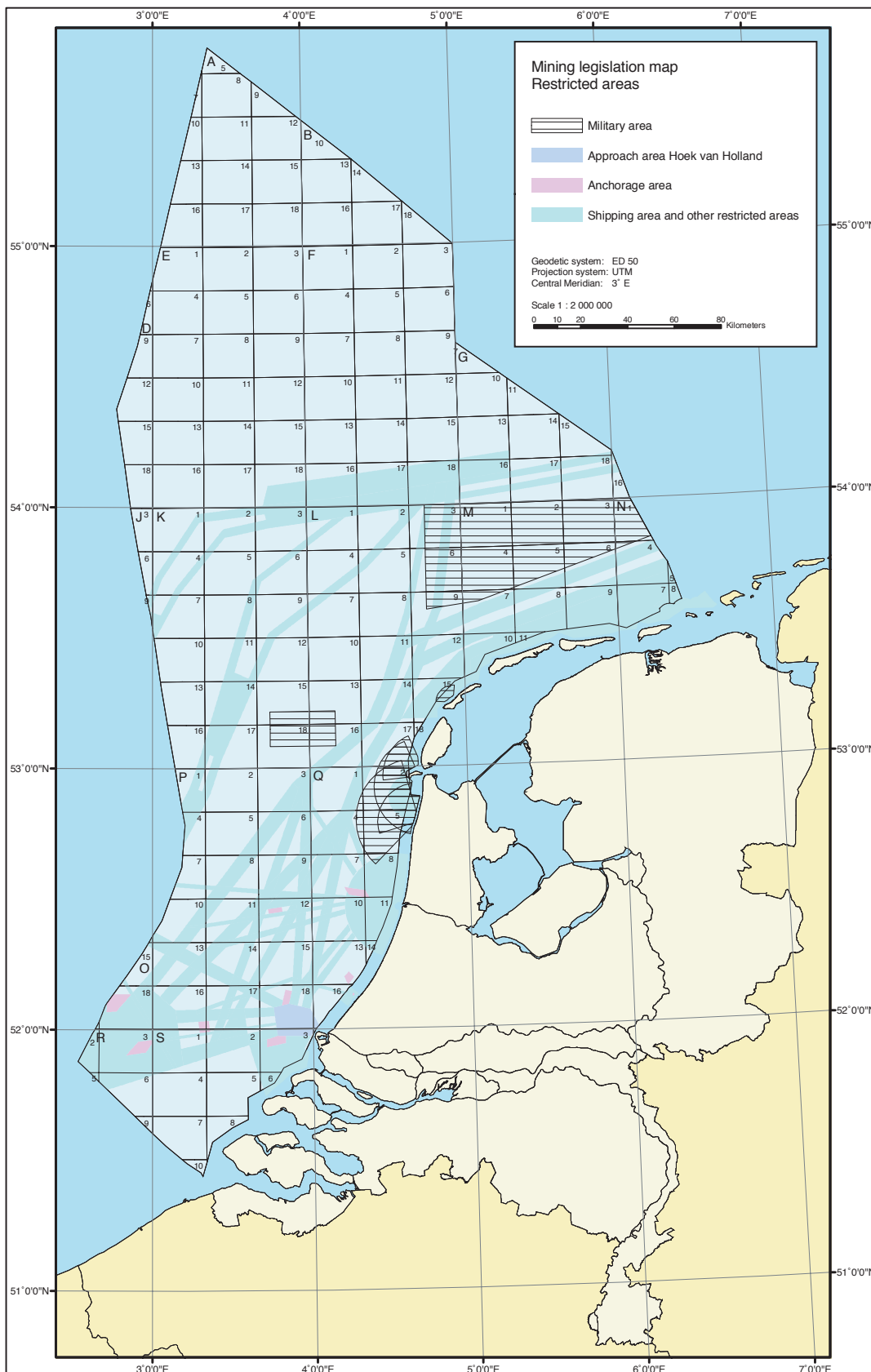
Geological time scale

Geological time scale

with composite stratigraphic column
of the Netherlands and the Continental Shelf



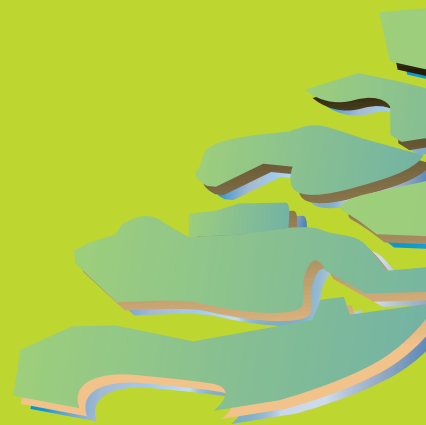
Mining Legislation Map





Ministry of Economic Affairs
Directorate General for Energy and Telecom

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