

Natural resources and geothermal energy in the Netherlands

Annual review 2009



Ministerie van Economische Zaken

NATURAL RESOURCES AND GEOTHERMAL ENERGY IN THE NETHERLANDS

Annual review 2009

A review of exploration and production activities and underground gas storage.

Preface

The annual review on 'Natural resources and geothermal energy in the Netherlands' reports on the activities and results of exploration and production of hydrocarbons, rock salt and geothermal energy in the Netherlands. Moreover the underground storage of substances (natural gas, nitrogen, CO₂ and water) is included as well. In this way all the exploration, production and storage activities in the Netherlands and the Netherlands part of the Continental shelf, related to the realm of the Mining Act, are combined in this report.

The first section of the annual review deals with developments during the year 2009. As in the preceding years, this section deals with *developments* in the exploration and production of hydrocarbons. This concerns details of changes in natural gas and oil resources during 2009 and the way these changes affected the situation as at 1 January 2010.

This section also presents a prognosis for the gas production for the next 25 years. Subsequently, a number of tables summarise developments during 2009, 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 2009. The subsequent chapters report on the exploration for and production of rock salt and geothermal energy and on the underground storage of substances.

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

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). The annual review contains the data that, in accordance with the provisions of article 125 of the Mining Act, will be presented to both Chambers of the Dutch Parliament on behalf of the Minister of Economic Affairs.

The digital version of this publication can be found at the Netherlands Oil and Gas Portal: www.nlog.nl

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The Hague, June 2010.

CONTENTS

Preface.....	3
Key data 2009.....	9
1. Natural gas resource and future gas supply from within the Netherlands.....	11
2. Oil resources.....	25
3. Licences, Netherlands Territory as at 1 January 2010.....	27
4. Licences, continental shelf as at 1 January 2010.....	29
5. Licences, company changes, name changes and legal mergers in 2009.....	32
6. Seismic acquisition.....	34
7. Oil and gas wells, completed in 2009.....	35
8. Platforms and pipelines, continental shelf.....	39
9. Gas and oil production.....	40
10. Underground gas storage as at 1 January 2010.....	52
11. Coal.....	56
12. Rock salt.....	57
13. Geothermal energy.....	60

ANNEXES

1. Natural gas accumulations by status as at 1 January 2010.....	64
2. Exploration licences, Netherlands Territory as at 1 January 2010.....	75
3. Production licences, Netherlands Territory as at 1 January 2010.....	76
4. Storage licences, Netherlands Territory as at 1 January 2010.....	78
5. Exploration licences, Netherlands Continental Shelf as at 1 January 2010.....	79
6. Production licences, Netherlands Continental Shelf as at 1 January 2010.....	83
7. List of blocks, Netherlands Continental Shelf as at 1 January 2010.....	92
8. Seismic surveys.....	99
9. Oil and gas wells, number of wells Netherlands Territory.....	101
10. Oil and gas wells, number of wells Netherlands Continental Shelf.....	102
11. Number of wells (graphs), Netherlands Territory and Continental Shelf.....	103
12. Platforms, Netherlands Continental Shelf as at 1 January 2010.....	105
13. Pipelines, Netherlands Continental Shelf as at 1 January 2010.....	109
14. Gas production in million Sm ³	115
15. Gas reserves and cumulative production in billion Sm ³	117
16. Oil production in 1 000 Sm ³	119
17. Oil reserves and cumulative production in million Sm ³	121
18. Natural gas revenues 1960 – 2014.....	123
19. Authorities concerned with mining operations.....	125
20. Definitions of selected terms.....	127

APPENDICES

1.	Exploration, production and storage licences as at 1 January 2010	134
2.	Wells and changes in licence situation during 2009	136
3.	Summary of 3D seismic surveys	138
4.	Production platforms and pipelines	140
5.	Gas and oil accumulations and pipelines as at 1 January 2010	142
6.	Coal production licences as at 1 January 2010	144
7.	Rock Salt production licences as at 1 January 2010	145
8.	Geothermal energy licences as at 1 January 2010.....	148
9.	Geological time scale.....	150
10.	Mining Legislation Map	152

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:

-Normal m³ (Nm³). "Normal" relates to the reference conditions: 0° C and 101.325 kPa.

-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 2009

Natural gas and oil resources

The natural gas resources as at 1 January 2010 are estimated at 1390 billion Sm³. 1036 billion Sm³ of these resources reside in the Groningen accumulation, 170 billion Sm³ in the other onshore accumulations and 184 billion Sm³ on the Continental Shelf.

Oil resources add up to 50.0 million Sm³, 37.1 million Sm³ of which are located in the onshore territory and 12.2 million Sm³ on the Continental Shelf.

Licences for hydrocarbons

In 2009 for the onshore territory two exploration licences have been applied for. The exploration licence Andel IV lapsed / was relinquished. Five onshore production licences were awarded: Schagen, Noord-Brabant, Engelen, Peel en Oost-IJssel. Two new production licences have been applied for. One licence was restricted and subsequently awarded. For the Continental Shelf, three exploration licences were applied for and six have been awarded, two extended, five were split, one has been restricted and nine lapsed/ were relinquished. Furthermore, six production licences have been submitted and two were extended. For details see chapters 3 and 4 and annexes 1 and 2.

Wells

A total of 52 one wells have been drilled for oil and gas. That is 24 more than in 2008. In 2009 nine exploration wells have been drilled. From these wells, five struck gas and four were dry. This results in a technical success ratio of 56%.

The remaining wells included six appraisal wells and thirty seven production wells (Territory and Continental Shelf) including seven injection wells and two observation wells. The strong increase in the number of production and injection wells is mainly due to the (re-) development activities at the Schoonebeek oil field. For details see chapter 7 and annex 2.

Gas production

In 2009, total production from Dutch gas fields was 73.7 billion Sm³, 50.3 billion Sm³ from onshore gas fields and 23.4 Sm³ from the offshore gas fields. From the total production 34.0 billion Sm³ was accounted for by the small fields and 39.7 billion Sm³ by the Groningen gas field. The overall production in 2009 was 7.8% lower than in 2008. For details see chapter 9.

Oil production

In 2009, a total of 1.56 million Sm³ of oil was produced in the Netherlands, which is 25.8% less than in 2008. The onshore accumulations produced 0.26 million Sm³, which is almost equal to 2008. Production from offshore oil fields decreased to 1.30 million Sm³ which is 29.6% than in 2008. The average oil production over 2009 was about 4273.2 Sm³ per day. For details see chapter 9.

Gas storage

In 2009 one storage licence was awarded and one submitted. The storage licence application, Q1-Helm, has been withdrawn. Four underground gas storage licences (UGS) are in force. Overall almost 2.7 billion Sm³ have been injected in UGS facilities while discharge was just over 2.7 Sm³. For details see chapter 10.

Coal

No changes in licences for have occurred in 2009. There are five production licences in force. For details see chapter 11.

Rock salt

In 2009 one new exploration licence has been submitted. Furthermore, one production licence has been split. As at 1 January 2010 11 production licences are in force. The production of rock salt in 2010 was 6.0 million tons. For details see chapter 12.

Geothermal energy

Like in 2008, many exploration licences (eighteen) have been submitted. Thirty-two exploration licences have been awarded and one was split. One production licence has been awarded (Heerlen). For details see chapter 13.

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

INTRODUCTION

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 2010 and changes compared to 1 January 2009. 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 25 years (2010 until 2034).

In accordance with the Mining Act the operators annually report remaining reserve estimates for developed accumulations as well as the prognoses for the remaining production. Since June 2007 the production prognosis for the entire remaining production per accumulation per year are reported to the Minister (Mining decree, article 113). This chapter is based on these figures.

This report refers to conventional resources only. Although there is a growing interest in unconventional resources (such as shale gas, coal bed methane etc) they have not been included in this review because of their speculative character.

Unconventional gas is gas present in rocks from which it can only be produced by unconventional means such as (multi) lateral wells and (multi) fracking of the reservoir rock. Although these techniques have been successfully applied in the USA over the last decade, here in the Netherlands exploration for unconventional gas is still very immature. Both the potential volumes present in the subsurface as the commercial attractiveness will have to be proven. Energie Beheer Nederland (EBN) and TNO are currently investigating this. Moreover a number of companies have recently acquired licences to explore for unconventional gas in the Netherlands.

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 producible gas 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

As at 1 January 2010 there are 430 proven natural gas accumulations in the Netherlands (table 1). At present, the majority of these accumulations is developed (239), i.e. producing (235) or operational as gas-storage facilities (4). Of the 112 accumulations that have not been developed as yet, 43 are expected to start producing within five years (between 2010

and 2014). Whether the remaining 69 accumulations will ever be developed is uncertain. Of all accumulations that have ever been developed, 79 have (temporarily) ceased production.

Compared to January 1st 2009 the number of accumulations has increased with 10. New discoveries account for 4 of these accumulations (table 5). One field was formerly classified as an oil field (Fo3-FB). Five fields were not listed last year. This was either by mistake or because their resources were not concerned economic.

Table 1. Number of proven natural gas accumulations sorted by status as at 1 January 2010

Status of accumulations	Onshore Territory	Continental Shelf	Total
I. Developed			
a. producing	100	135	235
b. gas-storage facility	4	0	4
II. Undeveloped			
a. start of production 2010-2014	14	29	43
b. others	29	40	69
III. Production ceased			
abandoned	19	13	32
closed in	19	28	47
Total	185	245	430

The accumulations with a status change from 2008 to 2009 are shown in table 2.

A complete overview of all accumulations is listed in annex 1. Accumulations are sorted by status and stating operator and licence. In accordance with the Mining Act, production plans or storage plans have been submitted for all developed accumulations.

Table 2. Gas accumulations with a status change in 2009.

Accumulation	Operator	Licence	Status 2009	Status 2008
Bergen	TAQA	Bergen II	T	W
Blesdijke	Vermilion	Steenwijk	W	NP<5
Faan	NAM	Groningen	W	NP<5
Franeker	Vermilion	Leeuwarden	T	W
Gasselternijveen	NAM	Drenthe II	W	NP<5
Geesbrug	N. Petroleum	Drenthe III	W	NP<5
Groet	TAQA	Bergen II	W	U
Grolloo	Northern Petroleum	Drenthe IV	W	NP<5
Harlingen L Cret.	Vermilion	Leeuwarden	T	W
Hollum-Ameland	NAM	Noord-Friesland	NP<5	NP>5
Houwerzijl	NAM	Groningen	W	U
Lankhorst	NAM	Schoonebeek	NP>5	
Marknesse	SES	Marknesse	NP<5	
Marum	NAM	Groningen	T	W
Marumerlage	NAM	Groningen	NP<5	NP>5
Metslawier	NAM	Noord-Friesland	T	W
Nes-Noord	NAM	Noord-Friesland	NP<5	NP>5

Accumulation	Operator	Licence	Status 2009	Status 2008
Oldenzaal	NAM	Rossum-de Lutte	T	W
Oostrum	NAM	Noord Friesland	W	
Oude Leede	NAM	Rijswijk	NP>5	
Oude Pekela	NAM	Groningen	T	W
Rammelbeek	NAM	Twenthe	NP>5	NP<5
Reedijk	NAM	Botlek	T	W
Rossum-Weerselo	NAM	Rossum-de Lutte	T	W
Rustenburg	NAM	Middelie	W	NP<5
Schermer	TAQA	Bergen II	T	W
Terschelling-Noord	NAM	Noord-Friesland	NP<5	NP>5
Tubbergen	NAM	Tubbergen	T	W
Usquert	NAM	Groningen	NP>5	NP<5
Vinkega	Vermilion	Gorredijk	NP<5	
Zevenhuizen-West	NAM	Groningen	NP<5	NP>5
D15 Tourmaline	Wintershall	D15	NP>5	NP<5
E17-A	GDF Suez	E17a	W	NP<5
E18-A	Wintershall	E18	W	NP<5
F03-FB	GDF Suez	F03	W	
F2-Hanze Pliocene	Petro Canada	F02a	W	NP<5
K05-G	Total	K05a	T	W
K06-N	Total	K06	T	W
K07-FE	NAM	K07	T	W
K08-FB	NAM	K08	NP>5	NP<5
K08-FE	NAM	K09	removed	NP>5
K09c-B	GDF	K09c	NP<5	
K15-FD	NAM	K15	NP<5	NP>5
K15-FN	NAM	K15	W	
K15-FP	NAM	K15	W	
L/11b	Chevron	L11b	U	W
L02-FA	NAM	L02	T	W
L02-FC	NAM	L02	NP<5	NP>5
L06-B	WIN	L06	NP<5	
L08-D	Cirrus Energy	L08a	W	NP<5
L09-FA	NAM	L09a	W	NP<5
L09-FB	NAM	L09a	W	NP<5
L09-FE	NAM	L09b	W	NP<5
L09-FJ	NAM	L09b	W	
L09-FK	NAM	L09b	W	
L09-FL	NAM	L09b	W	
L10-S2	GDF Suez	L10	T	W
L10-S4	GDF Suez	L10	T	W
L13-FF	NAM	L13	W	U
M07-A	Cirrus Energy	M07	W	NP<5
M09-FA	NAM	M09a	NP<5	NP>5
M10-FA	Ascent	M10	NP>5	
P06 South	Wintershall	P06	T	W
P09-A	Wintershall	P09c	W	NP<5

Accumulation	Operator	Licence	Status 2009	Status 2008
P09-B	Wintershall	P09c	W	NP<5
P15-12	TAQA	P15a	T	W
Q02-A	Wintershall	Q02a	NP<5	NP>5
Q08-A	Wintershall	Q08	T	

- W: Producing
- NP<5: undeveloped gas accumulation, production start expected within 5 years
- NP>5: undeveloped gas accumulation, production start unknown
- T: production ceased temporarily
- U: production ceased

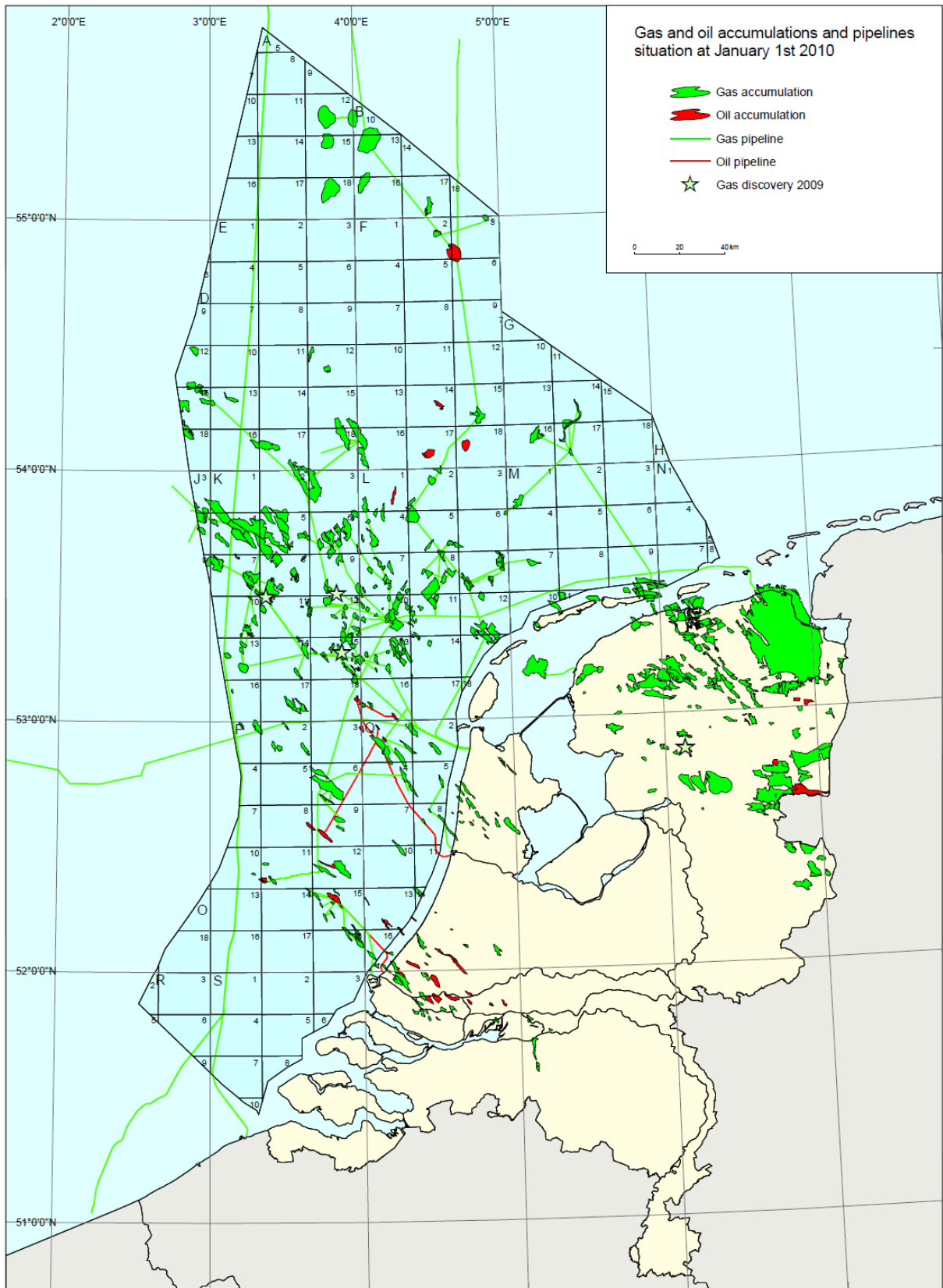


Figure 1. Outline map showing oil and gas accumulations in the Netherlands (as at 1 January 2010).

RESOURCE ESTIMATES

Reserves as at 1 January 2010

The reserve estimates for developed accumulations are based on the figures and information supplied 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. 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.

The reserves in both the developed and undeveloped accumulations add up to 1390 billion Sm³ (table 3a).

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 reserves total 1036 billion Sm³ for the Groningen accumulation and 335 billion Sm³ for the small fields. The remaining reserves present in the Norg, Grijpskerk and Alkmaar accumulations, prior to these fields being converted to underground gas storage facilities (altogether some 19 billion Sm³ or 20 m³ Geq) are separately mentioned as UGS cushion gas. The Bergermeer accumulation had no remaining reserves at the time of conversion. This 'cushion 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 2010-2014 (see listing of natural gas accumulations with the status *Non developed* in annex 1). A part of this last group of accumulations may indeed have commercial potential, but future materialisation in terms of reserves greatly depends on advances in technology, infrastructure, costs and market prices. The reserves in the undeveloped accumulations amount to 55 billion Sm³.

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.

Table 3a. Gas resources in the Netherlands as at 1 January 2010 in billions of Sm³

Accumulations	Developed		Undeveloped	Total
		UGS*		
Groningen	1036		0	1036
Others Territory	139	19	12	170
Continental Shelf	141	0	44	184
Total	1316	19	55	1390

* UGS Cushion gas, for explanation see paragraph 'Developed accumulations'

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 2010 in billions of m³Geq

Accumulations	Developed		Undeveloped	Total
		UGS*		
Groningen	979		0	979
Others Territory	145	20	11	176
Continental Shelf	144		42	186
Total	1268	20	53	1342

* UGS Cushion gas, for explanation see paragraph 'Developed accumulations'

Revisions compared to 1 January 2009

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

- new discoveries;
- re-evaluations and status changes of previously proven accumulations;
- production during 2009.

The net result is an increase of the resource by 24.6 billion Sm³ compared to 1 January 2009 (increasing from 1366 billion Sm³ in 2008 to 1390 billion Sm³ in 2009).

A brief explanation of these figures follows below.

Table 4. Revisions of expected gas resource compared to 1 January 2009, in billion Sm³

Area	New discoveries	Re-evaluations	Production	Total
Groningen field	0.0	42.7	-39.7	3.0
Others Territory	0.1	31.6	-10.6	21.1
Continental Shelf	3.0	20.9	-23.4	0.5
Total	3.1	95.2	-73.7	24.6

New discoveries

The table below lists the 4 gas accumulations that were discovered during 2009. Their locations are indicated by asterisks in Figure 1. According to preliminary estimates, these new discoveries will add approximately 3.1 billion Sm³ to the Dutch gas resource.

Table 5. Gas accumulations discovered in 2009

Name accumulation	Discovery well	Licence area	Operator
Vinkega	Vinkega-01	Gorredijk	Vermilion
L06-B	L06-07	L06b	Wintershall
K09c-B	K09-12	K09	GDF Suez
K15-FP	K15-FB-108	K15	NAM

Revisions

Both producing and non producing gas accumulations are periodically evaluated by their operators to implement economical and technical developments. These evaluations may lead to adjustments of the reserves. In 2009 they have resulted in an upward revision of the gas reserves by 95.2 billion Sm³.

The relatively large revision of the reserves of the Groningen field and the small fields is related to adjustments based on the production performance of the fields and on the application of technical improvements. For the Groningen field the adjustments are related to the revision of the long term field development plan. This concerns, amongst others, the application of extra compression, the phased approach to cease production from the super production clusters, foam injection (deliquification) in production wells and the development of a number of peripheral reservoir blocks. The revision of the gas reserves in the so called small fields is the result of the adjustment based on either production performance or technical interventions such as drilling of new wells, application of extra compression, deliquification of production wells by foam or pumps, or an extension of the production life of the field. Besides this some reserves may have changed due to new insights from a new operator. In all cases the changes in reserves are based on proven technology.

EXPLORATION POTENTIAL

TNO updates the Dutch prospect portfolio for natural gas annually. This is, amongst others, based on the annual reports submitted by the operators (ex art. 113 Mining Decree).

Geological units and prospects

TNO focuses on evaluation of the so called ‘proven plays’. These are geological units for which it is legitimate to assume that they meet the necessary geological conditions to enable the formation of natural gas accumulations. This assumption is based on data and earlier gas discoveries. Within those proven plays all mapped and evaluated prospects, based on existing data, will be considered as the prospect portfolio. Hypothetical plays and prospects will not be considered due to their speculative character. Although the first studies on the prospectivity for unconventional gas resources such as shale gas and coal bed methane have been published, they have not been incorporated in this reviews figures. At this stage the exploration potential of these unconventional resources is considered to be too speculative.

Portfolio characteristics

The prospect portfolio is characterised by the number of prospects and its associated volume of gas. The volume of a prospect can be expressed in terms of the expected recoverable volume in case of a discovery (the so called *Mean Success Volume*, MSV) or in terms of the *risked volume* (the so called *Expectation*, EXP), which is the product of the MSV and the Possibility of Success (POS).

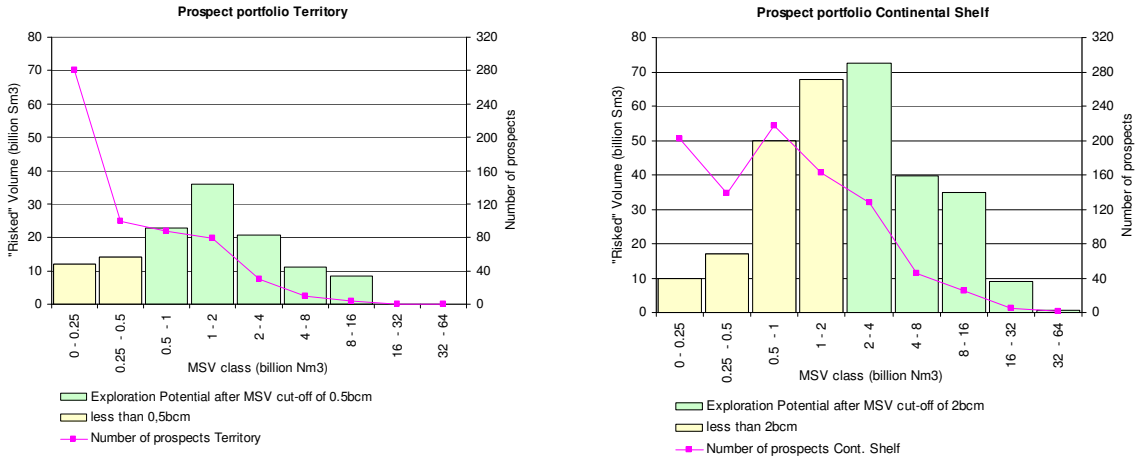


Figure 2: Prospect portfolio characteristics. The exploration potential, after applying a MSV cut-off, is represented by the green columns.

The prospect portfolio characteristics as at 1.1.2010 are presented in figure 2 for the prospects under the Territory as well as the Continental shelf. The number of prospects and the *risked volumes* are shown per MSV volume class. The figure shows a remarkable bell shaped distribution.

Exploration potential

The exploration potential is that part of the prospect portfolio that meets certain minimum conditions. Since the first report on the exploration potential in 1992 a cut-off was defined for the expected recoverable volume in case of discovery (MSV). This cut-off was set at 0.5 billion m³ for prospects under the Territory and at 2 billion m³ for prospects under the Continental Shelf. The green columns in figure 2 represent the risked volume of the prospects that meet this MSV cut-off. This volume is called the exploration potential based on the MSV cut-off.

The estimate of the exploration potential (see Table 6) is expressed as a numerical range, to stress the inherent highly uncertain nature.

Table 6. Exploration potential for natural gas based on MSV cut-off as per January 1, 2010.

Area	MSV cut-off [billion Sm ³]	Exploration potential [billion Sm ³]
Territory	0,5	60 – 140
Continental Shelf	2	95 - 220

The consequence of a minimum MSV based cut-off is that other factors determining the commercial attractiveness of a prospect are not considered. These factors are partly related to individual prospects (possibility of success, distance to infrastructure, type of field development, gas quality, productivity etc.) and partly on generic factors such as expenses and revenues.

An alternative cut-off, for the first time presented in the annual review of 2006, is based on a positive net present value of a prospect. Per prospect the *Expected Monetary Value* (EMV) is derived from the net present value considering the exploration risk using a discounted cash flow model. This model determines the commercial attractiveness of a prospect incorporating the factors mentioned above.

As an example table 7 shows the expectation value for the exploration potential after applying an EMV cut-off (prospects with a positive EMV at an oil price scenario of 75 US\$ per barrel). Compared to the figures in table 6 the EMV > 0 cut-off results in volumes in the lower range of the exploration potential based on the MSV cut-off.

Table 7. Exploration potential natural gas as at 1 January 2010.
Commercial conditions: (EMV > 0), and an oil price of 75 US\$ per barrel.

Area	Expectation Exploration Potential [Billion. Sm ³]
Territory	70
Continental Shelf	103

Exploration potential trend/history

The exploration potential (after MSV cut-off) for natural gas in the Netherlands has not significantly changed since 1992 (first report on the exploration potential). The low estimate amounts to approximately 100 billion m³ for the Continental Shelf. For the Territory the low estimate was similar until 2003, subsequently it gradually declined to approximately 60 billion

m³. Since 1992 the high estimate for the Territory has gradually decreased from 200 to 100 billion m³ and varied between 200 and 400 billion m³ for the Continental Shelf.

In the course of time, part of the exploration potential has successfully been drilled converting the potential volumes into actual reserves. This is expressed in the increasing length of the green columns (cumulative production and remaining reserves) in figure 3. The exploration potential of 100 billion m³ for the Territory as reported in 1992 had already been added to the reserves in 1996. The fact that nonetheless the exploration potential remains stable is due to the dynamics in the prospect portfolio on which the estimations of the exploration potential are based. Each year prospects are disposed from the portfolio by drilling exploration wells, but at the same time new prospects are added. Evaluations of prospects may also lead to changes in the values of the prospect portfolio.

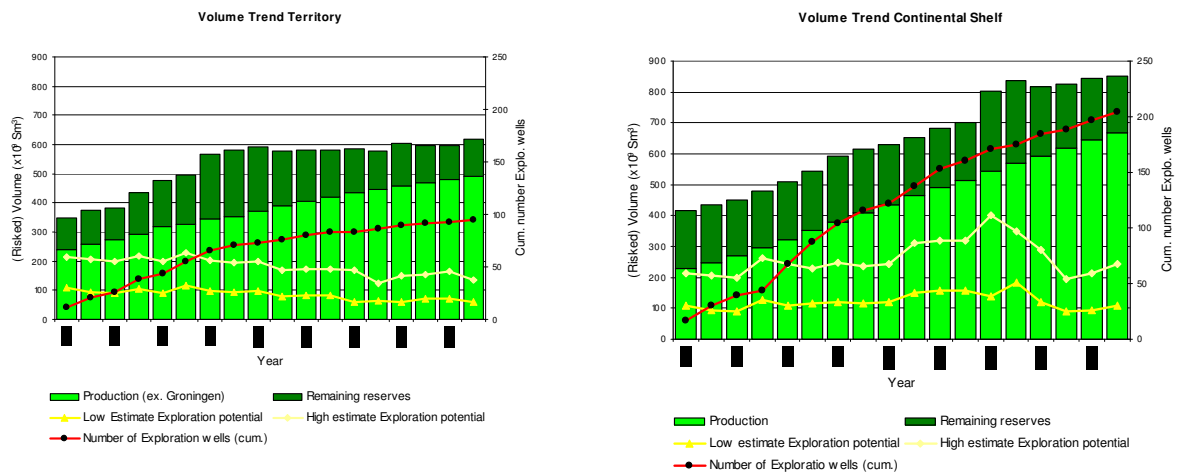


Figure 3: Reserves from 1992 through 2009 (excluding the Groningen gas field).

GAS SUPPLY FROM WITHIN THE NETHERLANDS

This section deals with the developments in the supply of gas produced from within the Netherlands that can reasonably be expected for the next 25 years (2010 to 2034).

The supply of gas produced from within the Netherlands can be subdivided in the production from the Groningen accumulation and the production from the other accumulations, the so called *small fields*. 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 2010. All volumes in the present section are quoted in billions of m³ Groningen Gas Equivalent (heating value of 35.17 MJ/Nm³) abbreviated to m³Geq.

The estimated supply from the Groningen accumulation has been derived on the basis of the maximum allowed production until 2015 and the expected production after that:

- The **maximum allowed production** from the Groningen accumulation, based on the amendment to article 55 of the Gas Act, has been limited to 425 billion m³Geq for the period 2006 – 2015. The purpose of setting a maximum allowance is to ensure that the Groningen accumulation can continue to fulfil its function as a swing producer to for the small fields policy for a sufficiently long period of time. The function as swing producer implies that the actual annual production of the Groningen accumulation is difficult to estimate. Therefore the supply from the Groningen accumulation until and including 2015 has been profiled as 47.3 billion m³Geq per annum (this totals to the remaining volume of the above mentioned 425 billion m³Geq minus the realised production since 2006). For the period 2010-2015.
- From 2016 onwards the **production profile** is deduced from the Production plan of the Groningen accumulation.

The estimated supply from the small fields has been prepared on the basis of the following data:

- the 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 five year period from 2010 to 2014**.
- 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 wells that is expected to be drilled (10 exploration wells per year and a risked value to investment ratio (RVIR) of 0.1), the expected producible volumes of the prospects and the probability of success.

Together with the actual gas production of natural gas in the Netherlands from 2000 to 2009 figure 2 displays the production prognosis for the next 25 years (2010-2034) based on above mentioned data.

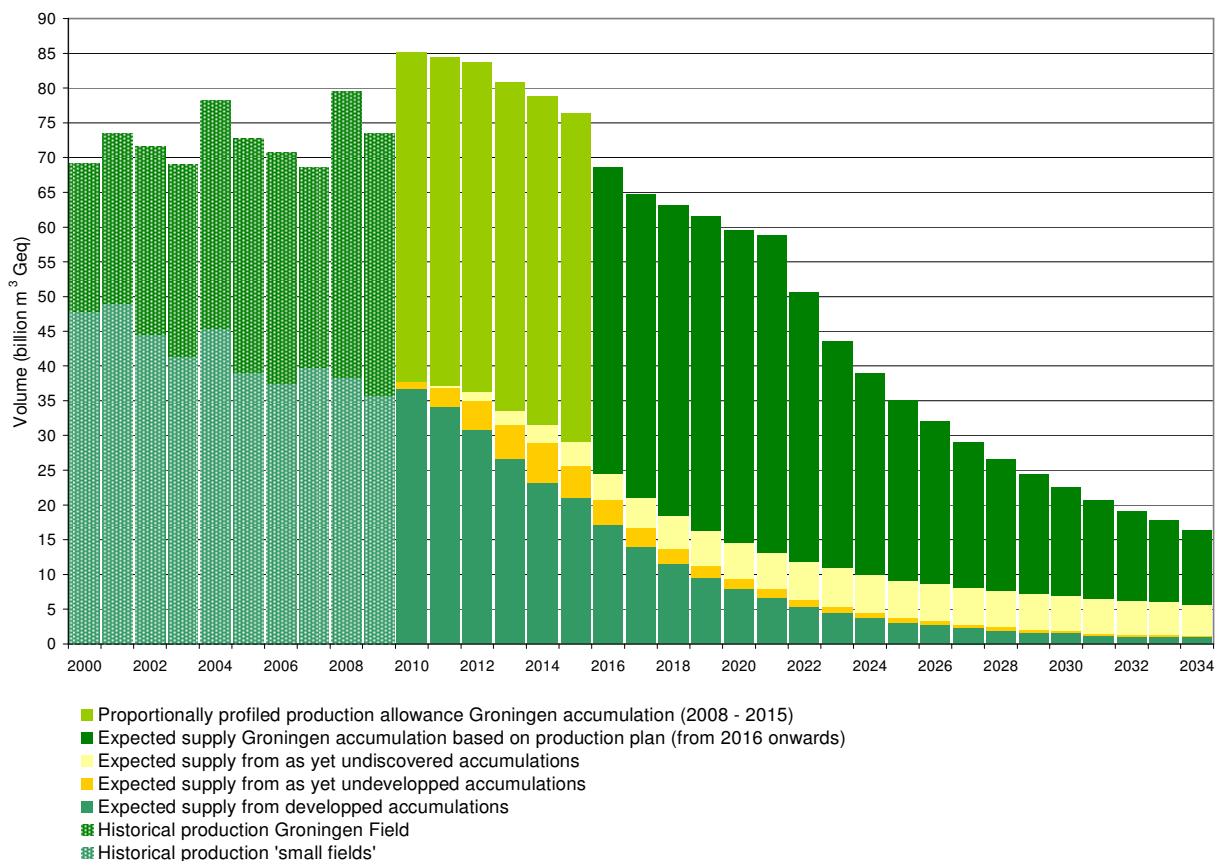


Figure 2. Actual production of natural gas in the Netherlands from 2000 - 2009 and production prognosis the period 2010 - 2034.

The production in 2009 from the small fields was according to prognosis. The production from the Groningen accumulation was significantly less than the maximum allowed production. For the years to come it is expected that the small fields will show a small increase of production in 2010 after which production will gradually decline to approximately 5 billion m³ Geq in 2034. It is expected that the Groningen accumulation will start to decline after 2021. In 2034 the field is expected to produce approximately 10 billion m³ Geq.

The maximum expected supply from Dutch accumulations during the next ten years is 747 billion m³ Geq, assuming the maximum possible production from the Groningen accumulation (table 8). This production will consist of 286 billion m³ Geq from small fields supplemented by a maximum of 462 billion m³ Geq from the Groningen accumulation.

Table 8. Gas supply from within the Netherlands for the 10 year period from 2010 - 2019 and the 25 year period 2010 - 2034, in billion m³Geq

Supply	2010 – 2019	2010 – 2034
Small fields		
Discovered - developed	225	271
Discovered - undeveloped	33	42
Still to be discovered	28	105
Subtotal Small fields	286	418
Groningen accumulation*	462	824
Total supply from within the Netherlands	747	1243

* This is the maximum quantity of gas from the Groningen accumulation based on the Gas Act (article 55).

2. OIL RESOURCES

As at 1 January 2010 there are 44 proven natural oil accumulations in the Netherlands (table 9). At present, 11 of these accumulations are producing. In comparison with January 1, 2009 F3-FB has a new operator and will be classified as a gas field as from now on.

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

Table 9. Number of proven oil accumulations as at 1 January 2010

Status of oil accumulations	Onshore Territory	Continental Shelf	Total
I. Developed			
a. producing	2	19	11
II. Undeveloped			0
a. start of production 2010-2014	4	2	6
b. others	8	11	19
III. Production ceased			0
closed in	0	1	1
abandoned	7	0	7
Total	21	33	54

Oil reserves as at January 1st, 2010

The 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.

The oil reserves in both the developed and undeveloped accumulations add up to 50.0 million Sm³ (table 10).

Table 10. Dutch oil reserves in million Sm³ as at 1 January 2010

Area	Developed	Undeveloped	Total
Territory	4.6	32.5	37.1
Continental Shelf	4.7	8.2	12.9
Total	9.3	40.7	50.0

Revisions compared to 1 January 2009

Table 11 lists the revisions to the Dutch oil resource, resulting from

- new finds;
- re-evaluations and status changes of previously proven accumulations;
- production during 2009.

The net result is a strong increase of the resource by 15.7 million Sm³ compared to 1 January 2009. The large increase of reserves is mainly the result of re evaluations of both producing and non producing fields. Offshore, two formerly stranded fields have been appointed reserves by the new operator. Onshore the reserves of a number of fields have been significantly increased as a result of new development plans. The oil production in 2009 amounts to 1.5 million Sm³.

Table 11. Revisions of expected gas resource compared to 1 January 2009, in million Sm³

Area	Change as a result of:			
	new finds	(re) evaluation	production	total
Territory	0	12.2	-0.3	11.9
Continental Shelf	0	5.0	-1.3	3.7
Total	0	17.2	-1.6	15.6

3. LICENCES, Netherlands Territory as at 1 January 2010

Changes in the licences for the exploration and production of hydrocarbons in the onshore Territory, which took place during 2009, are listed in the tables below. Also listed are all other current licence applications. In 2009 production licences on the Netherlands Territory were held by five operators.

Total area	Under licence	Under licence
41 785 km ²	22 518 km ²	53.9 %

EXPLORATION LICENCES, Netherlands Territory

Applied for

Licence	Publication	Date	Closing date	Applicant(s)
Schiermonnikoog-Noord *	Staatscourant 193	06-10-92		GDF
Noordoostpolder	Staatscourant 67	18-03-09	17-06-09	Cuadrilla
Terschelling-West	Staatscourant 758	24-12-09	25-03-10	

* Current application, formerly published in Annual Report Oil and Gas

Lapsed/relinquished

Licence holder	Licence	In force	km ²
Nederlandse Aardolie Maatschappij B.V.	Andel IV	31-01-09	85
Total			85

Awarded

Licence holder	Licence	In force	km ²
Smart Energy Solutions B.V. cs	Schagen	20-06-09	355
Cuadrilla Resources Ltd.	Noord-Brabant	14-10-09	1929
Northern Petroleum Nederland B.V.	Engelen	14-10-09	97
DSM Energie (Rijn) B.V.	Peel	17-11-09	365
Queensland Gas Company Limited	Oost-IJssel	17-11-09	3662
Total			6408

PRODUCTION LICENCES, Netherlands Territory

Applied for

Licence	Publication	Date	Closing date	Applicant(s)
Terschelling *	Government Gazette 91	11-05-95		NAM
Akkrum *	Official Journal EU, C 287	24-11-04		Wintershall cs
	Government Gazette 230	29-11-04		
Marknesse	Official Journal EU, C 17	23-01-09	24-04-09	Smart
	Government Gazette 28	11-02-09		
Z-Friesland III	Official Journal EU, C 99	30-04-09	30-07-09	NAM cs
	Government Gazette 95	27-05-09		

* Current application, formerly published in Annual Report Oil and Gas

Restricted

Licence holder	Licence	In force	km ²
Smart Energy Solutions B.V.	Donkerbroek	28-12-09	22
		Total	22

Extended

Licence holder	Licence	In force	km ²
Smart Energy Solutions B.V.	Donkerbroek	28-12-09	22
		Total	217

4. LICENCES, Continental Shelf as at 1 January 2010

Changes in the licences for the exploration, production on the Continental Shelf, which took place during 2009, are listed in the tables below. Also listed are all other current licence applications. In 2009 production licences on the Continental Shelf were held by thirteen operators.

Total area	Under licence	Under licence
56 814 km ²	29 512 km ²	51.9 %

EXPLORATION LICENCES, Continental Shelf

Applied for

Licence	Publication	Date	Closing date	Applicant(s)
F12	Official Journal EU, C 84 Government Gazette 85	08-04-09	08-07-09	Cirrus
F15b & F15c	Official Journal EU, C 84 Government Gazette 85	08-04-09	08-07-09	Cirrus
F13b	Official Journal EU, C 246 Government Gazette 19237	14-10-09	13-01-10	Petro-Canada cs

Awarded

Licence holder	Licence	In force	km ²
Petro-Canada cs	F6b	07-04-09	390
Valhalla Oil and Gas Ltd.	F11	07-04-09	401
Wintershall Noordzee B.V. cs	K3e	22-04-09	258
GDF SUEZ E&P Nederland B.V.	E9	22-04-09	400
Tullow Netherlands B.V.	E11	22-04-09	401
GDF SUEZ E&P Nederland B.V.	E12	22-04-09	401
Total			2 251

Prolonged

Licence holder	Licence	In force	km ²
Tullow Netherlands B.V.	E11	01-08-09	401
Cirrus Energy Nederland B.V. cs	L16b	30-10-09	176
Total			577

Split

Licence holder	Licence	In force	km ²
- Original			
Cirrus Energy Nederland B.V.	Q16b		80
Grove Energy Ltd. cs	F14		403
Grove Energy Ltd. cs	F18		404
Wintershall Noordzee B.V. cs	F17a		386
Grove Energy Ltd. cs	L1b		339
- After splitting			
Cirrus Energy Nederland B.V.	Q16b & Q16c-ondiep	17-02-09	80
Cirrus Energy Nederland B.V.	Q16b & Q16c-diep	17-02-09	80
Grove Energy Ltd. cs	F14-ondiep	30-12-09	403
Grove Energy Ltd. cs	F14-diep	30-12-09	403
Grove Energy Ltd. cs	F18-ondiep	30-12-09	404
Grove Energy Ltd. cs	F18-diep	30-12-09	404
Wintershall Noordzee B.V. cs	F17a-ondiep	30-12-09	386
Wintershall Noordzee B.V. cs	F17a-diep	30-12-09	386
Grove Energy Ltd. cs	L1b-ondiep	30-12-09	339
Grove Energy Ltd. cs	L1b -diep	30-12-09	339

Restricted

Licence holder	Licence	In force	km ²
Smart Energy Solutions B.V. cs	Q2a	28-12-09	21
Total			21

Lapsed/relinquished

Licence holder	Licence	In force	km ²
RWE Dea AG	B14	29-07-09	198
Ascent Resources Netherlands B.V.	M8a	19-08-09	264
Ascent Resources Netherlands B.V.	P4	19-08-09	170
Valhalla Oil and Gas Ltd.	F11	31-08-09	401
Total E&P Nederland B.V.	L3	09-11-09	406
Cirrus Energy Nederland B.V. cs	Q11	23-12-09	162
Cirrus Energy Nederland B.V. cs	Q14	16-12-09	25
GDF SUEZ E&P Nederland B.V.	E9	17-12-09	400
GDF SUEZ E&P Nederland B.V.	E12	17-12-09	401
Total			2 427

PRODUCTION LICENCES, Continental Shelf

Applied for

Licence	Publication	Date	Closing date	Applicant(s)
A12b & B10a *	-	20-01-00	-	Chevron cs
B16a *	-	06-05-93	-	Chevron cs
B17a *	-	30-05-97	-	Venture cs
D18a *	-	04-07-97	-	GDF cs
Q2a *	-	26-07-06	-	Smart cs
A15a *	-	07-02-07	-	Venture cs

* Current application, formerly published in the Annual Report Oil and Gas

Awarded

Licence holder	Licence	In force	km ²
Petro-Canada Netherlands B.V.	P10b	07-04-09	100
Total E&P Nederland B.V. cs	K01b & K02a	20-06-09	75
		Totaal	175

5. LICENCES, company changes, name changes and legal mergers in 2009

The tables below give a chronological list of changes which took place during 2009, 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.

Chronological overview of company changes in exploration licences

Licence	Relinquishing company	Acquiring company	In force	Government Gazette
Q16bc-ondiep	Cirrus Energy Nederland B.V.	Delta Hydrocarbons NL B.V.	17-02-09	37
Q16bc-diep	-	Energy06 Investments B.V.	17-02-09	37
Q2a	Wintershall Noordzee B.V.	Smart Energy Solutions B.V.	18-02-09	41
E13b	-	Dyas B.V.	14-03-09	54
E16b	-	Dyas B.V.	14-03-09	54
A12b & B10a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1338
B16a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1345
B17a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1347
D18a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1348
F14-ondiep	GDF SUEZ E&P Nederland B.V.	-	30-12-09	153
	Rosewood Exploration Ltd.			
	TAQA Licenses Offshore B.V.			
	Wintershall Noordzee B.V.			
F14-diep	Grove Energy Ltd.		30-12-09	153
	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.		
F18-ondiep	GDF SUEZ E&P Nederland B.V.	-	30-12-09	152
	Rosewood Exploration Ltd.			
	Wintershall Noordzee B.V.			
F18-diep	Grove Energy Ltd.	-	30-12-09	152
F17a-ondiep	GDF SUEZ E&P Nederland B.V.	-	30-12-09	154
	Rosewood Exploration Ltd.			
	TAQA Licenses Offshore B.V.			
	Wintershall Noordzee B.V.			
F17a-diep	Grove Energy Ltd.		30-12-09	154
	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.		
L1b-ondiep	GDF SUEZ E&P Nederland B.V.	-	30-12-09	149
	Rosewood Exploration Ltd.			
	Wintershall Noordzee B.V.			
L1b-diep	Grove Energy Ltd.	-	30-12-09	149

Chronological overview of approval granted to transfer production licences

The approval remains valid one until year after publication of the decision.

Licence	Relinquishing company	Acquiring company	Publication date	Government Gazette
E15a	Total Gas Nederland B.V.	-	16-07-09	11851
E18a	Total Gas Nederland B.V.	-	16-07-09	11072
F13a	Total Gas Nederland B.V.	-	16-07-09	11852
E15b	Total Gas Nederland B.V.	-	16-07-09	11889
L11b	Chevron E. and P. Netherlands B.V.	-	14-07-09	12206
Q13a	TAQA Amstel Field B.V.	TAQA Offshore B.V.	14-07-09	12210
Donkerbroek	LEPCO Oil & Gas Netherlands B.V.	-	06-11-09	19499
A12a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1336
A12d	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1341
A18a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1342
B10c & B13a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1343
F2a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1349
F3b	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1351
F6a	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1352
G14 & G17b	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	1355
L11b	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	214
M7	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	218
P9a & P9b	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	219
P9c	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	225
P15a & P15b	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	223
P15c	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	224
Q1	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	227
Q2c	TAQA Licenses Offshore B.V.	TAQA Offshore B.V.	28-12-09	240

Name changes

Previous company name	New company name
Burlington Resources Nederland Petroleum B.V.	Nuon Exploration & Production The Netherlands B.V.
Goal Petroleum (Netherlands) B.V.	Total Gas Nederland B.V.
Oyster Energy B.V.	Elko Exploration B.V.
DSM Energie B.V.	TAQA Licenses Offshore B.V.

Legal mergers

Merging company	New company
Total E&P Nederland B.V. Total Gas Nederland B.V.	Total E&P Nederland B.V.

6. SEISMIC ACQUISITION

Although 3D seismic acquisition is decreasing, this is compensated by the reprocessing of numerous existing 3D datasets using new technology.

All seismic acquisition surveys shot during 2009 are listed in the tables below. Historical summaries can be found in Annex 9.

NETHERLANDS TERRITORY

Onshore neither 2D nor 3D seismic surveys have been acquired in 2009.

CONTINENTAL SHELF

No offshore 3D surveys have been acquired in 2009. One 2D survey has been carried out in the northern part of the Dutch Continental shelf.

2D Seismic surveys

Area	Company	Status	length (km)
A- B- D- E- and F blocks	TGS-NOPEC	Completed	1849
		Total	1849

7. OIL AND GAS WELLS, completed in 2009

The tables below list all wells drilled and ended during 2009, sorted by drilling location: either on the Territory or on the Continental Shelf. Subsequently they are 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, but its status will be labelled 'producing'. The category 'Other wells' concerns wells such as injection wells. The column showing the results gives the technical result. A well that strikes gas will be categorised as a gas well even if the gas will not be developed.

Striking are the 21 wells that were drilled as part of the redevelopment of the Schoonebeek oilfield. Twelve of these wells are production wells, the remaining nine are observation and steam-injection wells.

NETHERLANDS TERRITORY

Exploration wells

	Well name	Licence	Operator	Result
1	Nieuwendijk-01	Andel III	Northern Petroleum	dry
2	Vinkega-01	Gorredijk	Vermilion	gas

Appraisal wells

	Well name	Licence	Operator	Result
1	Hoogezand-01	Groningen	NAM	gas
2	Westbeemster-02	Middelie	NAM	gas
3	Witten-03	Drenthe II	NAM	gas

Production wells

	Well name	Licence	Operator	Result
1	Ameland Oost-205-Sidetrack1	Noord Friesland	NAM	gas
2	Gasselternijveen-01-Sidetrack2	Drenthe II	NAM	gas
3	Middelburen-02	Gorredijk	Vermilion	gas
4	Middenmeer-03	Slootdorp	Vermilion	gas
5	Munnekezijl-01-Sidetrack1	Noord Friesland	NAM	gas
6	Schoonebeek-1301	Schoonebeek	NAM	oil
7	Schoonebeek-1302	Schoonebeek	NAM	oil
8	Schoonebeek-1401	Schoonebeek	NAM	oil
9	Schoonebeek-1402	Schoonebeek	NAM	oil
10	Schoonebeek-1501	Schoonebeek	NAM	oil
11	Schoonebeek-1502	Schoonebeek	NAM	oil

12	Schoonebeek-1503	Schoonebeek	NAM	oil
13	Schoonebeek-1504	Schoonebeek	NAM	oil
14	Schoonebeek-1505	Schoonebeek	NAM	oil
16	Schoonebeek-1601	Schoonebeek	NAM	oil
15	Schoonebeek-1602	Schoonebeek	NAM	oil
17	Schoonebeek-1701	Schoonebeek	NAM	oil

Other wells

	Well name	Licence	Operator	Purpose
1	Schoonebeek-1351	Schoonebeek	NAM	injection*
2	Schoonebeek-1352	Schoonebeek	NAM	injection*
3	Schoonebeek-1391	Schoonebeek	NAM	observation
4	Schoonebeek-1392	Schoonebeek	NAM	observation
5	Schoonebeek-1451-Sidetrack 1	Schoonebeek	NAM	injection*
6	Schoonebeek-1452	Schoonebeek	NAM	injection*
7	Schoonebeek-1551	Schoonebeek	NAM	injection*
8	Schoonebeek-1651	Schoonebeek	NAM	injection*
9	Schoonebeek-1751	Schoonebeek	NAM	injection*

* Steam injection

CONTINENTAL SHELF

Exploration wells

	Well name	Licence	Operator	Result
1	E09-03	E09	GDF Suez	dry
2	E16-04	E16b	GDF Suez	dry
3	K08-FA-109	K11	NAM	gas
4	K09-12	K09c	GDF Suez	gas
5	K15-FB-108	K15	NAM	gas
6	L05-12	L05a	GDF Suez	dry
7	L06-07	L06a	Wintershall	gas

Appraisal wells

	Well name	Licence	Operator	Result
1	G16-09	G16a	GDF Suez	gas
2	L11-13	L11b/L08b	Cirrus	gas
3	Q01-28	Q01	Wintershall	gas

Production wells

	Well name	Licence	Operator	Result
1	E17-A-01	E17a	GDF Suez	gas
2	E17-A-02	E17a	GDF Suez	gas
3	F02-B-01	F02a	Petro-Canada	gas
4	F16-A-07	F16	Wintershall	gas
5	F03-FB-108-Sidetrack1	F03b	GDF Suez	gas
6	K05-CU-01	K05b	Total	gas
7	K06-GT-03-Sidetrack1	K06	Total	gas
8	K06-N-02-Sidetrack1	K06	Total	gas
9	K12-G-09	K12	GDF Suez	gas
10	K15-FG-106-Sidetrack1	K15	NAM	gas
11	M07-A-01-Sidetrack1	M07	Cirrus	gas

SUMMARY DRILLING OPERATIONS DURING 2009

	Type of well	Result				Total
		Gas	Oil	Gas+Oil	Dry	
Netherlands Territory	Exploration	1			1	2
	Appraisal	3				3
	Production	5	12			9
	Sub total	9	12		1	9
Continental Shelf	Exploration	4			3	7
	Appraisal	3				3
	Production	11				11
	Sub total	18			3	21
Total		27	12		4	9
						52

8. PLATFORMS AND PIPELINES, CONTINENTAL SHELF

In 2009 three platforms and two sub sea completions have been installed on the Netherlands Continental Shelf. No platforms have been removed.

During 2009 5 new pipelines have been laid and no pipelines have been abandoned/removed.

Annexes 13 and 14 present a complete list of all platforms and pipelines. For further information, please refer to the annual report of the State Supervision of Mines (SodM)

Platforms, installed in 2009

Platform	Operator	Installed	Number of legs	Gas/Oil	Function
E17-A	GDFSuez	2009	4	Gas	Satellite
E18-A	Wintershall	2009	4	Gas	Satellite
M7-A	Cirrus	2009	1	Gas	Satellite
P9-A	Wintershall	2009	-	Gas	Sub sea
P9-B	Wintershall	2009	-	Gas	Sub sea

New pipelines, laid in 2009

Operator	From	To	Diameter (inch)	Length (km)	Carries*
GDFSuez	E17-A	NGT	12	2	g
Wintershall	E18-A	F16-A	10 + 84mm	5.4	g+c
Wintershall	P9B	P6D	8 + 70mm	16.8	g+c
Wintershall	P9A	P9B – P6D	8 + 70mm		g+c
Cirrus	M7-A	L09-FF	6 + 2	12	g+c

* g = gas, gl = glycol, ci = corrosion inhibitor

9. GAS AND OIL PRODUCTION

The tables below list the aggregated production figures for natural gas, oil and condensate for 2009. Condensate is generally considered as a by product from oil or gas production. Changes in comparison to 2008 are listed in absolute terms and in terms of percentage.

The information in the following tables is based on data supplied by the production operators. Gas volumes are reported in Standard cubic meters (Sm^3), and Normal cubic meters (Nm^3).

Total production of gas, oil and condensate in 2009 and changes compared to 2008

Gas	Production 2009		Changes compared to 2008	
	10^6 Nm^3	10^6 Sm^3	10^6 Sm^3	%
Netherlands Territory	47718.7	50339.2	-4395.0	-8.0%
Groningen accumulation	37670.5	39739.2	-3747.0	-8.6%
Territory other fields	10048.2	10600.0	-648.0	-5.8%
Continental Shelf	22175.4	23393.1	-1831.2	-7.3%
Total	69894.1	73732.3	-6226.2	-7.8%

Oil	Production 2009		Changes compared to 2008	
		10^3 Sm^3	10^3 Sm^3	%
Netherlands Territory		264.0	2.7	1,0%
Continental Shelf		1295.7	-545.4	-29,6%
Total		1559.7	-542.7	-25,8%
Average daily oil production		4273.2	(Sm^3/d)	

Condensate	Production 2009		Changes compared to 2008	
		10^3 Sm^3	10^3 Sm^3	%
Netherlands Territory		271.8	-29.2	-9.7%
Continental Shelf		251.1	-23.9	-8.7%
Total		522.8	-53.2	-9.2%

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 16 up to and including 19 present historical gas and oil production figures.

GAS PRODUCTION. Netherlands Territory in 2009 (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. These figures have been supplied by the operating companies

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Bergen II	TAQA	181.2	19.6	16.1	15.0	14.4	14.9	13.9	13.5	11.8	11.6	17.1	17.1	16.3
Botlek	NAM	686.0	66.7	59.3	67.5	67.8	66.3	29.9	53.7	50.3	56.6	50.9	58.9	58.1
Drenthe II	NAM	859.3	72.1	64.1	73.0	52.0	61.0	58.0	65.6	69.3	80.0	94.1	95.5	74.5
Drenthe III	NP	2.0												2.0
Drenthe IV	NP	5.2												5.2
Gorredijk	Vermilion	43.4	3.4	3.0	3.3	3.2	3.1	2.5	3.1	3.3	2.9	3.1	5.6	6.9
Groningen	NAM	42261.1	7228.1	6115.6	4383.1	1812.7	1127.9	1331.7	1570.1	1426.4	1778.4	3276.0	5062.5	7148.5
Hardenberg	NAM	33.7	3.4	2.6	2.6	2.9	2.8	3.0	2.4	2.8	3.0	2.8	2.7	2.7
Leeuwarden	Vermilion	109.4	10.3	10.1	10.5	9.6	9.7	6.9	8.8	8.1	9.9	8.9	8.9	7.8
Middelie	NAM	158.1	11.8	6.7	8.0	10.7	5.2	10.5	11.6	11.1	11.9	24.3	22.8	23.4
Noord-														
Friesland	NAM	3227.6	354.7	308.8	292.7	138.9	191.7	264.6	196.8	274.2	275.9	299.6	310.5	319.2
Oosterend	Vermilion	4.4	0.5	0.5	0.5	0.6	0.4	0.3	0.5	0.4	0.1	0.3	0.3	0.2
Rijswijk	NAM	1208.9	120.0	111.0	122.1	56.0	110.9	94.4	104.7	79.6	81.0	103.6	113.8	111.7
Rossum-De														
Lutte	NAM	35.6	5.3	4.6	5.1	1.2	5.2	5.2	5.0	4.0	0.0	0.0	0.0	0.0
Schoonebeek	NAM	963.9	95.2	83.4	91.5	74.9	78.9	86.6	69.1	81.0	76.8	66.1	79.8	80.7
Slootdorp	Vermilion	26.8	2.5	2.0	2.5	2.3	2.2	2.5	1.6	2.4	2.4	1.8	2.1	2.6
Steenwijk	Vermilion	82.4	8.8	7.7	8.3	7.7	7.0	4.7	5.6	7.2	5.9	6.7	6.3	6.5
Tietjerkstera														
deel	NAM	320.5	26.9	28.3	30.1	28.1	29.9	21.9	25.5	26.2	25.3	23.7	26.9	27.5
Tubbergen	NAM	19.6	2.5	2.0	2.5	0.5	2.4	2.5	2.6	1.7	1.1	1.2	0.6	0.0
Waalwijk	NP	35.1	3.5	3.2	3.6	3.5	3.4	3.0	2.3	2.7	1.9	2.6	2.6	2.8
Zuidwal	Vermilion	75.1	6.9	6.4	6.5	6.0	6.5	6.4	6.3	6.5	6.1	6.3	6.0	5.4
Total		50339.2	8042.3	6835.4	5128.4	2293.0	1729.3	1948.4	2148.8	2068.9	2430.8	3989.2	5822.4	7902.1

GAS PRODUCTION. Netherlands Territory in 2009 (in million Normal cubic meters. Nm³)

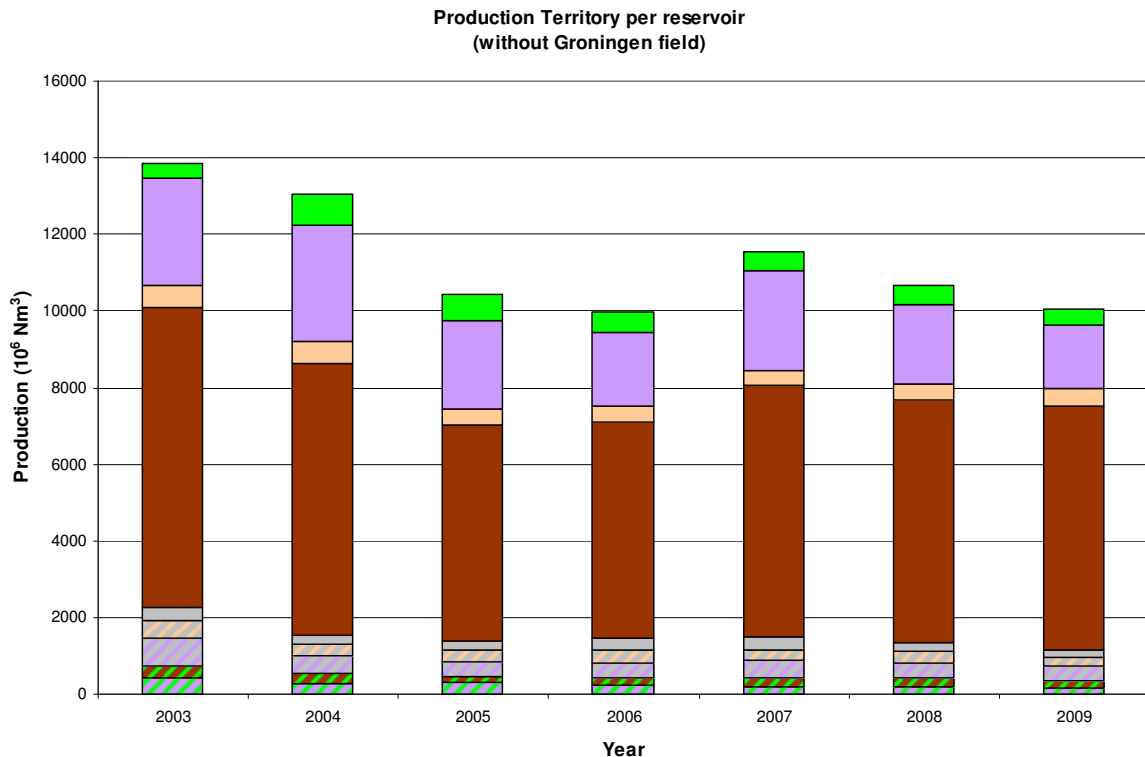
The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area. These figures have been supplied by the operating companies.

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Bergen II	TAQA	171.7	18.6	15.3	14.2	13.7	14.1	13.1	12.8	11.1	11.0	16.2	16.2	15.5
Botlek	NAM	650.3	63.2	56.2	64.0	64.3	62.9	28.3	50.9	47.7	53.6	48.3	55.8	55.1
Drenthe II	NAM	814.5	68.4	60.8	69.2	49.3	57.9	55.0	62.2	65.7	75.8	89.2	90.5	70.6
Drenthe III	NP	1.9												1.9
Drenthe IV	NP	4.9												4.9
Gorredijk	Vermilion	41.2	3.2	2.8	3.2	3.1	2.9	2.3	2.9	3.1	2.8	3.0	5.3	6.6
Groningen	NAM	40061.1	6851.9	5797.3	4154.9	1718.3	1069.2	1262.4	1488.4	1352.2	1685.8	3105.5	4799.0	6776.4
Hardenberg	NAM	31.9	3.2	2.5	2.5	2.7	2.6	2.8	2.2	2.7	2.8	2.7	2.6	2.6
Leeuwarden	Vermilion	103.7	9.8	9.5	10.0	9.1	9.2	6.5	8.3	7.6	9.4	8.5	8.4	7.4
Middelie	NAM	149.9	11.2	6.4	7.6	10.1	5.0	9.9	11.0	10.5	11.3	23.0	21.6	22.2
N-Friesland	NAM	3059.6	336.2	292.7	277.4	131.7	181.8	250.8	186.6	259.9	261.6	284.0	294.3	302.6
Oosterend	Vermilion	4.2	0.5	0.4	0.5	0.5	0.4	0.3	0.5	0.4	0.1	0.3	0.2	0.2
Rijswijk	NAM	1145.9	113.8	105.2	115.7	53.1	105.2	89.5	99.2	75.4	76.8	98.2	107.8	105.9
Rossum-De Lutte	NAM	33.7	5.0	4.3	4.9	1.2	4.9	5.0	4.7	3.8	0.0	0.0	0.0	0.0
Schoonebeek	NAM	913.7	90.3	79.1	86.7	71.0	74.8	82.1	65.5	76.8	72.8	62.6	75.6	76.5
Slootdorp	Vermilion	25.4	2.4	1.9	2.3	2.1	2.1	2.3	1.5	2.3	2.3	1.7	1.9	2.5
Steenwijk	Vermilion	78.1	8.4	7.3	7.8	7.3	6.6	4.4	5.3	6.8	5.6	6.4	6.0	6.2
Tietjerksteradeel	NAM	303.8	25.5	26.9	28.6	26.6	28.4	20.8	24.2	24.9	24.0	22.4	25.5	26.1
Tubbergen	NAM	18.6	2.4	1.9	2.4	0.5	2.3	2.4	2.4	1.6	1.0	1.2	0.5	0.0
Waalwijk	NP	33.2	3.3	3.0	3.4	3.3	3.2	2.9	2.2	2.5	1.8	2.4	2.4	2.6
Zuidwal	Vermilion	71.2	6.5	6.1	6.2	5.6	6.1	6.0	6.0	6.1	5.8	6.0	5.7	5.1
Total		47718.7	7623.7	6479.6	4861.5	2173.6	1639.3	1847.0	2037.0	1961.2	2304.3	3781.5	5519.3	7490.7

Production Territory per reservoir

The following figures show the contribution of the reservoirs to the total produced volume of gas from the Territory. This is excluding the contribution of the Groningen field (Rotliegend) as it will mask the volumes of the other fields/ reservoirs. As can be seen from the first graph the main contribution is from the Rotliegend gas fields and to a lesser extend from the Triassic. Contributions from fields with multiple reservoirs are shown in hatched colours.

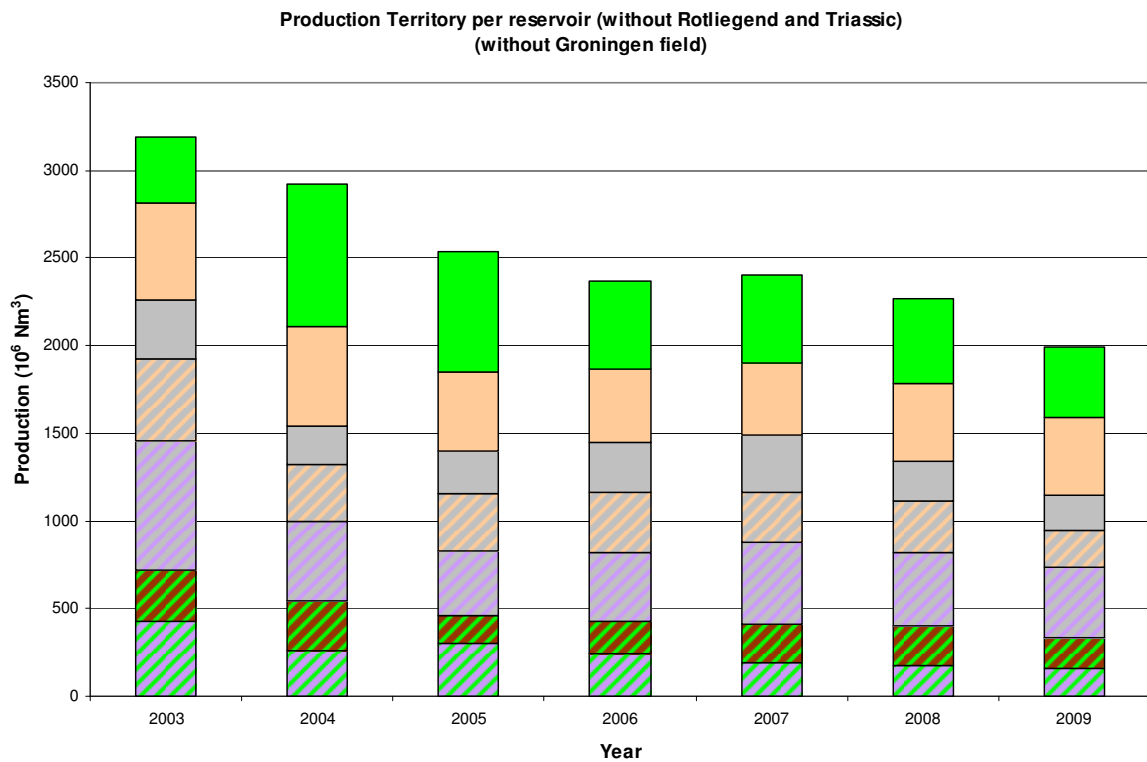
Both the Rotliegend and the Triassic contributions show a gradual decline with a marked increase in 2007. The Triassic production shows a gradual declining trend since 2004.



Legend

- | | |
|---|---|
| ■ Tertiary | ■ Carboniferous |
| ■ Cretaceous | ▨ Carb./Rotl. |
| ■ Jurassic | ▨ Rotl./Zech./Trias. |
| ■ Triassic | ▨ Rotl./Trias. |
| ■ Zechstein | ▨ Zech./Trias. |
| ■ Rotliegend | ▨ Zech./Juras. |

Smaller contributions originate from the Cretaceous, Zechstein and Carboniferous. Onshore there is no production from Jurassic reservoirs.



Legend

- | | |
|---|--|
| ■ Tertiary | ■ Carboniferous |
| ■ Cretaceous | ■ Carb./Rotl. |
| ■ Jurassic | ■ Rotl./Zech./Trias. |
| ■ Triassic | ■ Rotl./Trias. |
| ■ Zechstein | ■ Zech./Trias. |
| ■ Rotliegend | ■ Zech./Juras. |

GAS PRODUCTION. Continental Shelf in 2009 (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. These figures have been supplied by the operating companies.

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A12a	Chevron	1254.7	118.5	105.7	117.4	79.8	84.8	163.3	105.8	88.0	102.3	88.7	98.5	101.9
D12a	Wintershall	115.2	14.5	11.7	14.9	12.1	13.3	7.1	9.2	8.8	6.9	6.9	4.9	4.8
D15	GDF Suez	87.5	12.0	8.4	4.2	6.6	2.6	4.7	7.7	8.6	10.0	7.7	8.5	6.5
E17a & E17b	GDF Suez	34.9										0.0	9.6	25.3
E18a	Wintershall	295.3						4.6	48.6	39.8	63.1	51.0	44.5	43.7
F02a	PCN	47.8	3.1	2.7	3.0	2.5	2.9	2.9	3.4	4.2	6.2	5.6	5.0	6.2
F03b	GDF Suez	330.9	28.9	25.6	28.9	30.3	30.8	26.8	28.9	9.1	32.2	31.0	31.0	27.5
F15a	Total	350.6	32.4	29.0	34.3	33.0	32.1	26.1	24.6	29.7	30.5	23.6	26.8	28.6
F16	Wintershall	766.5	75.4	67.0	64.0	54.4	46.3	62.0	72.9	71.6	54.8	64.0	65.7	68.4
G14 & G17b	GDF Suez	990.3	84.3	66.7	68.2	82.3	40.8	103.8	126.4	107.9	70.9	85.3	76.6	77.1
G16a	GDF Suez	705.0	72.9	62.9	73.7	64.0	66.3	68.6	56.0	31.9	28.8	46.9	64.5	68.6
G17a	GDF Suez	271.2	28.7	24.5	26.8	23.8	25.5	23.8	23.0	21.6	12.5	20.0	20.4	20.6
G17c & G17d	GDF Suez	166.1	18.5	15.9	10.1	16.0	17.1	16.1	11.9	13.1	7.7	11.6	14.2	14.0
J03a	Total	166.2	15.1	14.2	15.6	14.8	15.4	14.6	12.0	14.3	6.5	14.5	14.4	14.8
J03b & J06	Venture/ Centrica	104.3	5.8	4.9	8.9	11.0	11.7	10.0	11.1	11.2	0.4	10.1	9.8	9.5
K01a	Total	630.8	56.6	48.6	59.9	56.3	60.1	58.7	44.5	52.2	25.0	54.8	56.6	57.6
K02b	GDF Suez	775.8	68.8	37.6	41.8	78.3	78.6	9.5	61.4	75.2	83.4	84.8	82.9	73.5
K04a	Total	1037.0	95.0	80.5	84.8	99.1	103.3	102.7	73.3	91.0	37.0	99.1	93.7	77.5
K04b & K05a	Total	1625.6	157.8	144.1	152.1	127.7	132.0	131.5	88.5	145.9	87.5	159.1	143.5	156.0
K06 & L07	Total	998.5	99.9	89.2	104.4	91.8	80.6	85.9	48.3	82.2	80.9	68.8	81.8	84.8
K07	NAM	156.6	16.2	13.1	16.5	13.4	10.6	12.4	16.0	12.1	11.9	6.5	13.6	14.3
K08 & K11	NAM	714.5	60.8	54.4	61.1	47.1	40.6	59.8	65.2	51.9	40.3	68.8	75.4	89.1
K09a & K09b	GDF Suez	308.7	30.4	25.3	28.5	27.5	28.6	28.6	18.3	23.0	23.9	24.3	25.9	24.4
K09c	GDF Suez	26.0	2.3	2.2	2.3	2.3	2.0	2.2	2.3	2.1	2.0	2.0	2.2	2.2
K12	GDF Suez	1291.8	129.2	121.4	91.7	96.0	116.8	120.8	120.1	76.6	103.8	99.2	107.6	108.5
K14	NAM	256.4	19.0	16.4	18.0	17.6	15.6	17.2	17.5	13.0	17.8	37.8	42.3	24.0
K15	NAM	1760.1	155.2	142.3	159.9	105.6	177.5	162.8	150.8	124.6	54.1	154.7	171.8	200.9
K17	NAM	180.0	18.5	16.5	16.2	15.2	16.9	14.7	15.8	13.9	11.3	14.5	13.4	13.1
L02	NAM	570.2	68.7	63.3	64.9	56.6	57.2	0.0	4.4	46.5	49.1	39.7	62.7	57.1
L04a	Total	771.3	73.3	65.9	71.5	64.8	63.4	64.0	64.5	65.5	60.6	61.2	59.3	57.2
L05a	GDF Suez	271.9	27.2	24.2	27.3	25.0	25.5	26.0	25.2	17.2	10.3	17.2	25.2	21.7
L05b	Wintershall	801.2	84.3	77.6	84.7	67.1	57.6	67.2	62.0	62.3	60.2	60.1	58.0	60.1
L06d	ATP	22.4	0.0	0.0	3.0	0.9	2.0	1.3	3.4	2.7	0.6	2.3	3.2	2.9
L08a	Wintershall	82.8	7.7	7.0	7.4	4.7	7.3	7.0	7.0	7.1	6.8	6.9	7.1	6.7
L08b	Wintershall	244.3	23.3	21.0	22.2	17.5	18.8	20.9	22.3	20.9	20.0	17.6	19.3	20.5
L09a	NAM	1147.5	107.7	110.3	118.3	102.7	91.9	80.9	93.1	81.9	64.5	63.0	100.7	132.5
L09b	NAM	378.9			31.3	28.7	30.6	39.0	53.1	36.1	46.1	46.3	40.9	26.7
L10 & L11a	GDF Suez	710.9	71.7	65.1	46.1	39.8	63.0	64.1	58.2	53.4	59.7	60.8	64.5	64.3
L11b	Chevron	13.0	2.2	1.7	2.1	1.4	1.9	1.9	1.9					
L11b	Cirrus	33.9										14.2	4.3	15.4
L12b & L15b	GDF Suez	201.4	20.2	18.2	20.6	18.0	19.1	18.7	10.5	16.7	7.8	15.2	18.4	18.0
L13	NAM	248.6	28.2	26.0	26.1	16.9	24.8	24.3	26.4	17.9	10.1	17.8	11.8	18.4

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
M07	Cirrus	61.7									10.5	17.2	18.7	15.4
P06	Wintershall	193.8	16.4	17.6	18.0	18.1	19.1	9.6	16.8	14.2	15.6	15.3	16.1	17.2
P09a & P09b	Wintershall	60.2									0.0	17.2	22.1	21.0
P09c	Chevron	3.1	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3
P09c	Wintershall	29.6									1.9	10.7	9.8	7.2
P11b	PCN	89.7	8.2	7.2	8.2	7.8	9.3	4.8	8.4	7.2	8.6	7.0	6.4	6.5
P12	Wintershall	37.7	4.3	2.8	4.3	4.0	4.3	2.5	4.3	2.9	3.3	2.4	1.3	1.2
P15a & P15b	TAQA	212.8	24.2	22.5	22.8	17.8	19.0	11.9	9.0	15.7	14.4	17.6	20.1	17.9
P15c	TAQA	10.7	1.5	1.3	1.3	0.2	1.1	0.8	0.8	0.3	0.6	0.1	1.3	1.2
P18a	TAQA	290.6	25.5	22.5	24.3	22.3	25.0	16.8	23.9	17.0	21.3	32.3	28.6	31.1
Q01	Chevron	25.0	2.2	1.0	3.1	1.1	3.0	3.0	1.4	1.2	1.2	2.7	2.3	2.9
Q04	Wintershall	1150.9	123.4	114.9	29.6	114.4	118.6	103.5	94.5	87.2	69.7	98.0	97.7	99.3
Q05c, d & e	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	280.3	31.9	26.4	30.7	23.4	27.8	18.3	19.4	21.2	24.0	20.7	19.7	16.6
Total		23393.1	2172.0	1927.3	1975.6	1862.0	1943.5	1928.3	1874.0	1819.0	1578.7	2005.2	2124.9	2182.5

GAS PRODUCTION. Continental Shelf in 2009 (in million Normal cubic meters. Nm³)

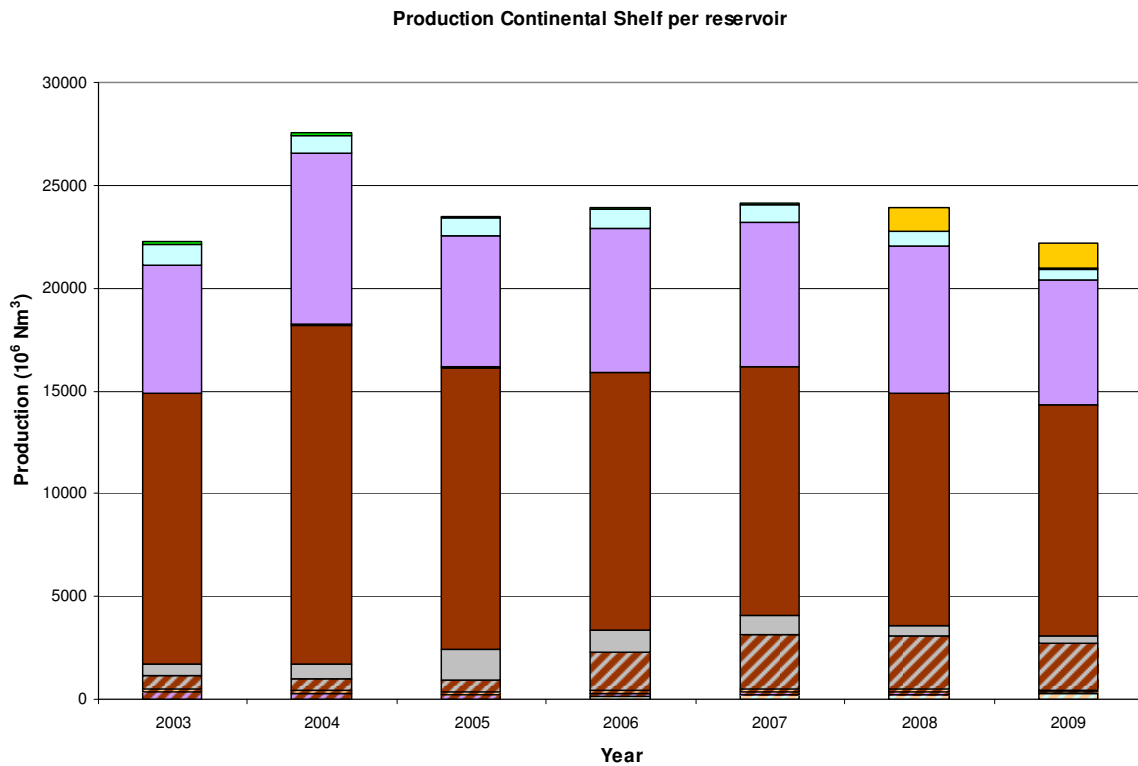
The production per licence is a summation of the production of all producing wells of which the wellhead is located within the licence area. These figures have been supplied by the operating companies.

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A12a	Chevron	1189.4	112.4	100.2	111.3	75.6	80.3	154.8	100.3	83.4	96.9	84.1	93.4	96.6
D12a	Wintershall	109.2	13.7	11.1	14.1	11.4	12.6	6.7	8.7	8.4	6.5	6.6	4.7	4.6
D15	GDF Suez	82.9	11.4	8.0	4.0	6.3	2.5	4.5	7.3	8.1	9.5	7.3	8.1	6.2
E17a & E17b	GDF Suez	33.1										0.0	9.1	24.0
E18a	Wintershall	279.9						4.4	46.1	37.7	59.8	48.4	42.1	41.4
F02a	PCN	45.3	2.9	2.6	2.9	2.4	2.8	2.8	3.2	4.0	5.9	5.3	4.7	5.9
F03b	GDF Suez	313.7	27.4	24.3	27.4	28.7	29.2	25.4	27.4	8.6	30.5	29.4	29.4	26.0
F15a	Total	332.4	30.7	27.5	32.5	31.3	30.4	24.7	23.3	28.1	28.9	22.4	25.4	27.1
F16	Wintershall	726.6	71.4	63.5	60.7	51.5	43.9	58.8	69.1	67.9	52.0	60.7	62.3	64.8
G14 & G17b	GDF Suez	938.8	80.0	63.2	64.7	78.0	38.7	98.4	119.8	102.2	67.2	80.9	72.7	73.0
G16a	GDF Suez	668.3	69.1	59.6	69.9	60.7	62.8	65.1	53.0	30.3	27.3	44.4	61.1	65.0
G17a	GDF Suez	257.1	27.2	23.2	25.4	22.6	24.2	22.6	21.8	20.4	11.8	18.9	19.3	19.5
G17c & G17d	GDF Suez	157.5	17.6	15.0	9.5	15.2	16.2	15.2	11.3	12.4	7.3	11.0	13.5	13.3
J03a	Total	157.6	14.3	13.4	14.8	14.1	14.6	13.9	11.3	13.6	6.1	13.7	13.7	14.0
J03b & J06	Venture/ Centrica	98.9	5.5	4.6	8.4	10.4	11.1	9.4	10.5	10.7	0.4	9.6	9.3	9.0
K01a	Total	598.0	53.6	46.0	56.8	53.4	56.9	55.7	42.2	49.5	23.7	52.0	53.7	54.6
K02b	GDF Suez	735.4	65.2	35.6	39.6	74.2	74.5	9.0	58.2	71.3	79.1	80.4	78.6	69.6
K04a	Total	983.0	90.0	76.3	80.4	93.9	97.9	97.4	69.5	86.3	35.1	93.9	88.9	73.5
K04b & K05a	Total	1540.9	149.6	136.6	144.2	121.0	125.1	124.6	83.9	138.3	82.9	150.8	136.0	147.9
K06 & L07	Total	946.5	94.7	84.5	99.0	87.1	76.4	81.4	45.8	77.9	76.7	65.3	77.5	80.4
K07	NAM	148.4	15.3	12.4	15.7	12.7	10.1	11.7	15.2	11.4	11.3	6.2	12.9	13.6
K08 & K11	NAM	677.3	57.6	51.6	58.0	44.7	38.5	56.7	61.8	49.2	38.2	65.2	71.5	84.5
K09a & K09b	GDF Suez	292.6	28.8	23.9	27.0	26.1	27.1	27.1	17.4	21.8	22.6	23.0	24.5	23.1
K09c	GDF Suez	24.7	2.2	2.1	2.2	2.1	1.9	2.1	2.1	2.0	1.8	1.9	2.1	2.0
K12	GDF Suez	1224.6	122.5	115.0	86.9	91.0	110.7	114.5	113.9	72.6	98.4	94.1	102.0	102.8
K14	NAM	243.0	18.0	15.5	17.1	16.7	14.8	16.3	16.6	12.4	16.9	35.9	40.1	22.8
K15	NAM	1668.5	147.1	134.9	151.5	100.1	168.2	154.4	142.9	118.1	51.3	146.6	162.8	190.4
K17	NAM	170.6	17.6	15.6	15.3	14.5	16.0	13.9	15.0	13.2	10.7	13.7	12.7	12.4
L02	NAM	540.5	65.1	60.0	61.5	53.7	54.2	0.0	4.2	44.1	46.6	37.6	59.4	54.1
L04a	Total	731.2	69.5	62.5	67.8	61.4	60.1	60.6	61.2	62.1	57.5	58.0	56.2	54.2
L05a	GDF Suez	257.8	25.8	23.0	25.8	23.7	24.2	24.6	23.9	16.4	9.7	16.3	23.9	20.6
L05b	Wintershall	759.5	79.9	73.6	80.3	63.6	54.6	63.7	58.8	59.0	57.1	56.9	55.0	57.0
L06d	ATP	21.2	0.0	0.0	2.9	0.9	1.9	1.2	3.2	2.6	0.6	2.2	3.1	2.8
L08a	Wintershall	78.5	7.3	6.6	7.0	4.5	6.9	6.7	6.6	6.7	6.4	6.5	6.8	6.3
L08b	Wintershall	231.6	22.1	19.9	21.0	16.6	17.8	19.8	21.1	19.8	18.9	16.7	18.3	19.4
L09a	NAM	1087.7	102.1	104.5	112.2	97.3	87.1	76.7	88.3	77.6	61.1	59.7	95.5	125.6
L09b	NAM	359.2			29.7	27.2	29.0	37.0	50.3	34.2	43.7	43.9	38.8	25.3
L10 & L11a	GDF Suez	673.9	68.0	61.7	43.7	37.8	59.7	60.7	55.2	50.7	56.6	57.7	61.2	61.0
L11b	Chevron	12.4	2.1	1.6	2.0	1.3	1.8	1.8	1.8					
L11b	Cirrus	32.2										13.5	4.1	14.6
L12b & L15b	GDF Suez	190.9	19.2	17.2	19.5	17.0	18.1	17.8	9.9	15.8	7.4	14.4	17.5	17.1

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
L13	NAM	235.7	26.7	24.6	24.8	16.0	23.5	23.0	25.0	17.0	9.6	16.8	11.2	17.5
M07	Cirrus	58.5									9.9	16.3	17.7	14.6
P06	Wintershall	183.7	15.5	16.7	17.0	17.1	18.1	9.1	15.9	13.5	14.8	14.5	15.2	16.3
P09a & P09b	Wintershall	57.1									0.0	16.3	21.0	19.9
P09c	Chevron	2.9	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3
P09c	Wintershall	28.1									1.8	10.2	9.3	6.8
P11b	PCN	85.0	7.8	6.8	7.7	7.4	8.8	4.6	8.0	6.9	8.1	6.6	6.1	6.2
P12	Wintershall	35.8	4.0	2.6	4.1	3.8	4.1	2.4	4.1	2.8	3.1	2.3	1.3	1.2
P15a & P15b	TAQA	201.8	22.9	21.3	21.6	16.9	18.0	11.3	8.5	14.8	13.7	16.7	19.0	17.0
P15c	TAQA	10.1	1.4	1.3	1.3	0.2	1.1	0.8	0.8	0.3	0.5	0.1	1.2	1.1
P18a	TAQA	275.5	24.2	21.3	23.1	21.1	23.7	15.9	22.7	16.1	20.2	30.6	27.1	29.5
Q01	Chevron	23.7	2.1	0.9	2.9	1.0	2.8	2.8	1.3	1.1	1.2	2.6	2.2	2.8
Q04	Wintershall	1091.0	116.9	108.9	28.1	108.5	112.4	98.1	89.6	82.7	66.1	92.9	92.6	94.2
Q05c, d & e	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	265.7	30.3	25.0	29.1	22.2	26.4	17.4	18.4	20.1	22.7	19.7	18.7	15.8
Total		22175.4	2058.9	1827.0	1872.7	1765.1	1842.3	1827.9	1776.5	1724.4	1496.6	1900.8	2014.3	2068.9

Offshore production per reservoir

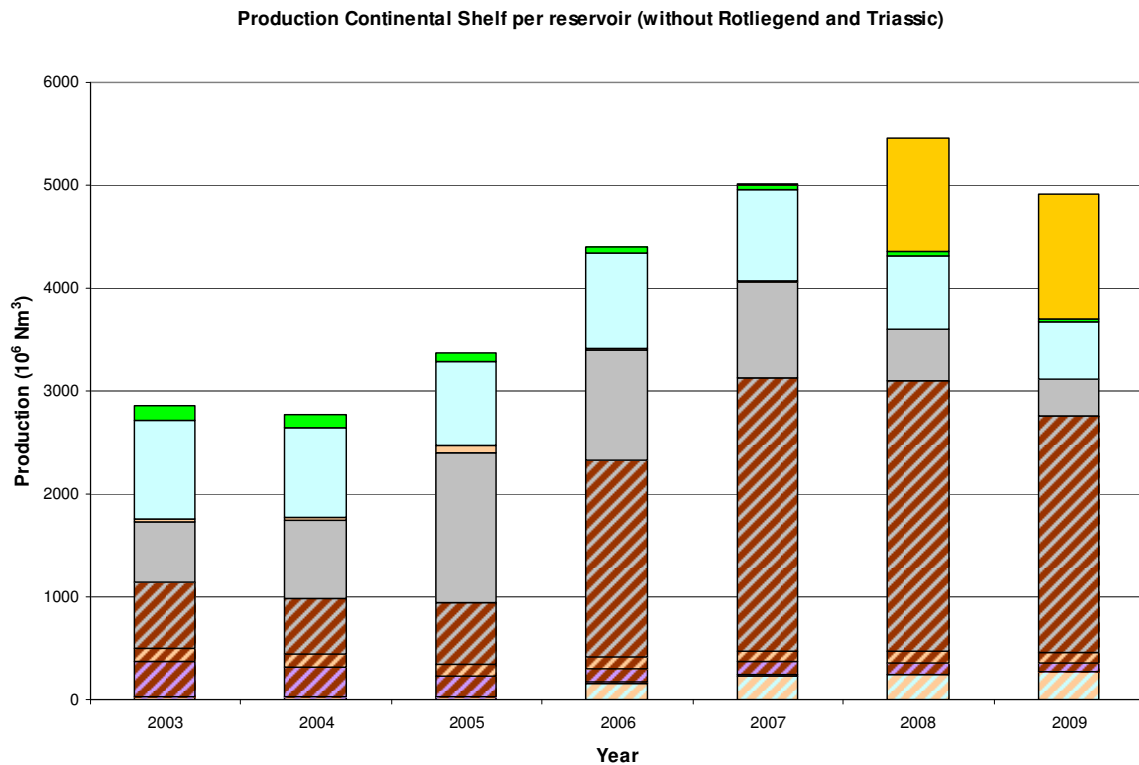
The graphs below present the contribution of the reservoirs to the offshore gas production. Here Rotliegend and Triassic reservoirs are the main contributors as well. However, the relative contribution of Triassic reservoirs is relatively much higher than for the onshore fields (Offshore: 50.7% Rotliegend vs. 27.2% Triassic, while Onshore the contribution is 63.6% vs. 16.6% in 2009).



Legend

- | | |
|---|---|
| ■ North Sea | ■ Carboniferous |
| ■ Cretaceous | ▨ Carb./Rotl. |
| ■ Jurassic | ▨ Rotl./Zech./Trias. |
| ■ Triassic | ▨ Rotl./Trias. |
| ■ Zechstein | ■ Zech./Trias. |
| ■ Rotliegend | ■ Zech./Juras. |

Since 2006 the contribution of combined Carboniferous – Rotliegend reservoirs tripled reaching a maximum in 2007. Conspicuous is the start of the production from the Tertiary gas play. Since 2008 gas production from (shallow) North Sea Group reservoirs came on stream.



Legend

- | | |
|---|--|
| ■ North Sea | ■ Carboniferous |
| ■ Cretaceous | ■ Carb./Rotl. |
| ■ Jurassic | ■ Rotl./Zech./Trias. |
| ■ Triassic | ■ Rotl./Trias. |
| ■ Zechstein | ■ Zech./Trias. |
| ■ Rotliegend | ■ Zech./Juras. |

OIL PRODUCTION in 2009 (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. These figures have been supplied by the operating companies.

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Rijswijk	NAM	264,0	22,6	22,7	25,8	23,8	26,0	24,4	23,0	25,3	20,8	15,8	14,7	19,1
F02a	PCN	365,6	35,2	29,9	34,5	28,1	32,8	31,7	33,5	23,8	31,9	25,8	23,5	34,9
F03b	GDF Suez	85,4	6,7	6,0	6,9	6,3	6,4	5,5	5,8	2,0	10,8	10,3	10,2	8,5
K18b	Wintershall	39,1	3,7	3,2	3,2	1,7	3,1	3,0	3,6	3,7	3,7	3,8	3,3	3,0
L16a	Wintershall	23,6	3,6	3,2	3,3	2,2	3,7	2,3	2,2	2,2	0,0	0,0	0,0	0,8
P09c	Chevron	36,5	3,3	2,7	3,3	3,2	3,4	3,2	3,2	2,0	2,8	3,1	3,2	3,0
P11b	PCN	607,2	66,2	57,7	63,0	57,7	58,5	31,3	51,3	48,0	47,2	45,9	40,3	40,2
Q01	Chevron	138,3	12,5	11,2	12,1	10,2	12,2	12,3	10,3	11,9	10,6	12,0	11,5	11,7
Total		1559,7	153,8	136,7	152,2	133,2	146,0	113,6	133,0	118,9	127,7	116,6	106,7	121,2

CONDENSATE* PRODUCTION in 2009 (x 1000 Standard cubic meters. Sm³)

These figures have been supplied by the operating companies.

Licence	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Gas fields Territory	271.8	27.0	24.9	26.0	16.9	20.8	18.0	17.5	18.7	21.0	24.3	31.0	25.8
Gas fields Continental Shelf	251.1	25.0	21.4	24.0	21.7	21.1	21.1	18.3	19.6	15.9	19.6	22.5	20.8
Total	522.8	52.0	46.4	50.0	38.6	41.9	39.1	35.8	38.2	36.9	44.0	53.4	46.6

* 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).

10. UNDERGROUND GAS STORAGE as at 1 January 2010

Four underground gas storages for natural gas are in operation (Alkmaar, Bergermeer, Grijpskerk en Norg). In 2009 two applications were submitted and one other licence was awarded and one was prolonged. Apart from an increasing interest in natural gas storages, a diversification concerning the stored materials becomes manifest. CO₂, nitrogen and (brackish) water appear on the scene as well. Interest comes from both policymakers as well as market parties. The storage of CO₂ is aimed at decreasing the emission of greenhouse gasses, while the stored nitrogen (in a salt cavern) will be used to maintain the specifications of the natural gas in the national gas grid of Gasunie. There are two pilot projects for the production of drinking water from brackish aquifers. The generated membrane filtrate, highly brackish water, will be stored in another aquifer at a depth of more than 100 m. According to the Mining act a storage licence is mandatory for storage at a depth of more than 100 m.

Appendix 1 contains a map showing the locations of all storage licence areas.

STORAGE LICENCES, Netherlands Territory as at 1 January 2010

Applied for

Licence	Publication	Date	Storage of	Applicant(s)
Waalwijk-Noord *	-	26-04-04	natural gas	Northern cs
Barendrecht *	-	08-12-08	CO ₂	Shell CO ₂ Storage B.V.

* Current application, formerly published in Annual Report Oil and Gas

Awarded

Licence holder	Licence	Storage of:	In force	km ²
AKZO Nobel Salt B.V.	Winschoten	nitrogen	01-04-09	28
Total				28

Prolonged

Licence holder	Licence	Storage of:	In force	km ²
TAQA Onshore B.V. cs	Bergermeer	natural gas	04-04-09	19
Total				19

STORAGE LICENCES, Continental Shelf as at 1 January 2010

Applied for

Licence	Publication	Date	Storage of	Applicant(s)
Q1-Helm	-	22-07-08	natural gas	Chevron

* Application withdrawn as of 22-9-2009

STORAGE LICENCES, company changes as at 1 January 2010

The following tables present the company changes which took place during 2009, as a result of mutations in consortiums of companies that participate in the storage licences.

Vergunning	Relinquishing company	Acquiring company	In force	Government Gazette
Zuidwending	-	N.V. Nederlandse Gasunie Gasunie Zuidwending B.V. Nuon Zuidwending B.V.	21-12-09	80

STORAGE OF NATURAL GAS in 2009

The table below shows the volume of gas that has been injected into, respectively discharged from a storage facility in the Netherlands in 2009. In the following tables these volumes have been divided into the monthly volumes per storage facility. The information was submitted by the licence holders. The tables give the volumes in in Sm³ and Nm³.

(Natural) Gas storage in 2010	<i>10⁶ Nm³</i>	<i>10⁶ Sm³</i>
Injection	2539	2679
Discharge	2584	2725

INJECTION (in million Standard cubic meters. Sm³)

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Alkmaar	Taqa	386	0	0	0	0	0	53	111	113	2	108	0	0
Bergermeer	Taqa	724	0	0	0	0	7	91	111	106	89	108	104	108
Grijpskerk	NAM	640	0	0	0	11	110	170	157	43	149	0	0	0
Norg	NAM	929	0	0	0	182	149	53	162	181	202	0	0	0
Totaal		2679	0	0	0	193	266	367	541	443	441	216	104	108

INJECTION (in million Normal cubic meters. Nm³)

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Alkmaar	Taqa	366	0	0	0	0	0	50	105	107	2	103	0	0
Bergermeer	Taqa	686	0	0	0	0	7	86	105	101	84	103	98	102
Grijpskerk	NAM	606	0	0	0	10	104	161	149	40	141	0	0	0
Norg	NAM	881	0	0	0	173	141	50	153	172	191	0	0	0
Totaal		2539	0	0	0	183	252	348	513	420	418	205	98	102

DISCHARGE (in million Standard cubic meters. Sm³)

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Alkmaar	Taqa	268	118	4	4	0	0	0	0	0	0	0	0	142
Bergermee	Taqa	18	9	8	0	0	0	0	0	0	0	0	0	0
Grijpskerk	NAM	1294	261	59	51	0	0	0	0	0	3	6	494	420
Norg	NAM	1146	494	114	82	3	0	0	0	0	0	47	2	405
Totaal		2725	882	184	136	3	0	0	0	0	3	52	496	968

DISCHARGE (in million Normal cubic meters. Nm³)

Licence	Operator	Total	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Alkmaar	Taqa	254	111	4	4	0	0	0	0	0	0	0	0	135
Bergermeer	Taqa	17	9	8	0	0	0	0	0	0	0	0	0	0
Grijpskerk	NAM	1227	248	56	48	0	0	0	0	0	3	5	468	398
Norg	NAM	1086	468	108	77	3	0	0	0	0	0	44	2	384
Totaal		2584	836	175	129	3	0	0	0	0	3	49	470	918

11. COAL

Coal mining in the Netherlands has ceased in 1974. In total almost 570 million tons of coal have been mined over the years. Conventional mining will not be profitable anymore, but recent interest to produce coal bed methane (CBM) has become evident. The feasibility of these types of projects is very uncertain. Although research by TNO has indicated that a theoretical resource of 100 billion cubic meters of gas may be present, the practically recoverable fraction is however very uncertain.

As at 1 January 2010 five production licences for coal were in force. Appendix 6 contains a map showing the locations of the licence areas.

PRODUCTION LICENCES, Netherlands Territory, as at 1 January 2010

Licence holder	Licence	In force	km ²
DSM	Beatrix	27-09-1920	130
DSM	Staatsmijn Emma	26-10-1906	73
DSM	Staatsmijn Hendrik	08-08-1910	24
DSM	Staatsmijn Maurits	12-03-1915	51
DSM	Staatsmijn Wilhelmina	08-01-1903	6
		Total	284

12. ROCK SALT

In 2009 two production licences for rock salt have been applied for. One other production licence was awarded. As at 1 January 2010 11 production licences were in force. The licence areas are (for geological reasons) all located in the North and East of the country. In those areas thick layers of Zechstein and Trias evaporites have been deposited.

Appendix 6 contains a map showing the production licence areas.

The next two tables present an overview of the licences applied for and rewarded in 2009. The third table presents the licence situation as at 1 January 2010.

Finally, for each production site the monthly rock salt production during 2009 is presented as well as the annual production since 2003. This date coincides with the start of the submission of monthly production figures according to the Mining act of 2003.

EXPLORATION LICENCES, Netherlands Territory

Applied for

Licence	Government Gazette	Date	Closing date	Applicant(s)
Zuidoost-twente	9781	03-07-09	02-10-09	Akzo

PRODUCTION LICENCES, Netherlands Territory

Applied for

Licence	Government Gazette	Date	Closing date	Applicant(s)
Barradeel-havenmond *	249	19-12-07	24-03-08	Frisia
Barradeel-oost *	249	19-12-07	24-03-08	Frisia

* Pending application, published in previous Annual Report.

Split

Licence holder	Licence	In force	km ²
- Original			
Akzo Nobel Salt B.V.	Uitbreiding Adolf van Nassau		78
- After splitting			
Akzo Nobel Salt B.V.	Uitbreiding Adolf van Nassau II	21-12-09	1
Akzo Nobel Salt B.V.	Uitbreiding Adolf van Nassau III	21-12-09	77

Company changes in Production Licences

Licence	Relinquishing Company	Acquiring Company	In force	Government Gazette
Uitbreiding Adolf van Nassau II	-	Gasunie Zuidwending B.V. N.V. Nederlandse Gasunie Nuon Zuidwending B.V.	21-12-09	81

PRODUCTION LICENCES, Netherlands Territory, as at 1 January 2010

Licence holder	Licence	In force	Date of expiry	km ²
Akzo Nobel Salt B.V.	Adolf van Nassau	30-08-1954		28
Akzo Nobel Salt B.V.	Buurse	18-06-1918		30
Akzo Nobel Salt B.V.	Twenthe-Rijn	20-10-1933		48
Akzo Nobel Salt B.V.	Twenthe-Rijn Helmerzijde	29-10-2008	09-12-2048	1
Akzo Nobel Salt B.V. N.V. Nederlandse Gasunie Gasunie Zuidwending B.V. Nuon Zuidwending B.V.	Uitbreiding Adolf Van Nassau II	21-12-2009		1
Akzo Nobel Salt B.V.	Uitbreiding Adolf van Nassau III	21-12-2009		77
Akzo Nobel Salt B.V.	Uitbreiding Twenthe-Rijn	01-12-1994		9
Akzo Nobel Salt B.V.	Weerselo	13-03-1967		80
Frisia Zout B.V.	Barradeel	22-08-1998	22-08-2054	3
Frisia Zout B.V.	Barradeel II	12-06-2004	26-04-2062	17
Nedmag Industries B.V.	Veendam	01-08-1980		171
Total				465

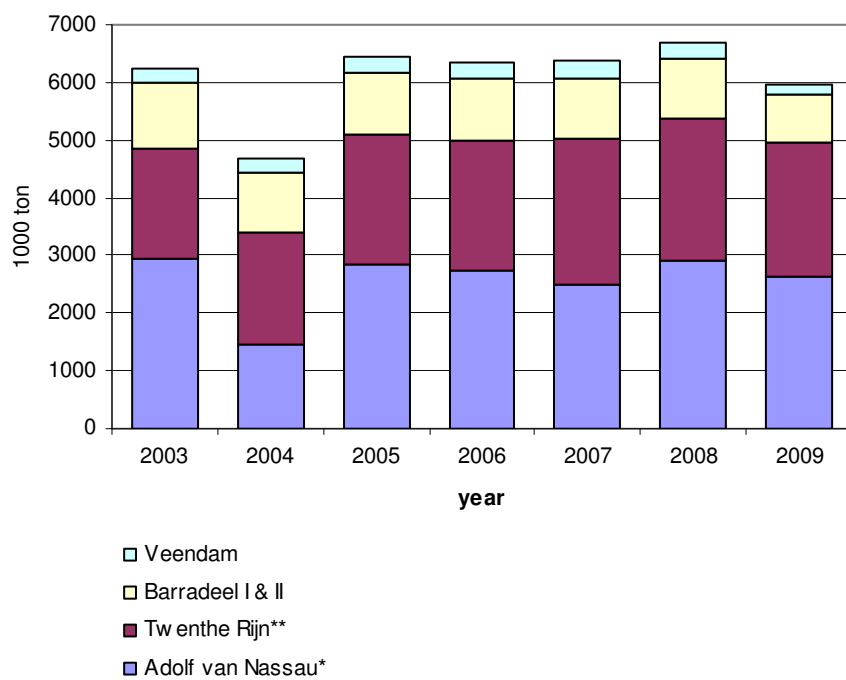
ROCK SALT PRODUCTION, 2009 (in 1000 ton)

Production	Operator	total	Jan	Feb.	Mrch	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Adolf van Nassau*	AKZO	2622	230	214	200	187	237	222	234	225	207	224	216	224
Barradeel	Frisia	227	26	32	18	16	23	35	6	31	27	4	4	6
Barradeel II	Frisia	628	56	31	22	40	41	54	53	66	60	69	62	72
Twenthe-Rijn	AKZO	2317	182	189	203	145	199	212	195	189	146	217	201	240
Veendam	Nedmag	173	21	18	11	8	10	10	10	11	18	14	20	21
Total		5967	515	484	454	397	511	532	498	522	459	528	504	563

* Including 'Uitbreiding Adolf van Nassau'

** Including 'Uitbreiding Twenthe – Rijn'

Rock salt production 2003 - 2009



* Including *Uitbreiding Adolf van Nassau*

** Including *Uitbreiding Twenthe - Rijn*

Official name of mining companies

Frisia Zout B.V.

Akzo Nobel Salt B.V.

Nedmag Industries Mining & Manufacturing B.V

13. GEOTHERMAL ENERGY

In 2009 interest in exploration for and production of geothermal energy has strongly increased in the Netherlands. The number of licence applications for geothermal energy was significantly higher than for any other activity in the deep subsurface. Exploitation of geothermal energy for glasshouse horticulture and for district heating are the main applications of this type of energy

Geothermal energy may potentially replace 10% of the energy usage that is now generated by hydrocarbons. The Ministry of Economic Affairs (MEA) stimulates the use of geothermal energy in several policy frameworks (named: 'Schoon en Zuinig' and 'Warmte op stoom'). Important obstacles are the economical and geological risks that come with drilling a well for geothermal energy. By means of the so called 'Marktintroductie energie-innovaties regulation (MEI)' from the Ministry of Agriculture, Nature and Food Quality and the 'Unieke Kansen' Program of the MEA the Guarantee regulation Geothermal Energy was opened for application as of November 3rd 2009 (State Gazette, 31st October 2009). No applications for this regulation were received in 2009.

EXPLORATION LICENCES, Netherlands Territory

Applied for

Licence	Government Gazette	Date	Closing date	Applicant(s)
Vierpolders *	182	19-09-08	19-12-08	Firma Grootscholten Vierpolders
Berkel en Rodenrijs 2 *	240	10-12-08	11-03-09	Firma T&R Bekkers
Californie 2 *	243	15-12-08	16-03-09	Grondexploitatie-mij. Californie B.V.
Est	4	08-01-09	09-04-09	Berg Energie B.V.
Westland	36	23-02-09	25-05-09	Gemeente Westland
Pijnacker-Nootdorp	60	27-03-09	26-06-09	Gemeente Pijnacker-Nootdorp
Deurne	80	28-04-09	28-07-09	Coöperatieve Vereniging Tuinbouwvestiging Deurne
Zevenhuizen	95	27-05-09	26-08-09	Fa. A & W Tas
Oostvoorne	108	16-06-09	15-09-09	P.N.A. van Dijk Beheer B.V.
Zevenhuizen- Moerkapelle	111	19-06-09	18-09-09	D.J.Bac en G.A. Bac
Waddinxveen 2	111	19-06-09	18-09-09	Wayland Developments B.V.
Berlikum	10361	10-07-09	09-10-09	Gietwater Berlikum B.V.
Asten	10367	10-07-09	09-10-09	Van Gog Asten B.V.
Pijnacker-Nootdorp 3	10740	17-07-09	16-10-09	Kwekerij Sandeland V.O.F cs
Helmond	12462	20-08-09	19-11-09	Landbouwbedrijf Van Gog B.V.
Terschelling	12459	20-08-09	19-11-09	Schylger Energie Maatschappij
Horst	12498	21-08-09	20-11-09	De Klotterkuil B.V.
Andijk	12524	25-08-09	24-11-09	Grootslag Holding B.V.
Maasland 2	15539	16-10-09	15-01-10	
Haarlemmermeer	17247	13-11-09	12-02-10	
Texel	19236	15-12-09	16-03-10	

* Pending application, published in previous annual report.

Awarded

Licence holder	Licence	In force	km ²
Gemeente Den Haag	Den Haag	03-04-09	36
P.N.A. van Dijk Beheer B.V.	Brielle	10-04-09	7
Van Schie Vastgoed B.V.	Ens	15-04-09	7
J.W.M. Scheffers cs	Honselersdijk	20-06-09	5
Gedeputeerde Staten van Overijssel	Koekoekspolder	20-06-09	33
Plantenkwekerij L. Ammerlaan B.V.	Bleiswijk 2	23-06-09	5
A+G van den Bosch B.V.	Bleiswijk 3	23-06-09	2
A.P.M. Ammerlaan cs	Bleiswijk 4	23-06-09	7
De Bleiswijkse Zoom 1 B.V.	Bleiswijk 5	23-06-09	5
R.H.M. Scheffers	Monster	24-06-09	4
Jamuflor B.V.	De Kwakel	26-06-09	18
D.T.M. Grootscholten	Naaldwijk	26-06-09	4
Houdstermaatschappij Oosterom B.V.	Waddinxveen	16-07-09	14
S.S. Beheer B.V.	Middenmeer	16-07-09	24
AC Hartman Beheer B.V. cs	Sexbierum	17-07-09	11
G. Kahlman	Delft	28-08-09	61
Gemeente Brielle cs	Brielle 2 *	13-10-09	29
Tuinbouwbedrijf Wijnen B.V.	Californie I	13-10-09	7
Tuinbouwontwikkelingsmij B.V.	Dinteloord *	13-10-09	21
De Ruiter Seeds Production NL B.V.	Lansingerland 2 *	13-10-09	6
Wayland Nova B.V.	Maasbree *	13-10-09	22
W.P.K. Beheer B.V.	Made *	13-10-09	33
Van Kester-Grootscholten Beheer B.V.	Middenmeer 2 *	13-10-09	15
A.P.M. Zuidgeest cs	Honselersdijk 2 *	14-10-09	4
N.W. Duijvestijn cs	Honselersdijk 3 *	14-10-09	7
Coop. Bloemenveiling FloraHolland U.A.	Naaldwijk 2 *	14-10-09	4
A.P.M. Zuidgeest cs	Maasdijk *	21-10-09	6
Themato Productie B.V.	Berkel en Rodenrijs I	19-11-09	6
Ce-Ren Beheer B.V.	Heemskerk *	09-12-09	11
Harting-Vollebregt Beheer B.V.	De Lier	09-12-09	23
Harting-Vollebregt Beheer B.V.	De Lier 3 *	09-12-09	11
Kwekerij de Westhoek B.V. cs	Maasland *	18-12-09	9
Total			457

* Also applied for in 2009

Split

Licence holder	Licence	In force	km ²
- Original			
G. Kahlman	Delft		61
- After splitting			
G. Kahlman	Delft II	28-12-09	57
G. Kahlman	Pijnacker-Nootdorp 4	28-12-09	4

PRODUCTION LICENCES, Netherlands Territory

Awarded

Vergunninghouder	Vergunning	In werking	km ²
Gemeente Heerlen	Heerlen	13-10-09	41
Total			41

GEOHERMAL LICENCES, company changes in 2009 as at 1 January 2010

Company changes in Exploration Licences

Licence	Relinquishing company	Acquiring company	In force	Government Gazette
Pijnacker-Nootdorp 4	G. Kahlman	Ammerlaan Real Estate B.V.	28-12-09	73

ANNEXES

NATURAL GAS ACCUMULATIONS BY STATUS as at 1 January 2010

NATURAL GAS ACCUMULATIONS

I. DEVELOPED ACCUMULATIONS				
a) Producing				
Accumulation*	Company	Licence name**	Licence type***	Gas/ Oil
Ameland Oost	NAM	Noord-Friesland	pl	G
Ameland Westgat	NAM	Noord-Friesland	pl	G
Anjum	NAM	Noord-Friesland	pl	G
Annerveen	NAM	Groningen	pl	G&O
Assen	NAM	Drenthe II	pl	G
Barendrecht	NAM	Rijswijk	pl	G&O
Barendrecht-Ziedewij	NAM	Rijswijk	pl	G
Bedum	NAM	Groningen	pl	G
Blija-Ferwerderadeel	NAM	Noord-Friesland	pl	G
Blija-Zuidoost	NAM	Noord-Friesland	pl	G
Blijham	NAM	Groningen	pl	G
Boerakker	NAM	Groningen	pl	G
Botlek	NAM	Botlek	pl	G
Bozum	Vermilion	Oosterend	pl	G
Coevorden	NAM	Schoonebeek	pl	G
Collendoorn	NAM	Hardenberg	pl	G
Collendoornerveen	NAM	Schoonebeek	pl	G
Dalen	NAM	Drenthe II	pl	G
De Blesse	Vermilion	Steenwijk	pl	G
De Wijk	NAM	Schoonebeek	pl	G
Den Velde	NAM	Hardenberg	pl	G
Eleveld	NAM	Drenthe II	pl	G
Emmen	NAM	Drenthe II	pl	G
Emmen-Nieuw	NAM	Drenthe II	pl	G
Amsterdam				
Ezumazijl	NAM	Noord-Friesland	pl	G
Feerwerd	NAM	Groningen	pl	G
Gaag	NAM	Rijswijk	pl	G
Geestvaartpolder	NAM	Rijswijk	pl	G
Groet-Oost	TAQA	Middelie	pl	G
Groningen	NAM	Groningen	pl	G
Grootegast	NAM	Groningen	pl	G
Grouw	Vermilion	Leeuwarden	pl	G
Hardenberg	NAM	Schoonebeek	pl	G
Hardenberg-Oost	NAM	Hardenberg	pl	G
Hekelingen	NAM	Botlek	pl	G
Kiel-Windeweer	NAM	Groningen	pl	G
Kollum	NAM	Tietjerksteradeel	pl	G
Kollumerland	NAM	Tietjerksteradeel	pl	G

Kollum-Noord	NAM	Noord-Friesland	pl	G
Kommerzijl	NAM	Groningen	pl	G
Lauwersoog	NAM	Noord-Friesland	pl	G
Leens	NAM	Groningen	pl	G
Leeuwarden en Nijega	Vermilion	Leeuwarden	pl	G
Loon op Zand	Northern Petroleum	Waalwijk	pl	G
Loon op Zand-Zuid	Northern Petroleum	Waalwijk	pl	G
Maasdijk	NAM	Rijswijk	pl	G
Middelburen	Vermilion	Leeuwarden	pl	G
Middelie	NAM	Middelie	pl	G
Middenmeer	Vermilion	Slootdorp	pl	G
Moddergat	NAM	Noord-Friesland	pl	G
Molenpolder	NAM	Groningen	pl	G
Monster	NAM	Rijswijk	pl	G
Munnekezijl	NAM	Groningen	pl	G
Nes	NAM	Noord-Friesland	pl	G
Noorderdam	NAM	Rijswijk	pl	G
Noordwolde	Vermilion	Gorredijk	pl	G
Oldelamer	Vermilion	Gorredijk	pl	G
Oosterhesselen	NAM	Drenthe II	pl	G
Opeinde	Vermilion	Leeuwarden	pl	G
Opeinde-Zuid	Vermilion	Leeuwarden	pl	G
Opende-Oost	NAM	Groningen	pl	G
Pasop	NAM	Groningen	pl	G
Pernis	NAM	Rijswijk	pl	G&O
Pernis-West	NAM	Rijswijk	pl	G&O
Rauwerd	Vermilion	Oosterend	pl	G
Ried	Vermilion	Leeuwarden	pl	G
Saaksum	NAM	Groningen	pl	G
Schoonebeek Gas	NAM	Schoonebeek	pl	G
Sebaldeburen	NAM	Groningen	pl	G
's-Gravenzande	NAM	Rijswijk	pl	G
Slootdorp	Vermilion	Slootdorp	pl	G
Spijkenisse-Oost	NAM	Botlek	pl	G&O
Spijkenisse-West	NAM	Beijerland	pl	G&O
Sprang	Northern Petroleum	Waalwijk	pl	G
Suawoude	NAM	Tietjerksteradeel	pl	G
Surhuisterveen	NAM	Groningen	pl	G
Tietjerksteradeel	NAM	Tietjerksteradeel	pl	G
Tubbergen-Mander	NAM	Tubbergen	pl	G
Ureterp	NAM	Tietjerksteradeel	pl	G
Vierhuizen	NAM	Noord-Friesland	pl	G
Vries	NAM	Drenthe II	pl	G
Waalwijk-Noord	Northern Petroleum	Waalwijk	pl	G
Wanneperveen	NAM	Schoonebeek	pl	G
Warffum	NAM	Groningen	pl	G
Warga	Vermilion	Leeuwarden	pl	G
Wartena	Vermilion	Leeuwarden	pl	G
Westbeemster	NAM	Middelie	pl	G

Witterdiep	NAM	Drenthe II	pl	G
Zevenhuizen	NAM	Groningen	pl	G
Zuidwal	Vermilion	Zuidwal	pl	G
Zuidwending-Oost	NAM	Groningen	pl	G
A12-FA	Chevron	A12a	pl	G
D12-A	Wintershall	D12a	pl	G
D15-A	Gaz de France	D15	pl	G
D15-A-104	Gaz de France	D15	pl	G
F15a-A	Total	F15a	pl	G
F15a-B	Total	F15a	pl	G
F16-E	Wintershall	E16	pl	G
G14-A/B	Gaz de France	G14	pl	G
G14-C	Gaz de France	G14	pl	G
G16a-A	Gaz de France	G16a	pl	G
G16a-B	Gaz de France	G16a	pl	G
G17a-S1	Gaz de France	G17a	pl	G
G17cd-A	Gaz de France	G17d	pl	G
Halfweg	Chevron	Q01	pl	G
J03-C Unit	Total	J03a	pl	G
K01-A Unit	Total	J03a	pl	G
K02b-A	Gaz de France	K03a	pl	G
K04-A	Total	K05a	pl	G
K04a-B	Total	K04a	pl	G
K04a-D	Total	K04a	pl	G
K04-E	Total	K04b	pl	G
K04-N	Total	K04b	pl	G
K05a-A	Total	K04b	pl	G
K05a-B	Total	K05a	pl	G
K05a-D	Total	K05a	pl	G
K05a-En	Total	K05a	pl	G
K05a-Es	Total	K05a	pl	G
K05-C Unit	Total	K05a	pl	G
K05-F	Total	K05a	pl	G
K06-A	Total	K06	pl	G
K06-C	Total	K06	pl	G
K06-D	Total	K06	pl	G
K06-DN	Total	K06	pl	G
K06-G	Total	K03d	pl	G
K07-FA	NAM	K07	pl	G
K07-FB	NAM	J09	pl	G
K07-FC	NAM	K07	pl	G
K07-FD	NAM	K07	pl	G
K08-FA	NAM	K11	pl	G
K09ab-A	Gaz de France	K09b	pl	G
K09ab-B	Gaz de France	K09a	pl	G
K09c-A	Gaz de France	K09c	pl	G
K12-B	Gaz de France	K12	pl	G
K12-B-09	Gaz de France	K12	pl	G

K12-C	Gaz de France	K12	pl	G
K12-D	Gaz de France	K12	pl	G
K12-G	Gaz de France	K12	pl	G
K12-K	Gaz de France	K13	pl	G
K12-S2	Gaz de France	K12	pl	G
K12-S3	Gaz de France	K12	pl	G
K14-FA	NAM	K14	pl	G
K14-FB	NAM	K14	pl	G
K15-FA	NAM	K15	pl	G
K15-FB	NAM	K15	pl	G
K15-FC	NAM	K15	pl	G
K15-FE	NAM	K15	pl	G
K15-FG	NAM	K15	pl	G
K15-FJ	NAM	K15	pl	G
K15-FK	NAM	K15	pl	G
K15-FL	NAM	K15	pl	G
K15-FM	NAM	K15	pl	G
K15-FO	NAM	K15	pl	G
K17-FA	NAM	K17	pl	G
L01-A	Total	L01a	pl	G
L02-FB	NAM	L02	pl	G
L04-A	Total	L04a	pl	G
L04-B	Total	L04a	pl	G
L04-F	Total	L04a	pl	G
L04-G	Total	L04a	pl	G
L04-I	Total	L04a	pl	G
L05a-A	Gaz de France	L05	pl	G&O
L05-B	Wintershall	L05b	pl	G
L05-C	Wintershall	L05b	pl	G
L06d	ATP	L06d	pl	G
L07-B	Total	L07	pl	G
L07-C	Total	L07	pl	G
L07-G	Total	L07	pl	G
L07-H	Total	L07	pl	G
L07-H South-East	Total	L07	pl	G
L07-N	Total	L07	pl	G
L08-A	Wintershall	L08a	pl	G
L08-A-West	Wintershall	L08b	pl	G
L08-G	Wintershall	L08a	pl	G
L08-H	Wintershall	L08a	pl	G
L08-P	Wintershall	L08b	pl	G
L09-FC	NAM	L09b	pl	G
L09-FD	NAM	L09a	pl	G
L09-FF	NAM	L09a	pl	G
L09-FG	NAM	L09a	pl	G
L09-FH	NAM	L09a	pl	G
L09-FI	NAM	L09a	pl	G
L10 Central Dev. Area	Gaz de France	L10	pl	G
L10-G	Gaz de France	L10	pl	G

L10-M	Gaz de France	L10	pl	G
L12-FC	Gaz de France	L12b	pl	G
L13-FC	NAM	L13	pl	G
L13-FD	NAM	L13	pl	G
L13-FE	NAM	L13	pl	G
L13-FG	NAM	L13	pl	G
L15-FA	Gaz de France	L15b	pl	G
Markham	Venture	J03b	pl	G
P06-D	Wintershall	P06	pl	G
P06-Main	Wintershall	P06	pl	G
P12-SW	Wintershall	P12	pl	G
P15-09	TAQA	P15a	pl	G&O
P15-11	TAQA	P15a	pl	G
P15-13	TAQA	P15a	pl	G
P15-14	TAQA	P15c	pl	G
P15-15	TAQA	P15a	pl	G
P15-16	TAQA	P15a	pl	G
P15-17	TAQA	P15a	pl	G
P18-2	TAQA	P18a	pl	G
P18-4	TAQA	P18a	pl	G
P18-6	TAQA	P18a	pl	G
Q01-B	Wintershall	Q01	pl	G
Q04-A	Wintershall	Q04	pl	G
Q04-B	Wintershall	Q04	pl	G
Q16-FA	NAM	Q16a	pl	G
b) Underground Gas Storage				
Alkmaar PGI	TAQA	Bergen	pl/sl	G
Bergermeer	TAQA	Bergermeer	pl/sl	G
Grijpskerk	NAM	Groningen	pl/sl	G
Norg	NAM	Drenthe	pl/sl	G

II. UNDEVELOPED ACCUMULATIONS

a) start of production expected between 2010 – 2014

Accumulation*	Company	Licence name**	Licence type***	Gas/ Oil
Brakel	Northern Petroleum	Andel III	pl	O&G
Donkerbroek	SES	Donkerbroek	pl	G
Eesveen	Vermilion	Steenwijk	pl	G
Harkema	NAM	Groningen	pl	G
Oosterwolde	SES	Oosterwolde	pl	G
Rodewolt	NAM	Groningen	pl	G
Wijk en Aalburg	Northern Petroleum	Andel III	pl	G
			pl	

A15-A	Venture	A15a	pla	G
A18-FA	Chevron	A18a	pl	G
B10-FA	Chevron	A12b	pla	G
B13-FA	Chevron	B13a	pl	G
B16-FA	Chevron	B16a	pl	G
B17-A	Venture	B17b	pla	G
D18-FA	Gaz de France	D18	pla	G
E13 Epidoot	Tullow	E13a	pl	O&G
F03-FA	Venture	F03a	pl	G
F16-P	Wintershall	F16	pl	G
K05-C North	Total	K05b	pl	G
K05-U	Total	K05b	pl	G
K18-Golf	Wintershall	K18b	pl	G
L12a-B	NAM	L12a	pl	G
L13-FA	NAM	L13	pl	G
L13-FI	NAM	L13	pl	G
L13-FJ	NAM	L13	pl	G
M01-A	Cirrus Energy	M01a	pl	G
N07-FA	NAM	N07a	pl	G
P10b Van Brakel	Petro Canada	P10b	pl	G
P11b Van Ghent	Petro Canada	P11b	pl	G
P11b Van Nes	Petro Canada	P11b	pl	G
Q07-FA	SES	Q10a	el	G
b) Others				
Beerta	NAM	Groningen	pl	G
Boskoop	NAM	Rijswijk	pl	G
Buma	NAM	Drenthe II	pl	G
Burum	NAM	Tietjerksteradeel	pl	G
Deurningen	NAM	Twenthe	pl	G
Egmond-Binnen	NAM	Middelie	pl	G
Exloo	NAM	Drenthe II	pl	G
Haakswold	NAM	Schoonebeek	pl	G
Heiloo	TAQA	Bergen II	pl	G
Kerkwijk	NAM	Andel III	pl	G
Kijkduin-Zee	NAM	Rijswijk	pl	G&O
Langebrug	NAM	Groningen	pl	G
Maasgeul	NAM	Botlek	pl	G
Midlaren	NAM	Groningen	pl	G&O
Molenaarsgraaf	NAM	Andel III	pl	G
Nieuweschans	NAM	Groningen	pl	G
Oppenhuizen	NAM		open	G
Schiermonnikoog-Wad	NAM		open	G
Sonnega Weststellingwerf	Vermilion	Steenwijk	open	G
Ternaard	NAM	Noord Friesland	pl	G
Terschelling-West			open	G
Vlagtwedde	NAM	Groningen	pl	G
Wassenaar-Diep	NAM	Rijswijk	pl	G

Werkendam	NAM	Rijswijk	pl	G&O
Witten	NAM	Drenthe II	pl	G
E12 Lelie		E12	open	G
E12 Tulp East		E12	open	G
K04a-Z	Total	K04a	pl	G
K08-FD	NAM	K08	pl	G
K08-FF	NAM	K08	pl	G
K14-FC	NAM	K14	pl	G
K15-FF	NAM	K15	pl	G
K15-FH	NAM	K15	pl	G
K15-FI	NAM	K15	pl	G
K16-5		K16	open	G
K17-FB	NAM	K17	pl	G
K18-FB	Wintershall	K18b	pl	G
L04-D	Total	L04a	pl	G
L05b-A	Wintershall	L05b	pl	G
L07-D	Total	L07	open-a	G
L07-F	Total	L07	open	G
L10-19	Gaz de France	L10	pl	G
L10-6	Gaz de France	L10	pl	G
L11-1	Gaz de France	L11a	pl	G
L11-7	Gaz de France	L11a	pl	G
L12-FA	NAM	L12a	pl	G
L12-FD	NAM	L12d	pl	G
L13-FK	NAM	L13	pl	G
L14-FB			open	G
L16-Alpha	Wintershall	L16a	pl	G
L16-Bravo	Wintershall	L16a	pl	G
L16-FA	Wintershall	L16a	pl	G
M09-FB	NAM	Noord-Friesland	pl	G
M11-FA	Ascent	M11	el	G
P01-FA	Elko Energy	P02	el	G
P01-FB	Elko Energy	P01	el	G
P02-1	Elko Energy	P02	el	G
P02-5	Elko Energy	P02	el	G
P02-E	Elko Energy	P02	el	G
P06 Northwest	Wintershall	P06	pl	G
Q01-D	Wintershall	Q01	pl	G
Q13-FC	Delta Hydrocabons	Q13b	el	G

III. PRODUCTION CEASED				
Accumulation *	Company	Licence name**	Type of licence ***	Gas/Oil
Akkrum 1	Chevron USA	Akkrum	open-a	G
Akkrum 11	Chevron USA	Akkrum	open-a	G
Akkrum 13	Chevron USA	Akkrum	open-a	G
Akkrum 3	Chevron USA	Akkrum	open-a	G
Akkrum 9	Chevron USA	Akkrum	open-a	G
Ameland Noord	NAM	Noord-Friesland	pl	G
Appelscha	NAM	Drenthe II	pl	G
Boekel	TAQA	Bergen II	pl	G
Castricum-Zee	Wintershall	Middelie	pl	G
De Lutte	NAM	Rossum-de Lutte	pl	G
Een	NAM	Drenthe II	pl	G
Emshoern	NAM	Groningen	pl	G
Engwierum	NAM	Noord-Friesland	pl	G
Harlingen Upper	Vermilion	Leeuwarden	pl	G
Cretaceous				
Hoogenweg	NAM	Hardenberg	pl	G
Leeuwarden 101 Rot- liegend	Vermilion	Leeuwarden	pl	G
Leidschendam	NAM	Rijswijk	pl	G
Nijensleek	Vermilion	Drenthe	pl	G
Norg-Zuid	NAM	Drenthe II	pl	G
Oud-Beijerland Zuid	NAM	Botlek	pl	G
Roden	NAM	Drenthe II	pl	G
Roswinkel	NAM	Drenthe II	pl	G
Sleen	NAM	Drenthe II	pl	G
Starnmeer	TAQA	Bergen II	pl	G
Weststellingwerf	Vermilion	Gorredijk	pl	G
Wimmenum-Egmond	NAM	Middelie	pl	G
Zuid-Schermer	TAQA	Bergen II	pl	G
K06-T	Total	K06	pl	G
K08-FC	NAM	K08	pl	G
K10-B	Wintershall	K10a	pl	G
K10-C	Wintershall	K10a	pl	G
K10-V	Wintershall	K10b	pl	G
K11-FA	NAM	K11	pl	G
K11-FB	NAM	K11	pl	G
K11-FC	NAM	K11	pl	G
K12-A	Gaz de France	K12	pl	G
K12-E	Gaz de France	K12	pl	G
K12-S1	Gaz de France	K12	pl	G
K13-CF	NAM	K13	open	G
K13-DE	NAM	K13	open	G
K13-FA	NAM	K13	open	G

K13-FB	NAM	K13	open	G
L07-A	Total	L07	pl	G
L10-K	Gaz de France	L10	pl	G
L10-S1	Gaz de France	L10	pl	G
L10-S3	Gaz de France	L10	pl	G
L11a-A	Gaz de France	L11a	pl	G
L11-Lark	Gaz de France	L11a	pl	G
L13-FB	NAM	L13	pl	G
L13-FH	NAM	L13	pl	G
L14-S	Transcanada Int.	L14	open	G
P02-NE	Tullow	P02	el	G
P02-SE	Tullow	P02	el	G
P12-C	Wintershall	P12	pl	G
P14-A	Wintershall	P14a	pl	G
P15-10	TAQA	P15c	pl	G
Q05-A	Wintershall	Q05c	pl	G
Q08-B	Wintershall	Q08	pl	G

* Name of the accumulation is according to 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).

*** el = exploration licence, pla = production licence application, pl = production licence ; open a = open area licence applied, sl = storage licence.

OIL ACCUMULATIONS

I. DEVELOPED ACCUMULATIONS				
a) Producing Accumulation*	Company	Licence name**	Licence type***	Gas/Oil
Berkel	NAM	Rijswijk	pl	O&G
Rotterdam	NAM	Rijswijk	pl	O&G
F02a Hanze	Petro-Canada	F02a	pl	O
Haven	Chevron	Q01	pl	O
Helder	Chevron	Q01	pl	O
Helm	Chevron	Q01	pl	O
Hoorn	Chevron	Q01	pl	O
Horizon	Chevron	P09c	pl	O
Kotter	Wintershall	K18b	pl	O
Logger	Wintershall	L16a	pl	O
P11b De Ruyter	Petro-Canada	P11b	pl	O&G
II. UNDEVELOPED ACCUMULATIONS				
a) start of production expected between 2009 – 2014				
Accumulation*	Company	Licence name**	Licence type***	Gas/Oil
Ottoland	Northern Petroleum	Andel III	opv	O
Oud-Beijerland Noord	NAM	Botlek	pl	O&G
Papekop	Northern Petroleum	Papekop	pl	O&G
Schoonebeek****	NAM	Schoonebeek	pl	O&G
P08-A	Grove Energy	P08a	pl	O
Q13-Amstel (FA)	Island Oil & Gas	Q13a	pl	O
b) Others				
Alblasserdam	NAM	Rijswijk	pl	O
Gieterveen	NAM	Drenthe	pl	O
Lekkerkerk/blg	NAM	Rijswijk	pl	O
Noordwijk	NAM	Rijswijk	pl	O&G
Stadskanaal	NAM	Groningen	pl	O&G
Wassenaar-Zee	NAM	Rijswijk	pl	O
Woubrugge	NAM	Rijswijk	pl	O
Zweelo	NAM	Drenthe	pl	O
B18-FA	NAM	B18a	pl	O
F03-FC	NAM	F03	pl	O
F14-A	Grove	F14	el	O
F17-FA	Wintershall	F17a	el	O

F17-FB	Wintershall	F17a	el	O
F18-FA	Grove	F18	el	O
K10-B-OIL	Wintershall	K10	pl	O
L01-FB	Grove	L01b	el	O
P12-3	Wintershall	P12	pl	O
Q01 Northwest	Chevron	Q01	pl	O
Q13-FB		Q16b	open	O
III. PRODUCTION CEASED				
Accumulation*	Company	Licence name**	Licence type***	Gas/Oil
De Lier	NAM	Rijswijk	pl	O&G
IJsselmonde	NAM	Rijswijk	pl	O&G
Moerkapelle	NAM	Rijswijk	pl	O
Pijnacker	NAM	Rijswijk	pl	O&G
Rijswijk	NAM	Rijswijk	pl	O&G
Wassenaar	NAM	Rijswijk	pl	O
Zoetermeer	NAM	Rijswijk	pl	O&G
Rijn****	TAQA	P15a	pl	O&G

* 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).

*** el = exploration licence, pla = production licence application, pl = production licence ; sl = storage licence, open a = open area licence applied.

**** Production temporarily closed in.

EXPLORATION LICENCES, Netherlands Territory as at 1 January 2010

	Licence holder	Licence	km ²	Awarded	Date of expiry	Government Gazette
1	Cuadrilla Resources Ltd.	Noord-Brabant	1929	14-10-2009	24-11-2014	16000
2	DSM Energie (Rijn) B.V.	Peel	365	17-11-2009	28-12-2013	17675
3	Northern Petroleum Nederland B.V.	Engelen	97	14-10-2009	24-11-2013	16878
4	Northern Petroleum Nederland B.V.	Oosterwolde	127	20-04-2007	31-05-2012	83
5	Northern Petroleum Nederland B.V.	Utrecht	1152	26-04-2007	06-06-2012	85
6	Queensland Gas Company Limited PA Resources UK Ltd.	Oost-IJssel	3662	17-11-2009	28-12-2013	17680
		Total	14831	km ²		

PRODUCTION LICENCES, Netherlands Territory as at 1 January 2010

	Licence holder	Licence	km ²	Awarded	Date of expiry	Government Gazette
1	Nederlandse Aardolie Maatschappij B.V.	Beijerland	140	14-02-1997	14-02-2027	243
2	Nederlandse Aardolie Maatschappij B.V.	Botlek	235	18-02-1992	18-02-2027	141
3	Nederlandse Aardolie Maatschappij B.V.	Drenthe II	1888	18-07-2007		140
4	Nederlandse Aardolie Maatschappij B.V.	Groningen	2970	30-05-1963		126
5	Nederlandse Aardolie Maatschappij B.V.	Hardenberg	161	22-10-1990	22-10-2035	149
6	Nederlandse Aardolie Maatschappij B.V.	Middelie	946	12-05-1969		94
7	Nederlandse Aardolie Maatschappij B.V. ExxonMobil Producing Netherlands B.V.	Noord- Friesland	1593	27-02-1969		47
8	Nederlandse Aardolie Maatschappij B.V.	Rijswijk	2090	03-01-1955		21
9	Nederlandse Aardolie Maatschappij B.V.	Rossum-De Lutte	46	12-05-1961		116
10	Nederlandse Aardolie Maatschappij B.V.	Schoonebeek	930	03-05-1948		110
11	Nederlandse Aardolie Maatschappij B.V.	Tietjerksteradeel	411	27-02-1969		47
12	Nederlandse Aardolie Maatschappij B.V.	Tubbergen	177	11-03-1953		80
13	Nederlandse Aardolie Maatschappij B.V.	Twenthe	276	01-04-1977		26
14	Nederlandse Aardolie Maatschappij B.V. ExxonMobil Producing Netherlands B.V.	De Marne	7	04-10-1994	04-10-2034	189
15	Northern Petroleum Nederland B.V. Dyas B.V. Nederlandse Aardolie Maatschappij B.V.	Andel III	217	18-11-2008	30-12-2038	234
16	Northern Petroleum Nederland B.V. Dyas B.V. Nederlandse Aardolie Maatschappij B.V.	Drenthe III	389	18-07-2007		140
17	Northern Petroleum Nederland B.V. Dyas B.V.	Drenthe IV	7	18-07-2007		140
18	Northern Petroleum Nederland B.V.	Papekop	63	08-06-2006	19-07-2031	113

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
19	Northern Petroleum Nederland B.V. Essent Energy Gas Storage B.V. Gas Storage Ltd. Overseas Gas Storage Ltd.	Waalwijk	186	17-08-1989	17-08-2024	154
20	Smart Energy Solutions B.V.	Donkerbroek	22	04-04-1995	04-04-2025	66
21	Smart Energy Solutions B.V.	Oosterwolde	4	07-12-2006	17-01-2017	242
22	TAQA Piek Gas B.V. Dyas B.V. Petro-Canada Netherlands B.V.	Alkmaar	12	23-12-2006		232
23	TAQA Onshore B.V. Dyas B.V. Petro-Canada Netherlands B.V.	Bergen II	221	23-12-2006		232
24	TAQA Onshore B.V. Dyas B.V. Petro-Canada Netherlands B.V.	Bergermeer	19	23-12-2006		232
25	Vermilion Oil & Gas Netherlands B.V. Lundin Netherlands B.V.	Gorredijk	629	29-07-1989	29-07-2024	145
26	Vermilion Oil & Gas Netherlands B.V. Lundin Netherlands B.V.	Leeuwarden	614	27-02-1969		46
27	Vermilion Oil & Gas Netherlands B.V. Lundin Netherlands B.V.	Oosterend	92	05-09-1985		84
28	Vermilion Oil & Gas Netherlands B.V. Lundin Netherlands B.V.	Slootdorp	162	01-05-1969		94
29	Vermilion Oil & Gas Netherlands B.V.	Steenwijk	99	16-09-1994	16-09-2029	177
30	Vermilion Oil & Gas Netherlands B.V. Lundin Netherlands B.V.	Zuidwal	225	07-11-1984		190
			Total	14831	km²	

STORAGE LICENCES, Netherlands Territory as at 1 January 2010

	Licence holder	Licence	km ²	Awarded	Date of expiry	Government Gazette
1	Akzo Nobel Salt B.V.	Winschoten	28	01-04-2009	13-05-2079	67
2	Brabant Water N.V.	Zevenbergen	1	19-12-2008	19-12-2012	2009/3
3	N.V. Nederlandse Gasunie Akzo Nobel Salt B.V. Gasunie Zuidwending B.V. Nuon Zuidwending B.V.	Zuidwending	1	11-04-2006	11-04-2036	77
4	Nederlandse Aardolie Maatschappij B.V.	Grijpskerk	27	01-04-2003		67
5	Nederlandse Aardolie Maatschappij B.V.	Norg	81	01-04-2003		68
6	TAQA Piek Gas B.V. Dyas B.V. Petro-Canada Netherlands B.V.	Alkmaar	12	01-04-2003		68
7	TAQA Onshore B.V. Dyas B.V. Petro-Canada Netherlands B.V.	Bergermeer	19	08-01-2007	30-06-2050	7
8	Vitens Friesland	Noardburgum	1	18-06-2008	01-01-2011	117
		Total	170	km ²		

EXPLORATION LICENCES, Netherlands Continental Shelf as at 1 January 2010

	Licence holder	Licence	km ²	Awarded	Date of expiry*	Government Gazette	*
1	Ascent Resources Netherlands B.V.	M10 & M11	250	28-07-2007	10-09-2011	152	
2	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	A12b & B10a	79	16-04-2005		77	pla
3	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	B16a	67	11-05-1987		70	pla
4	Cirrus Energy Nederland B.V. Dyas B.V.	L16b	176	02-02-2006	15-03-2012	38	
5	Cirrus Energy Nederland B.V. Energy06 Investments B.V. TAQA Offshore B.V.	Q10b	367	06-08-2008	08-08-2011	155	
6	Cirrus Energy Nederland B.V. Energy06 Investments B.V.	Q13b-diep	369	23-12-2008	30-04-2013	5	
7	Cirrus Energy Nederland B.V. Energy06 Investments B.V.	Q16b & Q16c-diep	80	17-02-2009	05-08-2013	37	
8	Delta Hydrocarbons NL B.V.	Q13b-ondiep	369	23-12-2008	30-04-2013	5	
9	Delta Hydrocarbons NL B.V.	Q16b & Q16c-ondiep	80	17-02-2009	05-08-2013	37	
10	Elko Energy B.V. Elko Exploration B.V.	P01	209	28-06-2007	08-08-2013	128	
11	Elko Energy B.V. Elko Exploration B.V.	P02	416	22-02-2008	03-04-2014	42	
12	GDF SUEZ E&P Nederland B.V. Faroe Petroleum (UK) Ltd. TAQA Offshore B.V. Wintershall Noordzee B.V.	D18a	58	08-06-1979		103	pla

	Licence holder	Licence	km²	Awarded	Date of expiry*	Government Gazette	*
13	GDF SUEZ E&P Nederland B.V. Dyas B.V. Tullow Netherlands B.V. Wintershall Noordzee B.V.	E13b	169	22-12-2007	18-09-2011	9	
14	GDF SUEZ E&P Nederland B.V. Dyas B.V. Wintershall Noordzee B.V.	E16b	375	29-06-2007	09-08-2011	128	
15	GDF SUEZ E&P Nederland B.V. Lundin Netherlands B.V. Total E&P Nederland B.V.	E17c	290	22-02-2008	03-04-2012	42	
16	GDF SUEZ E&P Nederland B.V.	G10	397	17-06-2008	28-07-2012	115	
17	GDF SUEZ E&P Nederland B.V.	G11	169	17-06-2008	28-07-2012	115	
18	GDF SUEZ E&P Nederland B.V.	G13	403	17-06-2008	28-07-2012	115	
19	Grove Energy Ltd.	F14-ondiep	403	30-12-2009	21-11-2010	153	
20	Grove Energy Ltd.	F17a-ondiep	386	30-12-2009	25-08-2011	154	
21	Grove Energy Ltd.	F18-ondiep	404	30-12-2009	21-11-2010	152	
22	Grove Energy Ltd.	L01b-ondiep	339	30-12-2009	21-11-2010	149	
23	Petro-Canada Netherlands B.V. Dyas B.V.	F06b	390	07-04-2009	19-05-2014	70	
24	Petro-Canada Netherlands B.V.	P08c	210	06-01-2007	16-02-2013	7	
25	Smart Energy Solutions B.V. EWE Aktiengesellschaft	Q02a	21	04-09-2001		156	pla
26	Smart Energy Solutions B.V. PA Resources UK Ltd.	Q07	419	16-01-2008	26-02-2012	13	
27	Smart Energy Solutions B.V. PA Resources UK Ltd.	Q10a	53	06-08-2008	08-08-2011	155	
28	Tullow Netherlands B.V. Gas Plus Netherlands B.V. GTO Limited XTO Netherlands Ltd.	D09	149	15-01-2008	25-02-2014	11	

	Licence holder	Licence	km²	Awarded	Date of expiry*	Government Gazette	*
29	Tullow Netherlands B.V. GTO Limited XTO Netherlands Ltd.	E10	401	16-01-2008	26-02-2012	13	
30	Tullow Netherlands B.V.	E11	401	22-04-2009	03-06-2014	84	
31	Tullow Netherlands B.V. Gas Plus Netherlands B.V.	E13a	234	22-12-2007	18-09-2011	9	
32	Tullow Netherlands B.V. GTO Limited XTO Netherlands Ltd.	E14	403	15-01-2008	25-02-2012	12	
33	Tullow Netherlands B.V. Gas Plus Netherlands B.V. GTO Limited XTO Netherlands Ltd.	E15c	343	22-04-2008	02-06-2012	78	
34	Tullow Netherlands B.V. GTO Limited XTO Netherlands Ltd.	E18b	192	11-01-2008	21-02-2012	10	
35	Venture Production Nederland B.V. Cirrus Energy Nederland B.V. Dana Petroleum (E&P) Ltd.	A15a	67	23-02-1999		14	pla
36	Venture Production Nederland B.V. Dana Petroleum (E&P) Ltd. Petro-Canada Netherlands B.V. TAQA Offshore B.V.	B17a	80	02-06-1987		70	pla
37	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V.	D18b	139	26-01-2008	07-03-2012	20	
38	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V. Rosewood Exploration Ltd. TAQA Offshore B.V.	F14-diep	403	30-12-2009	21-11-2010	153	
39	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V. Rosewood Exploration Ltd. TAQA Offshore B.V.	F17a-diep	386	30-12-2009	25-08-2011	154	

	Licence holder	Licence	km²	Awarded	Date of expiry*	Government Gazette	*
40	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V. Rosewood Exploration Ltd.	F18-diep	404	30-12-2009	21-11-2010	152	
41	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V.	K03e	258	22-04-2009	03-06-2013	80	
42	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V. Rosewood Exploration Ltd.	L01b-diep	339	30-12-2009	21-11-2010	149	
43	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L06a	332	22-08-2003	02-10-2010	162	
44	Wintershall Noordzee B.V.	P03	416	14-10-2008	24-11-2012	202	
45	Wintershall Noordzee B.V. Dyas B.V.	P05	417	11-10-2006	21-11-2013	200	
46	Wintershall Noordzee B.V. Dyas B.V.	P08b	209	06-01-2007	16-02-2013	7	
		Total	12521	km ²			

* pla: Licence holder has filed an application for a production licence.

PRODUCTION LICENCES, Netherlands Continental Shelf as at 1 January 2010

	Licence holder	Licence	km ²	Awarded	Date of expiry	Government Gazette
1	ATP Oil and Gas Netherlands B.V.	L06d	16	07-03-2003	18-04-2013	48
2	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	A12a	195	01-07-2005	11-08-2025	129
3	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	A12d	33	01-07-2005	11-08-2025	129
4	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	A18a	229	01-07-2005	11-08-2025	129
5	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V.	A18c	47	01-07-2005	11-08-2025	125
6	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	B10c & B13a	252	01-07-2005	11-08-2025	129
7	Chevron Expl.and Prod. Netherlands B.V. Aceiro Energy B.V. Dyas B.V. TAQA Offshore B.V. Wintershall Noordzee B.V.	P09a & P09b	126	16-08-1993	16-08-2033	127
8	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V. Wintershall Noordzee B.V.	P09c	267	16-08-1993	16-08-2033	126
9	Chevron Expl.and Prod. Netherlands B.V. TAQA Offshore B.V. Wintershall Noordzee B.V.	Q01	416	11-07-1980	11-07-2020	110

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
10	Chevron Expl.and Prod. Netherlands B.V. Dyas B.V. TAQA Offshore B.V.	Q02c	32	14-07-1994	14-07-2034	18
11	Cirrus Energy Nederland B.V. Energy06 Investments B.V. TAQA Offshore B.V.	L11b	47	15-06-1984	15-06-2024	110
12	Cirrus Energy Nederland B.V. Energy06 Investments B.V.	M01a	213	28-06-2007	08-08-2022	128
13	Cirrus Energy Nederland B.V. Energy06 Investments B.V. TAQA Offshore B.V.	M07	409	22-03-2001	22-03-2021	19
14	Delta Hydrocarbons NL B.V. Aceiro Energy B.V. TAQA Offshore B.V.	Q13a	30	28-11-2006	28-12-2021	231
15	GDF SUEZ E&P Nederland B.V. Faroe Petroleum (UK) Ltd. Wintershall Noordzee B.V.	D15	247	06-09-1996	06-09-2021	138
16	GDF SUEZ E&P Nederland B.V. Lundin Netherlands B.V. Total E&P Nederland B.V.	E16a	29	29-06-2007	09-08-2021	128
17	GDF SUEZ E&P Nederland B.V. Lundin Netherlands B.V. Total E&P Nederland B.V.	E17a & E17b	114	28-06-2007	08-08-2021	128
18	GDF SUEZ E&P Nederland B.V. TAQA Offshore B.V.	F03b	335	13-12-2007	09-09-2022	245
19	GDF SUEZ E&P Nederland B.V. Nederlandse Aardolie Maatschappij B.V. TAQA Offshore B.V.	G14 & G17b	441	15-12-2006	14-12-2019	248
20	GDF SUEZ E&P Nederland B.V.	G16a	224	06-01-1992	06-01-2032	245
21	GDF SUEZ E&P Nederland B.V.	G16b	5	11-10-2003	06-01-2032	198
22	GDF SUEZ E&P Nederland B.V.	G17a	237	19-07-2006	14-12-2019	143

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
23	GDF SUEZ E&P Nederland B.V. Wintershall Noordzee B.V.	G17c & G17d	130	10-11-2000	10-11-2025	188
24	GDF SUEZ E&P Nederland B.V.	K02b	110	20-01-2004	24-08-2023	16
25	GDF SUEZ E&P Nederland B.V.	K03a	83	24-08-1998	24-08-2023	122
26	GDF SUEZ E&P Nederland B.V.	K03c	32	26-11-2005	06-01-2021	233
27	GDF SUEZ E&P Nederland B.V. EWE Aktiengesellschaft Rosewood Exploration Ltd. XTO Netherlands Ltd.	K09a & K09b	211	11-08-1986	11-08-2026	129
28	GDF SUEZ E&P Nederland B.V. EWE Aktiengesellschaft Rosewood Exploration Ltd. XTO Netherlands Ltd.	K09c	199	18-12-1987	18-12-2027	229
29	GDF SUEZ E&P Nederland B.V. EWE Aktiengesellschaft Production North Sea Netherlands Ltd. Rosewood Exploration Ltd. XTO Netherlands Ltd.	K12	411	18-02-1983	18-02-2023	11
30	GDF SUEZ E&P Nederland B.V.	L04c	12	07-01-1994	07-01-2034	2
31	GDF SUEZ E&P Nederland B.V.	L05a	163	15-03-1991	15-03-2031	55
32	GDF SUEZ E&P Nederland B.V. EWE Aktiengesellschaft GDF SUEZ E&P Participation Ned. B.V. Rosewood Exploration Ltd. XTO Netherlands Ltd.	L10 & L11a	596	13-01-1971	13-01-2011	4
33	GDF SUEZ E&P Nederland B.V. Nuon E&P The Netherlands B.V. Oranje-Nassau Energie B.V. Wintershall Noordzee B.V.	L12a	119	25-09-2008	14-03-2030	189
34	GDF SUEZ E&P Nederland B.V. Nuon E&P The Netherlands B.V. Wintershall Noordzee B.V.	L12b & L15b	92	06-08-2008	12-03-2030	155
35	GDF SUEZ E&P Nederland B.V.	L15c	4	07-09-1990	07-09-2030	172

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
36	GDF SUEZ E&P Nederland B.V. Rosewood Exploration Ltd. XTO Netherlands Ltd.	N07b	174	23-12-2003	10-03-2034	252
37	Grove Energy Ltd.	P08a	26	21-10-2006	01-12-2021	214
38	Nederlandse Aardolie Maatschappij B.V.	F17c	18	04-12-1996	04-12-2011	207
39	Nederlandse Aardolie Maatschappij B.V.	K07	408	08-07-1981	08-07-2021	120
40	Nederlandse Aardolie Maatschappij B.V. Nuon E&P The Netherlands B.V. Oranje-Nassau Energie B.V. Wintershall Noordzee B.V.	K08 & K11	820	26-10-1977	26-10-2017	197
41	Nederlandse Aardolie Maatschappij B.V.	K14	412	16-01-1975	16-01-2015	6
42	Nederlandse Aardolie Maatschappij B.V.	K15	412	14-10-1977	14-10-2017	197
43	Nederlandse Aardolie Maatschappij B.V.	K17	414	19-01-1989	19-01-2029	12
44	Nederlandse Aardolie Maatschappij B.V. Wintershall Noordzee B.V.	K18a	36	15-03-2007	09-05-2023	57
45	Nederlandse Aardolie Maatschappij B.V.	L02	406	15-03-1991	15-03-2031	55
46	Nederlandse Aardolie Maatschappij B.V.	L09a	208	09-05-1995	09-05-2035	113
47	Nederlandse Aardolie Maatschappij B.V.	L09b	201	09-05-1995	09-05-2035	114
48	Nederlandse Aardolie Maatschappij B.V. Nuon E&P The Netherlands B.V. Oranje-Nassau Energie B.V. Wintershall Noordzee B.V.	L13	413	26-10-1977	26-10-2017	197

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
49	Nederlandse Aardolie Maatschappij B.V. ExxonMobil Producing Netherlands B.V.	M09a	213	10-04-1990	10-04-2030	56
50	Nederlandse Aardolie Maatschappij B.V.	N07a	141	23-12-2003	10-03-2034	252
51	Nederlandse Aardolie Maatschappij B.V. Lundin Netherlands B.V. Total E&P Nederland B.V.	Q16a	85	29-12-1992	29-12-2032	227
52	Petro-Canada Netherlands B.V. Dyas B.V. Noble Energy (Europe) Ltd. Oranje-Nassau Energie B.V. TAQA Offshore B.V.	F02a	307	24-08-1982	24-08-2022	139
53	Petro-Canada Netherlands B.V.	P10a	5	31-05-2005	11-07-2020	102
54	Petro-Canada Netherlands B.V.	P10b	100	07-04-2009	19-05-2019	70
55	Petro-Canada Netherlands B.V.	P11b	210	03-04-2004	14-05-2019	67
56	Petro-Canada Netherlands B.V. Smart Energy Solutions B.V.	P14a	316	23-06-1992	23-06-2032	99
57	TAQA Offshore B.V. Dyas B.V. Oranje-Nassau Energie B.V. Petro-Canada Netherlands B.V. Van Dyke Netherlands Inc. Wintershall Noordzee B.V.	P15a & P15b	220	12-07-1984	12-07-2024	110
58	TAQA Offshore B.V. Dyas B.V. Oranje-Nassau Energie B.V. Petro-Canada Netherlands B.V. Wintershall Noordzee B.V.	P15c	203	07-05-1992	07-05-2032	114
59	TAQA Offshore B.V.	P18a	105	30-04-1992	30-04-2032	99
60	TAQA Offshore B.V. Dyas B.V. Petro-Canada Netherlands B.V.	P18c	6	02-06-1992	02-06-2032	99

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
61	Total E&P Nederland B.V. Lundin Netherlands B.V. TAQA Offshore B.V.	F06a	8	09-09-1982	09-09-2022	139
62	Total E&P Nederland B.V. Dyas B.V. First Oil Expro Ltd. Lundin Netherlands B.V.	F15a	233	06-05-1991	06-05-2031	52
63	Total E&P Nederland B.V. Dyas B.V. First Oil Expro Ltd. Lundin Netherlands B.V.	F15d	4	15-06-1992	15-06-2032	97
64	Total E&P Nederland B.V. Nederlandse Aardolie Maatschappij B.V.	J03a	72	12-01-1996	12-01-2036	22
65	Total E&P Nederland B.V. Nederlandse Aardolie Maatschappij B.V.	K01a	83	10-02-1997	10-02-2022	46
66	Total E&P Nederland B.V. Rosewood Exploration Ltd.	K01b & K02a	75	20-06-2009	31-07-2022	11801
67	Total E&P Nederland B.V. Rosewood Exploration Ltd.	K02c	46	21-01-2004	07-11-2021	16
68	Total E&P Nederland B.V. Lundin Netherlands B.V.	K03b	7	30-01-2001	30-01-2021	19
69	Total E&P Nederland B.V. Lundin Netherlands B.V.	K03d	26	01-04-1999	01-04-2024	58
70	Total E&P Nederland B.V.	K04a	307	29-12-1993	29-12-2033	220
71	Total E&P Nederland B.V. Dyas B.V. Lundin Netherlands B.V.	K04b & K05a	305	01-06-1993	01-06-2033	87
72	Total E&P Nederland B.V. Rosewood Exploration Ltd.	K05b	204	07-11-1996	07-11-2021	207
73	Total E&P Nederland B.V. Lundin Netherlands B.V.	K06 & L07	817	20-06-1975	20-06-2015	112

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
74	Total E&P Nederland B.V. Van Dyke Netherlands Inc.	L01a	31	12-09-1996	12-09-2016	135
75	Total E&P Nederland B.V.	L01d	7	13-11-1996	13-11-2016	207
76	Total E&P Nederland B.V. Lundin Netherlands B.V.	L01e	12	13-11-1996	13-11-2011	207
77	Total E&P Nederland B.V. Lundin Netherlands B.V.	L01f	17	14-01-2003	14-01-2033	235
78	Total E&P Nederland B.V. Lundin Netherlands B.V.	L04a	313	30-12-1981	30-12-2021	230
79	Tullow Netherlands B.V. Nuon E&P The Netherlands B.V. Wintershall Noordzee B.V.	L12c	30	06-08-2008	12-03-2030	155
80	Tullow Netherlands B.V. Nuon E&P The Netherlands B.V. Oranje-Nassau Energie B.V. Wintershall Noordzee B.V.	L12d	225	25-09-2008	14-03-2030	189
81	Tullow Netherlands B.V. Nuon E&P The Netherlands B.V. Wintershall Noordzee B.V.	L15d	62	06-08-2008	12-03-2030	155
82	Venture Production Nederland B.V.	B18a	40	10-10-1985	10-10-2025	182
83	Venture Production Nederland B.V.	F03a	62	13-12-2007	09-09-2022	245
84	Venture Production Nederland B.V. Dyas B.V. Total E&P Nederland B.V.	J03b & J06	126	06-11-1992	06-11-2032	219
85	Wintershall Noordzee B.V. GDF SUEZ E&P Participation Ned. B.V.	D12a	214	06-09-1996	06-09-2021	138
86	Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. GDF SUEZ E&P Nederland B.V. Nuon E&P The Netherlands B.V.	E15a	39	04-10-2002	21-10-2032	175

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
87	Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. Nuon E&P The Netherlands B.V.	E15b	21	20-02-2008	01-04-2033	38
88	Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. GDF SUEZ E&P Nederland B.V. Nuon E&P The Netherlands B.V.	E18a	212	04-10-2002	21-10-2032	175
89	Wintershall Noordzee B.V. Dana Petroleum (E&P) Ltd. GDF SUEZ E&P Nederland B.V. Nuon E&P The Netherlands B.V.	F13a	4	04-10-2002	21-10-2032	175
90	Wintershall Noordzee B.V. GDF SUEZ E&P Nederland B.V. Grove Energy Ltd.	F16	404	04-10-2002	21-10-2032	175
91	Wintershall Noordzee B.V. Cirrus Energy Nederland B.V. Energy06 Investments B.V. Petro-Canada Netherlands B.V.	K10a	195	26-01-1983	26-01-2023	9
92	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	K10b & K10c	93	22-04-1993	22-04-2033	53
93	Wintershall Noordzee B.V. Dyas B.V. Nederlandse Aardolie Maatschappij B.V. Petro-Canada Netherlands B.V.	K18b	155	15-03-2007	09-05-2023	57
94	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L05b	237	28-06-2003	09-08-2038	134
95	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L05c	8	03-12-1996	03-12-2016	209
96	Wintershall Noordzee B.V. Petro-Canada Netherlands B.V.	L06b	60	01-07-2003	11-08-2038	134
97	Wintershall Noordzee B.V. Cirrus Energy Nederland B.V. EWE Aktiengesellschaft TAQA Offshore B.V.	L08a	213	18-08-1988	18-08-2028	146
98	Wintershall Noordzee B.V.	L08b	181	17-05-1993	17-05-2033	78

	Licence holder	Licence	km²	Awarded	Date of expiry	Government Gazette
	Cirrus Energy Nederland B.V. Petro-Canada Netherlands B.V.					
99	Wintershall Noordzee B.V. Dyas B.V. Nederlandse Aardolie Maatschappij B.V. Petro-Canada Netherlands B.V.	L16a	238	12-06-1984	12-06-2024	84
100	Wintershall Noordzee B.V. Dyas B.V.	P06	417	14-04-1982	14-04-2022	54
101	Wintershall Noordzee B.V. Dyas B.V. Northern Petroleum Nederland B.V.	P12	421	08-03-1990	08-03-2030	27
102	Wintershall Noordzee B.V. Dyas B.V. Nuon E&P The Netherlands B.V.	Q04	417	02-12-1999	02-12-2019	228
103	Wintershall Noordzee B.V. Dyas B.V. Nuon E&P The Netherlands B.V.	Q05c, d & e	146	15-02-2001	15-02-2021	19
104	Wintershall Noordzee B.V. Dyas B.V.	Q08	247	15-09-1986	15-09-2026	173
		Total	18 999	km²		

LIST OF BLOCKS, Netherlands Continental Shelf as at 1 January 2010

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
A04	0			
A05	91			
A07	47			
A08	382			
A09	141			
A10	129			
A11	392			
A12a		Chevron		195
A12b		Chevron	31	
A12c	130			
A12d		Chevron		33
A13	211			
A14	393			
A15a		Venture	67	
A15b	326			
A16	293			
A17	395			
A18a		Chevron		229
A18b	119			
A18c		Chevron		47
B10a		Chevron	48	
B10b	85			
B10c		Chevron		46
B13a		Chevron		206
B13b	187			
B14	198			
B16a		Chevron	67	
B16b	327			
B17a		Venture	80	
B17b	315			
B18a		Venture		40
B18b	160			
D03	2			
D06	60			
D09		Tullow	149	
D12a		Wintershall		214
D12b	41			
D15		GDF Suez		247
D18a		GDF Suez	58	
D18b		Wintershall	139	

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
E01	373			
E02	396			
E03	396			
E04	398			
E05	398			
E06	398			
E07	400			
E08	400			
E09	400			
E10		Tullow	401	
E11		Tullow	401	
E12	401			
E13a		Tullow	234	
E13b		GDF Suez	169	
E14		Tullow	403	
E15a		Wintershall		39
E15b		Wintershall		21
E15c		Tullow	343	
E16a		GDF Suez		29
E16b		GDF Suez	375	
E17a		GDF Suez		87
E17b		GDF Suez		27
E17c		GDF Suez	290	
E18a		Wintershall		212
E18b		Tullow	192	
F01	396			
F02a		Petro-Canada		307
F02b	89			
F03a		Venture		62
F03b		GDF Suez		335
F04	398			
F05	398			
F06a		Total		8
F06b		Petro-Canada	390	
F07	400			
F08	400			
F09	400			
F10	401			
F11	401			
F12	401			
F13a		Wintershall		4
F13b	399			
F14		Grove / Wintershall	403	

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
F15a		Total		233
F15b	73			
F15c	93			
F15d		Total		4
F16		Wintershall		404
F17a		Grove / Wintershall	386	
F17c		NAM		18
F18		Grove / Wintershall	404	
G07	120			
G10		GDF Suez	397	
G11		GDF Suez	169	
G13		GDF Suez	403	
G14		GDF Suez		403
G15	226			
G16a		GDF Suez		224
G16b		GDF Suez		5
G16c	176			
G17a		GDF Suez		237
G17b		GDF Suez		38
G17c		GDF Suez		34
G17d		GDF Suez		96
G18	405			
H13	1			
H16	72			
J03a		Total		72
J03b		Venture		42
J03c	30			
J06		Venture		83
J09	18			
K01a		Total		83
K01b		Total		50
K01c	274			
K02a		Total		25
K02b		GDF Suez		110
K02c		Total		46
K02d	225			
K03a		GDF Suez		83
K03b		Total		7
K03c		GDF Suez		32
K03d		Total		26
K03e		Wintershall	258	

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
K04a		Total		307
K04b		Total		101
K05a		Total		204
K05b		Total		204
K06		Total		408
K07		NAM		408
K08		NAM		409
K09a		GDF Suez		150
K09b		GDF Suez		61
K09c		GDF Suez		199
K10a		Wintershall		195
K10b		Wintershall		68
K10c		Wintershall		26
K10d	86			
K11		NAM		411
K12		GDF Suez		411
K13	324			
K14		NAM		412
K15		NAM		412
K16	267			
K17		NAM		414
K18a		NAM		36
K18b		Wintershall		155
K18c	223			
L01a		Total		31
L01b		Grove / Wintershall	339	
L01d		Total		7
L01e		Total		12
L01f		Total		17
L02		NAM		406
L03	406			
L04a		Total		313
L04b	82			
L04c		GDF Suez		12
L05a		GDF Suez		163
L05b		Wintershall		237
L05c		Wintershall		8
L06a		Wintershall	332	
L06b		Wintershall		60
L06d		ATP		16
L07		Total		409
L08a		Wintershall		213
L08b		Wintershall		181
L08c	16			

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
L09a		NAM		208
L09b		NAM		201
L10		GDF Suez		411
L11a		GDF Suez		185
L11b		Cirrus		47
L11c	179			
L12a		GDF Suez		119
L12b		GDF Suez		37
L12c		Tullow		30
L12d		Tullow		225
L13		NAM		413
L14	413			
L15a	81			
L15b		GDF Suez		55
L15c		GDF Suez		4
L15d		Tullow		62
L16a		Wintershall		238
L16b		Cirrus	176	
L17	394			
L18	14			
M01a		Cirrus		213
M01b	193			
M02	406			
M03	406			
M04	408			
M05	408			
M06	408			
M07		Cirrus		409
M08	406			
M09a		NAM		213
M09b	158			
M10		Ascent	222	
M11		Ascent	28	
N01	217			
N04	381			
N05	14			
N07a		NAM		141
N07b		GDF Suez		174
N08	35			
O12	2			
O15	142			
O17	3			

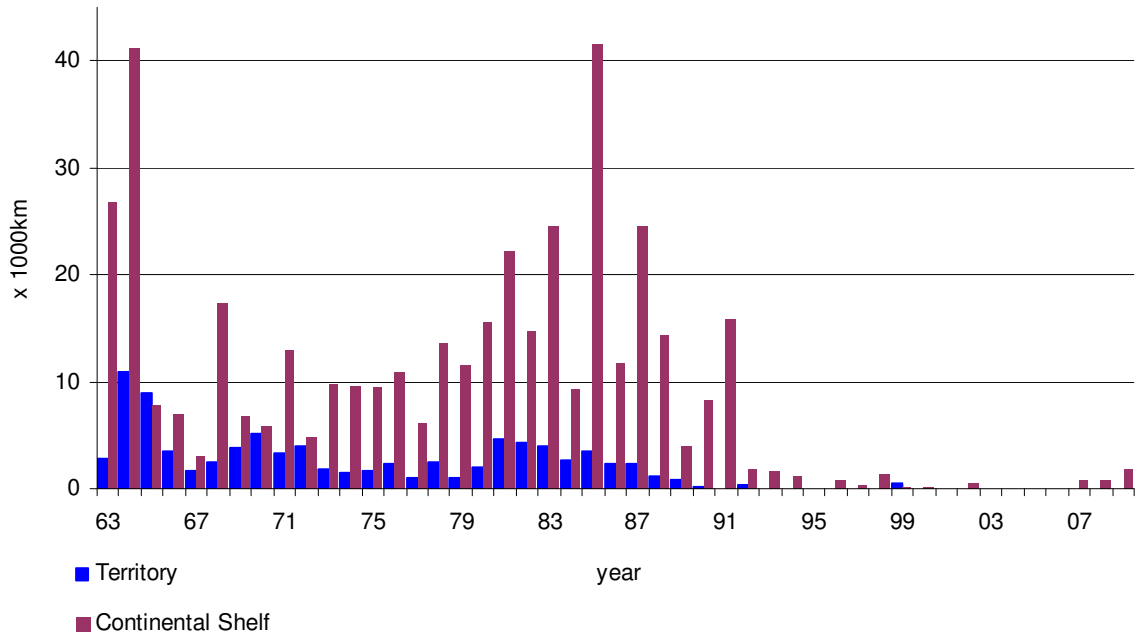
Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
O18	367			
P01		Elko	209	
P02		Elko	416	
P03		Wintershall	416	
P04	170			
P05		Wintershall	417	
P06		Wintershall		417
P07	222			
P08a		Grove		26
P08b		Wintershall	209	
P08c		Petro-Canada	210	
P09a		Chevron		59
P09b		Chevron		67
P09c		Chevron		267
P09d	26			
P10a		Petro-Canada		5
P10b		Petro-Canada		100
P10c	249			
P11a	210			
P11b		Petro-Canada		210
P12		Wintershall		421
P13	422			
P14a		Petro-Canada		316
P14b	106			
P15a		Taqa		203
P15b		Taqa		17
P15c		Taqa		203
P16	423			
P17	424			
P18a		Taqa		105
P18b	313			
P18c		Taqa		6
Q01		Chevron		416
Q02a		SES	21	
Q02b	312			
Q02c		Chevron		32
Q04		Wintershall		417
Q05a	0			
Q05b	104			
Q05c		Wintershall		98
Q05d		Wintershall		44
Q05e		Wintershall		4
Q05f	48			

Block/ Part of block	Area not in licence (km ²)	Licence holder	Licence (km ²)	
			Exploration	Production
Q05i	0			
Q07		SES	419	
Q08		Wintershall		247
Q10a		SES	53	
Q10b		Cirrus	367	
Q11	162			
Q13a		Delta		30
Q13b		Delta / Cirrus	369	
Q14	25			
Q16a		NAM		85
Q16b		Delta / Cirrus	59	
Q16c		Delta / Cirrus	21	
R02	103			
R03	425			
R05	7			
R06	311			
R09	28			
S01	425			
S02	425			
S03	340			
S04	427			
S05	378			
S06	45			
S07	360			
S08	129			
S10	36			
S11	0			
T01	1			
Total	27275		10540	18998

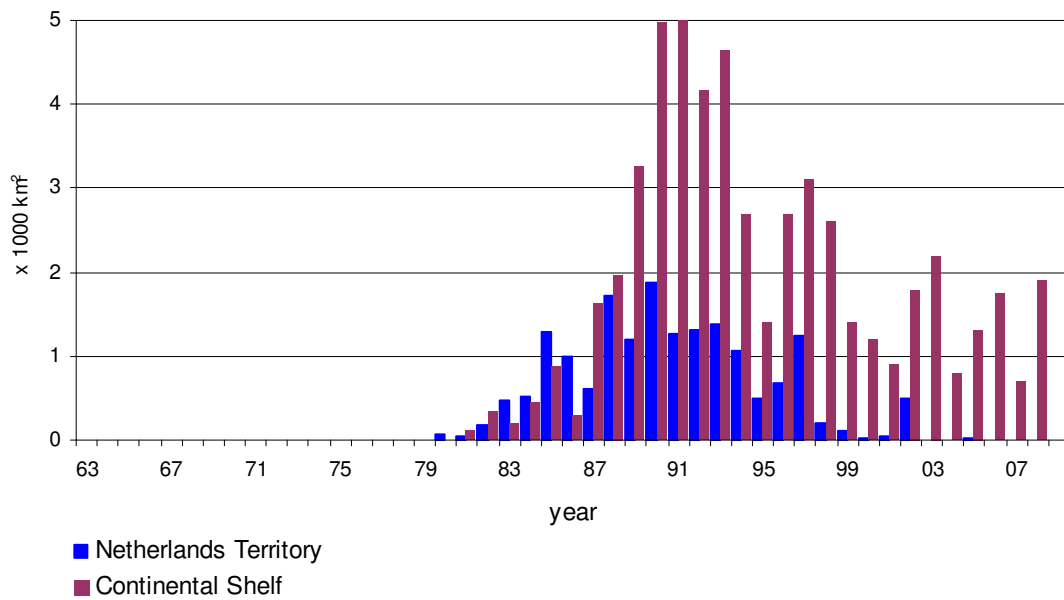
SEISMIC SURVEYS

Year	Netherlands Territory		Continental Shelf	
	2 D line km	3 D area km ²	2 D line km	3 D area 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
06	-	-	53	1 732
07	-	-	886	700
08	-	-	838	1 893
09	-	-	1849	-

2D Seismic surveys 1963 – 2009



3D Seismic surveys 1963 – 2009



OIL AND GAS WELLS, number of wells Netherlands Territory

Year	Exploration					Appraisal					Production
	O	G	G&O	D	Σ	O	G	G&O	D	Σ	Σ
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
06	-	3	-	1	4	-	1	-	-	1	6
07	-	2	-	-	2	-	3	-	2	5	9
08	-	1	-	-	1	-	1	-	-	1	1
09	-	1	-	1	2	-	3	-	-	3	26
Total:	7	154	8	239	408	25	192	1	36	254	1 169

D = dry

O = oil

G = gas

Σ = total

G&O = gas and oil

OIL AND GAS WELLS, number of wells Netherlands Continental Shelf

Year	Exploration					Appraisal					Production
	O	G	G&O	D	Σ	O	G	G&O	D	Σ	Σ
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
06	-	3	-	6	9	1	2	-	-	3	16
07	-	3	-	2	5	-	2	-	-	2	12
08	-	4	1	3	8	-	3	-	-	3	13
09	-	4	-	3	7	-	3	-	-	3	11
Total:	27	254	4	451	736	26	96	2	46	167	491

D = dry

O = oil

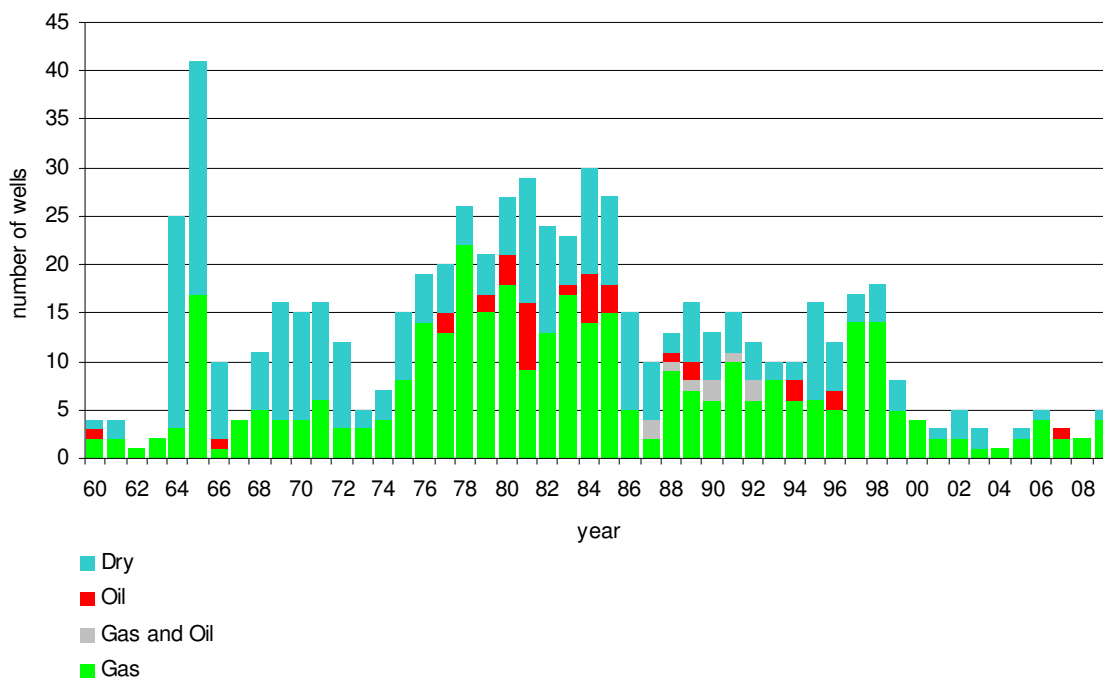
G = gas

Σ = total

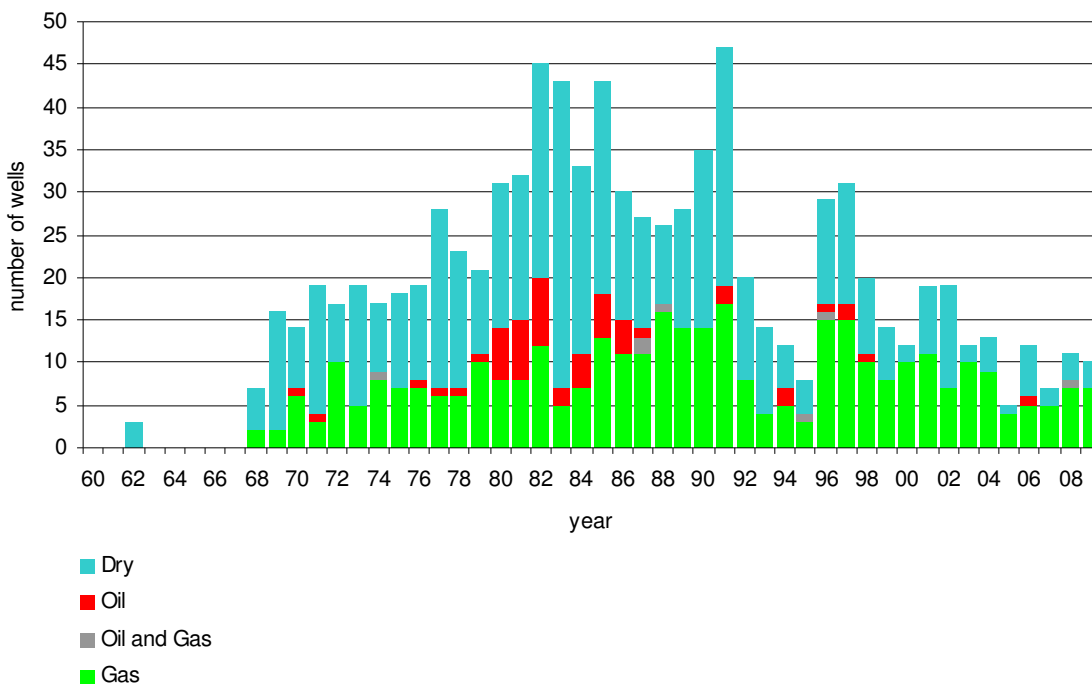
G&O = gas and oil

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

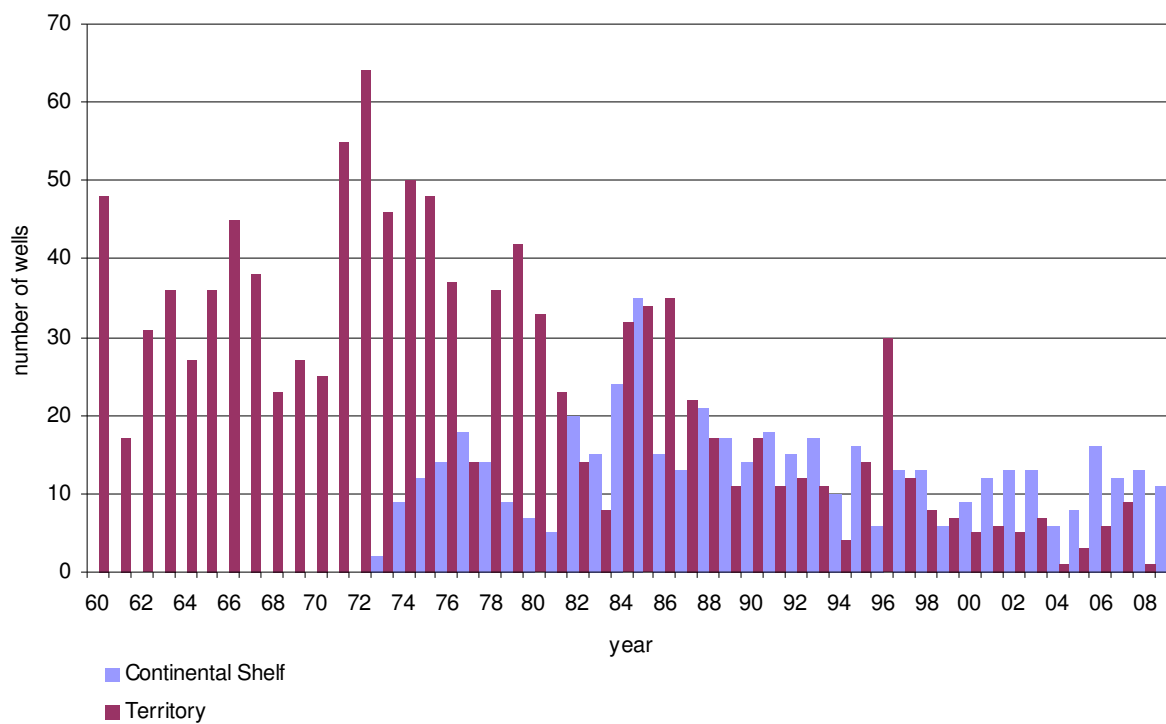
Exploration and appraisal wells, Netherlands Territory 1960 – 2009



Exploration and appraisal wells, Continental Shelf 1960 – 2009



Production wells 1960 – 2009



PLATFORMS, Netherlands Continental Shelf as at 1 January 2010

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	--	jacket
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
L7-A	Total	1984	4	G	satellite

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
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	TAQA	1985	4	O	wellhead
P15-RIJN-C	TAQA	1985	6	O	production
P6-B	Wintershall	1985	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
J6-A	ENI	1992	6	G	integrated
K6-C	Total	1992	4	G	wellhead/riser
K6-DN	Total	1992	4	G	satellite

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
L5-FA-1	NAM	1992	6	G	integrated
P15-10S	TAQA	1992	-	G	subsea completion
P15-12S	TAQA	1992	-	G	subsea completion
P15-14S	TAQA	1992	-	G	subsea completion
F3-FB-AP	NAM	1993	3	G+O	accommodation
F3-OLT	NAM	1993	1	O	offshore loading tower
K6-N	Total	1993	4	G	satellite
L15-FA-1	NAM	1993	6	G	integrated
P15-D	TAQA	1993	6	G	production
P15-E	TAQA	1993	4	G	satellite
P15-F	TAQA	1993	4	G	satellite
P15-G	TAQA	1993	4	G	satellite
P18-A	TAQA	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
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
K9ab-B	Gaz de France	1999	4	G	satellite
L4-PN	Total	1999	4	G	satellite
F2-A-Hanze	PCN	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

Platform	Operator	Year of installation	Number of legs	G* / O*	Function
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	-	G	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
P11-B-DeRuyter	PCN	2006	GBS	O	integrated
J6-C	CH4	2006	4	G	riser/compressor
L5-C	Wintershall	2006	4	G	satellite
K12-K	Gaz de France	2006	4	G	wellhead
G14-B	Gaz de France	2006	4	G	wellhead
A12-CPP	Chevron	2007	4	G	Integrated
L09-FA-01	NAM	2007	1	G	wellhead
L09-FB-01	NAM	2007	1	G	wellhead
E17-A	GDFSuez	2009	4	G	satellite
E18-A	Wintershall	2009	4	G	satellite
M7-A	Cirrus	2009	1	G	satellite
P9-A	Wintershall	2009	-	G	subsea completion
P9-B	Wintershall	2009	-	G	subsea completion

G* = Gas

O* = Oil

GBS = Gravity Based Structure

PIPELINES, Netherlands Continental Shelf as at 1 January 2010

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	aband.
NAM	K11-FA-1	K8-FA-1	6.625	1978	6.0	aband.
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	aband.
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	aband.
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
TAQA	P15-C	Hoek v. Holland	10	1985	42.6	o
TAQA	P15-B	P15-C	10	1985	3.4	aband.
TAQA	P15-B	P15-C	6	1985	3.4	aband.
TAQA	P15-C	P15-B	6	1985	3.4	aband.
TAQA	P15-B	P15-C	4	1985	3.4	aband.
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
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

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
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	aband.
Gaz de France	K12-E	K12-C	10.75	1986	6.3	aband.
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	aband.
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	aband.
Gaz de France	K12-E	L10-S1	90 mm	1988	4.6	aband.
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	aband.
Gaz de France	L14-S1	L11a-A	6.625 * 2.375	1990	6.0	aband.
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	aband.
Wintershall	P12-C	P12-SW	8 * 3	1990	6.9	aband.
Wintershall	P12-SW	P6-A	12 * 3	1990	42.0	g + gl
Gaz de France	K12-S1	K12-BP	6.625 * 2.375	1991	4.9	aband.
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	Callantsoog	36	1991	144.2	g + co
NAM	L5-FA-1	NOGAT-pipe (s)	16	1991	0.4	g + co

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
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
TAQA	P15-D	Maasvlakte	26	1993	40.1	g
TAQA	P15-E	P15-D	10 * 2	1993	13.9	g + m
TAQA	P15-F	P15-D	12 * 3	1993	9.1	g + m
TAQA	P15-G	P15-D	12 * 3	1993	9.1	g + m
TAQA	P15-10S	P15-D	4 * 2	1993	3.9	g + m
TAQA	P15-D	P15-10S	90 mm	1993	3.9	c
TAQA	P15-12S	P15-D	4 * 2	1993	6.1	g + m
TAQA	P15-D	P15-12S	90 mm	1993	6.1	c
TAQA	P15-14S	P15-G	4 * 2	1993	3.7	g + m
TAQA	P15-D	P15-14S	90 mm	1993	8.0	c
TAQA	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	def. verl.
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	aband.
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	aband.
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

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
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	aband.
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	aband.
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	aband.
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
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

Operator	From	To	Diameter (inches)	Laid (year)	Length (km)	Carries
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	10	2004	4.9	g
Wintershall	D12-A	D15-FA-1	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	5.7	g + c
Gaz de France	K2b-A	D15-FA-1/L10-A	12	2005	2.8	
		NGT-pipe (s)				
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	40.0	g + c
Petro-Canada	P11-B-Ruyter	P11-B-TMLS	16	2005	1.5	o
Petro-Canada	P11-B-Ruyter	P12-SW	8	2005	29.0	g
ATP	L6d	G17d-AP	6 * 73 mm	2006	40.0	g + c
CH4 Limited	UK	J6-CT	10 * 1.5	2006	18.3	g + m
Gaz de France	G16A-A	G17d-AP	10 * 2	2006	17.9	g + m
Gaz de France	Minke	D15-FA-1	8 , 90.6 mm	2006	15.1	g + c
Grove	Grove field	J6-CT	10 * 2	2006	13.4	g + m
NAM	K17-FA-1	K14-FB-1	16 * 2	2006	14.4	g + m
Petro-Canada	P11-B-Ruyter	P11-B-TMLS	16	2006	1.5	o
Petro-Canada	P11-B-Ruyter	P12-SW	8	2006	29.0	g
Total	L4G	L4-PA	6 , 92 mm	2006	10.6	g + c
Wintershall	L5-C	L8-P4	10 , 82 mm	2006	8.1	g + c
Chevron	A12 CCP	B10 NOGAT	16	2007	16.0	g
Gaz de France	G14-B	G17-D-AP	12	2007	13.4	g + m
Venture	Stamfort (UK)	J6-CT	6	2008	7.0	g
Total	L4PN	L4A	10	2008	11.4	g
NAM	L9FA	via L9FB-1» L9FF-1	16 and 2x2	2008	20.0	g + gl + gi
Total	K5-F	K6N	8	2008	10.0	g
Gaz de France	G14-B	G17-D-AP	12 * 2	2008	13.4	g + m
Gaz de France	K12-K	K12-BP	14* 2	2008	10.3	g + m
GDFSuez	E17-A	NGT	12	2009		g
Wintershall	E18-A	F16-A	10 * 84mm	2009		g+c
Wintershall	P9B	P6D	8 * 70mm	2009		g+c
Wintershall	P9A	P9B – P6D	8 * 70mm	2009		g+c
Cirrus	M7-A	L09-FF	6 * 2	2009		g+c

- Legend at next page

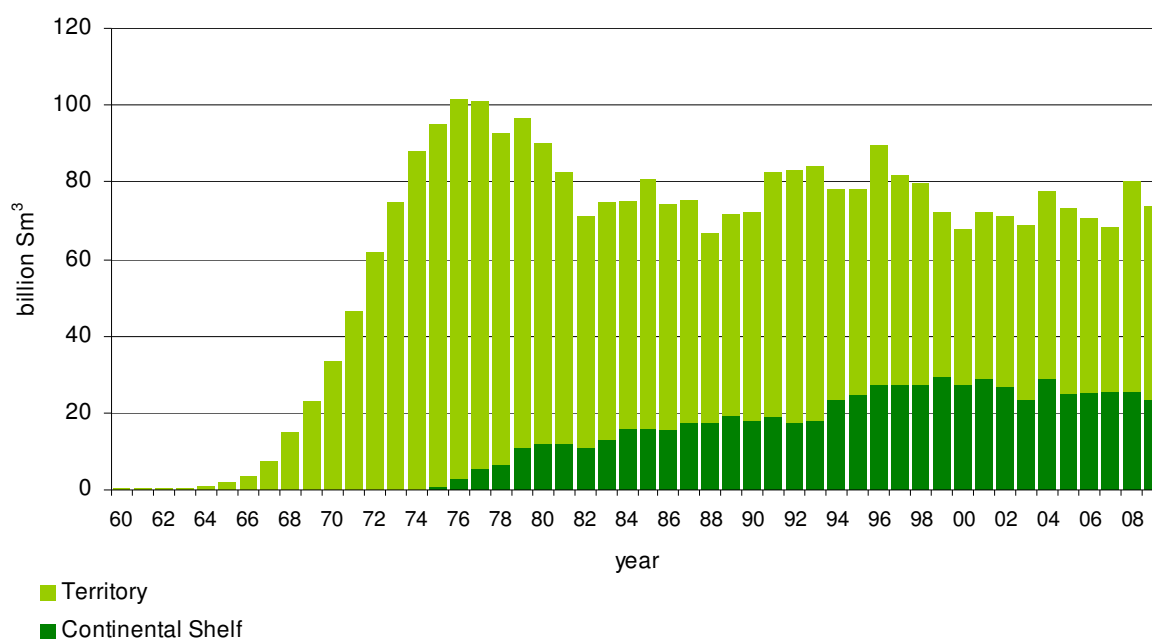
*	= multiple pipeline	gl	= glycol
+	= laid separately	m	= methanol
c	= control cable	ci	= corrosion inhibitor
o	= oil	l	= instrument air
g	= gas	(s)	= side-tap
co	= condensate	aband.	= abandoned

GAS PRODUCTION in million Sm³

Year	Territory	Continental Shelf	Total
1960	384.0	0.0	384.0
61	476.0	0.0	476.0
62	538.0	0.0	538.0
63	603.0	0.0	603.0
64	876.0	0.0	876.0
1965	1818.0	0.0	1818.0
66	3564.0	0.0	3564.0
67	7423.0	0.0	7423.0
68	14889.0	0.0	14889.0
69	23097.0	0.0	23097.0
1970	33418.0	7.9	33425.9
71	46248.0	2.4	46250.4
72	61661.0	1.4	61662.4
73	74766.0	7.8	74773.8
74	88359.0	14.6	88373.6
1975	93924.0	963.3	94887.3
76	98307.0	3092.7	101399.7
77	95603.0	5479.6	101082.6
78	86475.0	6298.5	92773.5
79	85862.0	10925.5	96787.5
1980	78209.0	12102.0	90311.0
81	70928.0	11798.3	82726.3
82	60004.0	11073.3	71077.3
83	61533.0	13172.2	74705.2
84	59352.0	15787.3	75139.3
1985	64573.0	16070.9	80643.9
86	58480.0	15549.0	74029.0
87	58089.0	17271.4	75360.4
88	49092.0	17591.2	66683.2
89	52570.0	19300.0	71870.0
1990	54585.0	17856.0	72441.0
91	63724.0	18686.3	82410.3
92	65702.0	17279.0	82981.0
93	66154.0	17851.4	84005.4
94	54863.0	23536.9	78399.9
1995	53643.0	24706.9	78349.9
96	62295.0	27350.6	89645.6
97	54261.0	27581.0	81842.0
98	52764.0	27141.0	79905.0
99	42823.0	29207.0	72030.0
2000	40320.2	27473.9	67794.1
01	43220.8	29043.1	72263.9
02	44472.4	26770.1	71242.5
03	45257.1	23508.0	68765.1
04	48422.3	29121.7	77544.0

Year	Territory	Continental Shelf	Total
2005	48019.2	25097.2	73116.4
06	45561.5	25179.9	70741.4
07	42706.6	25603.2	68309.8
08	54734.2	25224.3	79958.5
2009	50339.2	23393.1	73732.3
Total	2464988.5	668119.9	3133108.4

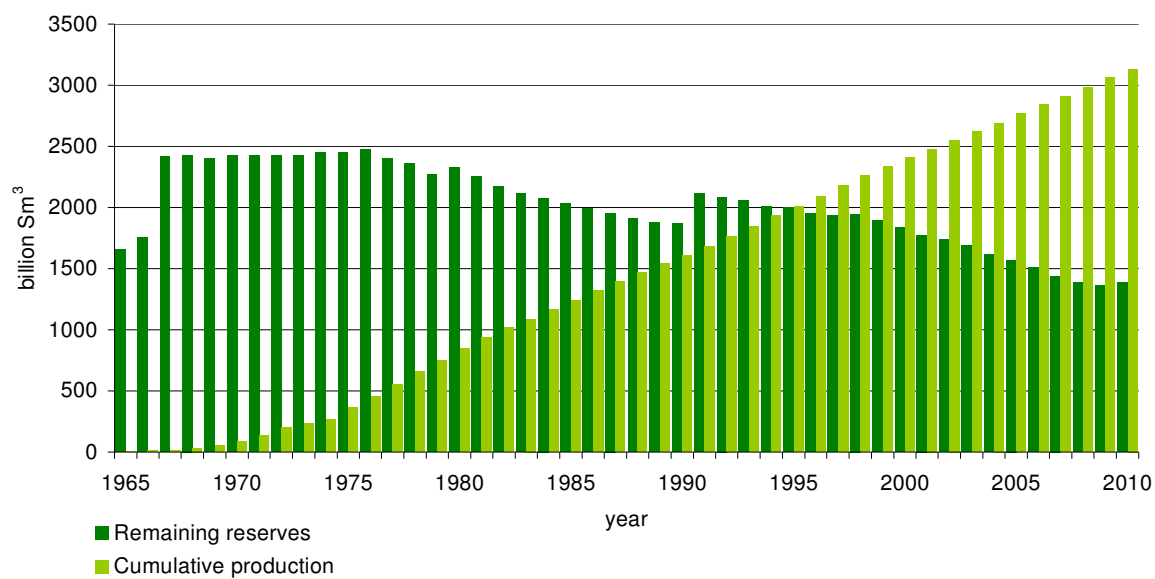
Gas production 1960-2009



GAS RESERVES AND CUMULATIVE PRODUCTION in billion Sm³

Year	Territory		Continental Shelf		Total		
	as at 1 January	expected reserves	cumulative production	expected reserves	cumulative production	expected reserves	cumulative production
1974		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
07		1 233	2 317.2	206	593.9	1 439	2 911.1
08		1 189	2 359.9	198	619.5	1 386	2 979.4
09		1 181	2 414.6	181	644.7	1 364	3 059.4
2010		1 206	2 464.9	184	668.1	1 390	3 133.1

Gas reserves and cumulative production (1 January), 1965 - 2010

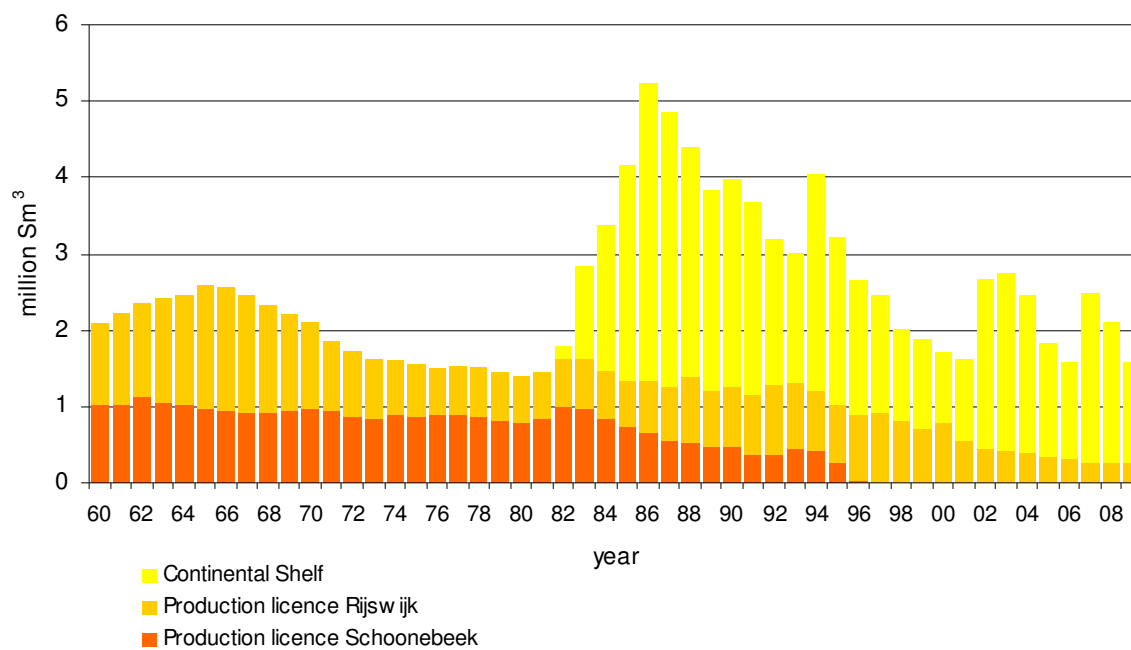


OIL PRODUCTION in 1 000 Sm³

Year	Production licence Schoonebeek	Production licence Rijswijk*	Continental Shelf	Total
t/m 1969	21 662.0	13.776 0	--	35 438.0
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
06	-	322.2	1 238.3	1 560.5
07	-	264.1	2 232.9	2 497.0
08	-	261.3	1 841.1	2102.4
09	-	260.0	1 295.7	1 559.7
Total	40 216.8	40 241.9	55 648.9	136 104.9

* including production from Botlek production licence since 2007.

Oil production 1960 – 2009

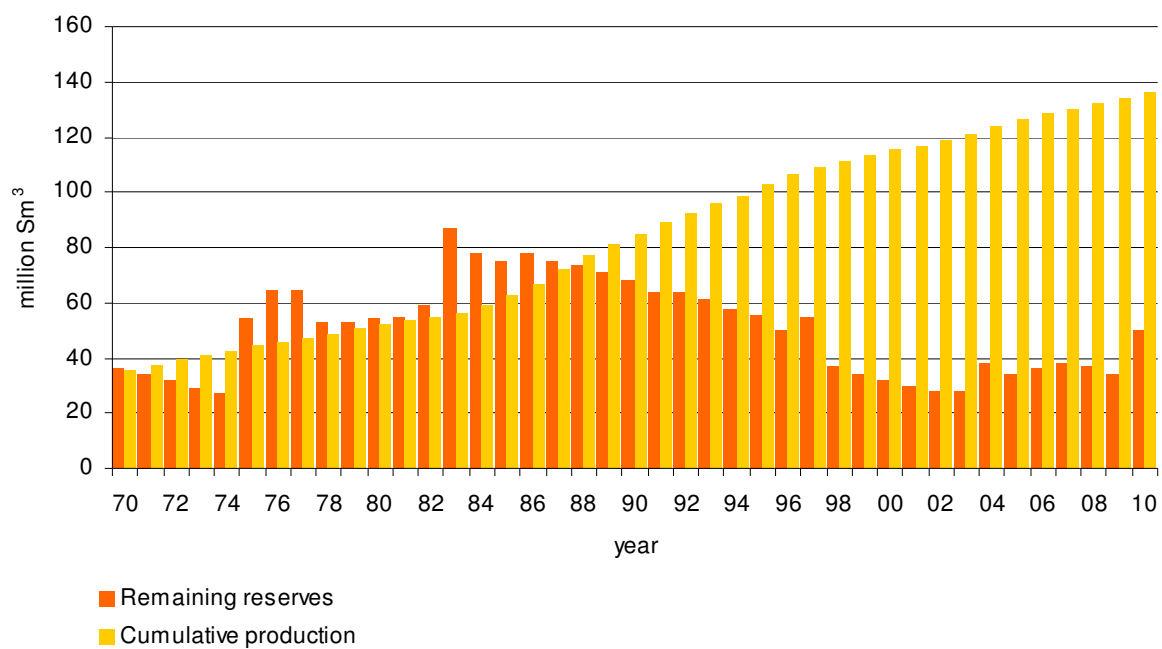


OIL RESERVES AND CUMULATIVE PRODUCTION in million Sm³

Year	Territory		Continental Shelf		Total		
	as at 1 January	expected reserves	cumulative production	expected reserves	cumulative production	expected reserves	cumulative production
1970			35.4				35.4
71			37.5				37.5
72			39.4				39.4
73			41.1	-	-		41.1
74	27		42.8	-	-		42.8
1975	40		44.4	14	-		44.4
76	51		45.9	14	-	65	45.9
77	49		47.4	16	-	65	47.4
78	46		48.9	7	-	53	48.9
79	44		50.4	9	-	53	50.4
1980	43		51.9	11	-	54	51.9
81	41		53.3	14	-	55	53.3
82	39		54.7	20	-	59	54.7
83	38		56.3	49	0.2	87	56.5
84	37		57.9	41	1.4	78	59.3
1985	41		59.4	34	3.3	75	62.7
86	42		60.7	36	6.1	78	66.8
87	40		62.1	35	10.0	75	72.1
88	41		63.3	33	13.6	74	76.9
89	39		64.7	32	16.6	71	81.4
1990	41		65.9	27	19.3	68	85.2
91	40		67.2	24	22.0	64	89.2
92	38		68.3	26	24.6	64	92.9
93	37		69.6	24	26.5	61	96.1
94	35		70.9	23	28.2	58	99.1
1995	34		72.1	22	31.0	56	103.1
96	33		73.1	17	33.2	50	106.3
97	33		74.0	22	34.9	55	109.0
98	12		74.9	25	36.5	37	111.4
99	8		75.7	26	37.7	34	113.5
2000	7		76.5	25	38.9	32	115.3
01	6		77.2	24	39.8	30	117.1
02	5		77.8	23	40.9	28	118.7
03	5		78.2	23	43.1	28	121.4
04	21		78.6	17	45.5	38	124.1
2005	19		79.0	15	47.6	34	126.6
06	23		79.3	13	49.0	35	128.4
07	24		79.7	14	50.3	38	129.9
08	24		79.9	13	52.5	37	132.4
09	25		80.2	9	54.4	34	134.5
2010	37		80.5	13	55.6	50	136.0

This table has been corrected for a cumulative error due to the rounding off of the annual figures.

Oil reserves and cumulative production in million Sm³ 1970 – 2010



NATURAL GAS REVENUES

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
03	4.31	1.74	6.05

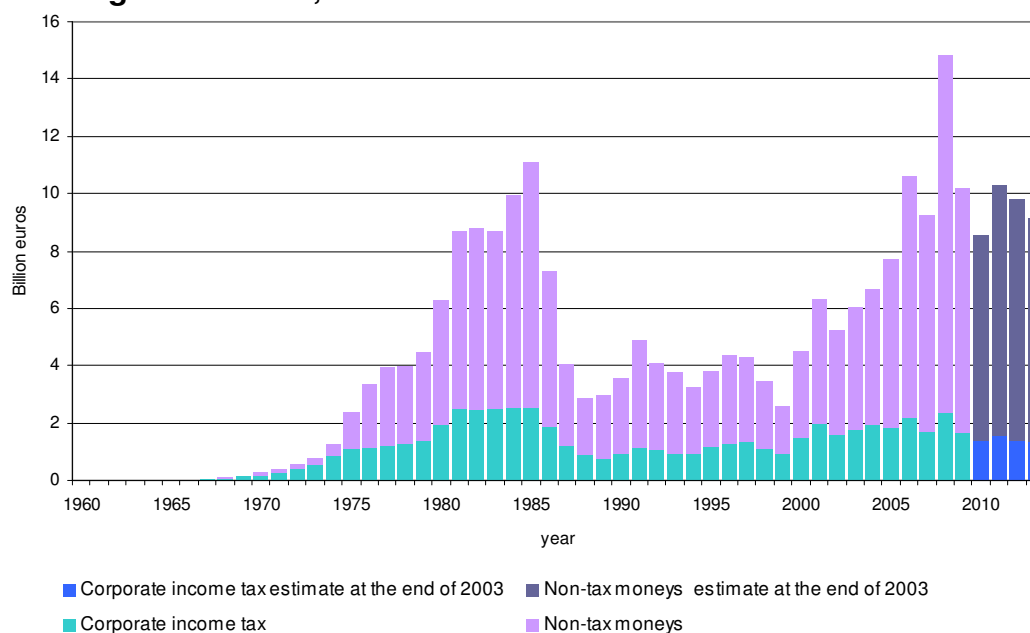
Year	Non-tax moneys* (10 ⁹ €)	Corporate income tax (10 ⁹ €)	Total (10 ⁹ €)
04	4.74	1.94	6.68
2005	5.88	1.80	7.68
06	8.43	2.18	10.61
07	7.53	1.68	9.21
08	12.45	2.37	14.82
09	8.50	1.65	10.15
Prognosis			
2010	7.15	1.35	8.5
11	8.75	1.55	10.30
12	8.40	1.40	9.80
13	7.85	1.3	9.15
14	7.7	1.25	8.95

The natural gas revenues are presented on a so called 'trans based'. This means that the revenues are allocated in the year in which the transaction actually took place. The actual receiving of the revenues by the state (cash based) takes place with a certain delay.

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

The estimation for the years 2010 up to and including 2014 are amongst others based on oil price scenarios of the Central Planning Bureau (CPB). For 2010 and 2010 the estimation is based on the oil price scenario of the Centraal Economisch Plan 2010. This implies an oil price of 77\$ per barrel for both these years. For the years thereafter the prices are based on the Economische Verkenning of September 2007. These prices are 65\$.

Natural gas revenues, 1960 – 2014



AUTHORITIES CONCERNED WITH MINING OPERATIONS

Ministry of Economic Affairs, Energy Market Directorate

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

Address: Ministry of Economic Affairs
Directorate-General for Energy and Telecom
Energy Market Directorate

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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.

Address: TNO Built environment and Geosciences – *National Geological Survey*
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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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Netherlands Oil and Gas Portal, www.nlog.nl

The Netherlands Oil and Gas Portal provides information about oil and gas exploration and production in the Netherlands and the Dutch sector of the North Sea continental shelf. It aims to help users to access information furnished by the Dutch government in an easy, comprehensible fashion. The portal was produced at the request of the Dutch Ministry of Economic Affairs and is being managed by TNO, *Geological Survey of the Netherlands*.

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.

6 Future reserves

Future reserves are reserves that have not yet been drilled by a well, but which have a certain possibility of success to contribute to the reserves in future times. The following datasets and definitions have been used to estimate the future reserves.

a. Prospect database

Database containing all prospective structures ("prospects") known to the Netherlands government which may potentially contain gas or oil (future reserves). Source of information to this database are the annual reports as submitted by the operating companies according to article 113 of the Mining act.

b. Prospect Portfolio

The selection of prospects from the Prospect database located within a "Proven Play" area.

c. Exploration potential

Cumulated "risky volumes" of all prospects in the prospect portfolio that meet certain selection criteria. In the series of reports on the exploration potential (published since 1992) the Prospect portfolio it was chosen to apply a threshold for the expected reserves volume per prospect. In certain reports the term "Firm Futures" has been used. This is in general synonymous to Exploration potential.

d. Potential futures in proven plays

Volume of gas expected to be present in not yet mapped structures in a proven play area.

e. Potential futures in not yet proven plays

Volume of gas expected to be present in valid, but not yet proven plays in the Netherlands.

f. Potential futures in hypothetical plays

Volume of gas in plays of which one or more of the basic play elements such as reservoir, seal and source rock are not yet known.

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.

Exploratief Potentieel

The model ExploSim is used to calculate the exploration potential. A detailed description can be found in:

LUTGERT, J., MIJNLIEFF, H. & BREUNESE, J. 2005. Predicting gas production from future gas discoveries in the Netherlands: quantity, location, timing, quality. In: DORE, A. G. & VINING, B. A. (eds) Petroleum Geology: North-West Europe and Global Perspectives—Proceedings of the 6th Petroleum Geology Conference, 77–84. q Petroleum Geology Conferences Ltd. Published by the Geological Society, London.

Calculating the exploration potential using a discounted cash flow model requires a set of parameters. The most imported parameters for the economic prospect evaluation are: Oil price (65\$), Euro/dollar exchange rate (1.4), Deduction of costs based on "Unit Of Production" and the standard GasTerra depletion rules.

Important scenario parameters are: the number of exploration wells per year (10) and the incorporation of the growth and decline of the infrastructure.

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.

Normal m³: Natural gas and oil reserves are expressed in m³ at a pressure of 101.325 kPa (or 1.01325 bar) and 0 °C. This m³ is defined as Normal m³ in Standard no. 5024-1976(E) of the International Organization for Standardization (ISO), and is normally abbreviated to Nm³.

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 Mega joules 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 m ³
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

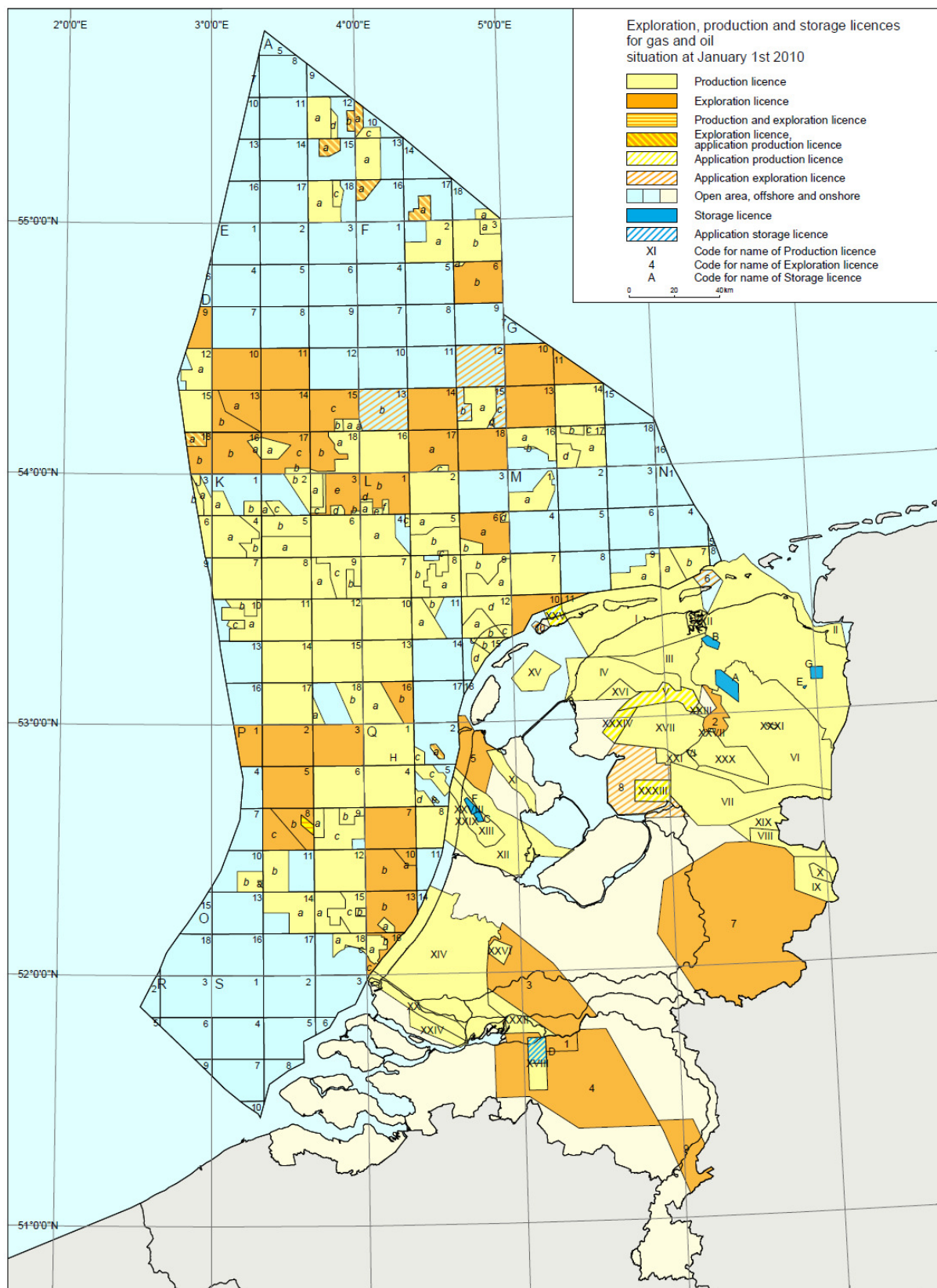
* In this energy conversion table, the energy value of a MWh electricity is to be understood as the energy content of a generated unit of electricity. In order to produce this unit of energy, more energy is necessary. The amount of energy required depends on the efficiency of the conversion.

APPENDICES

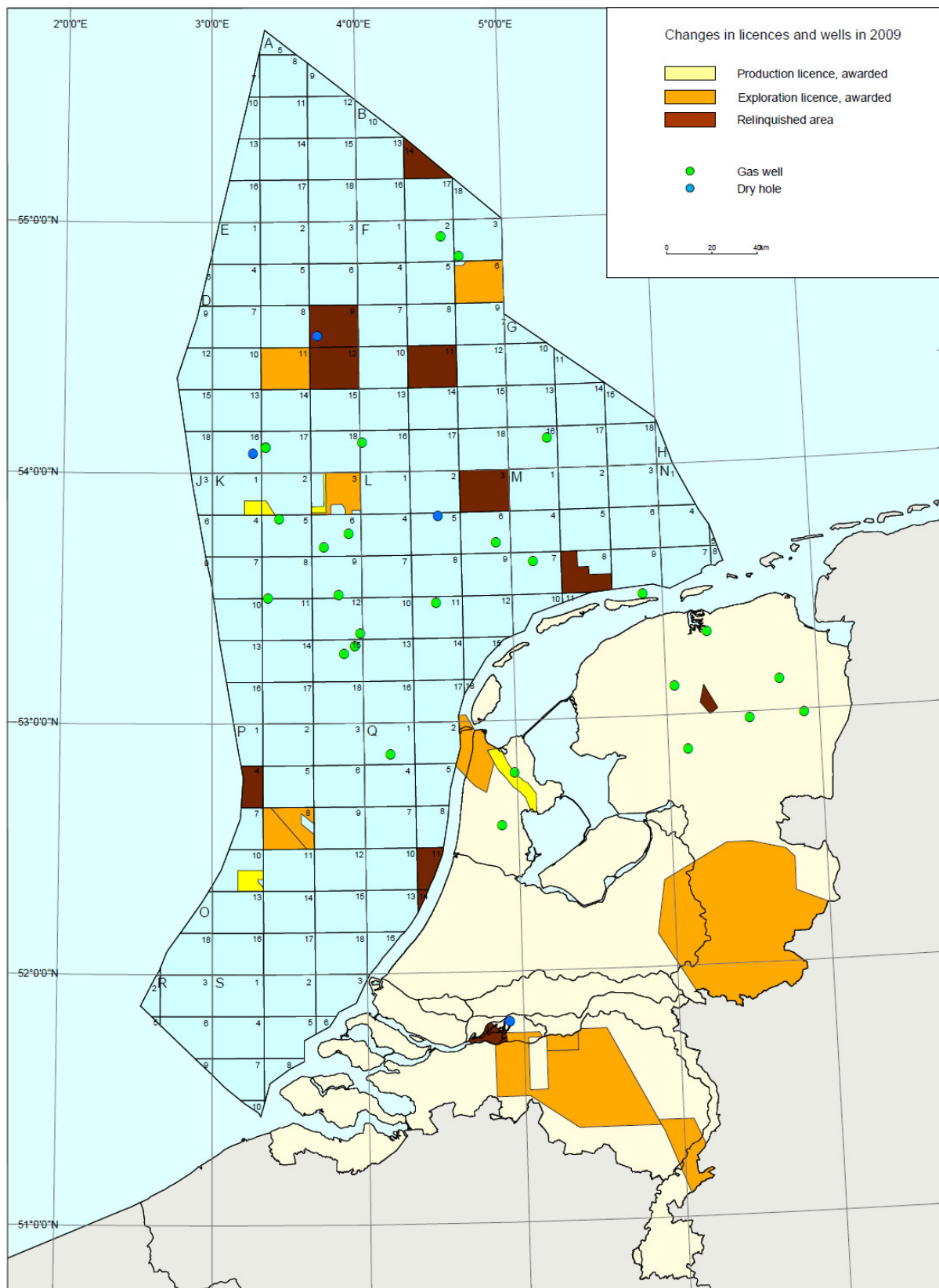
Exploration, production and storage licences as at 1 January 2010

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

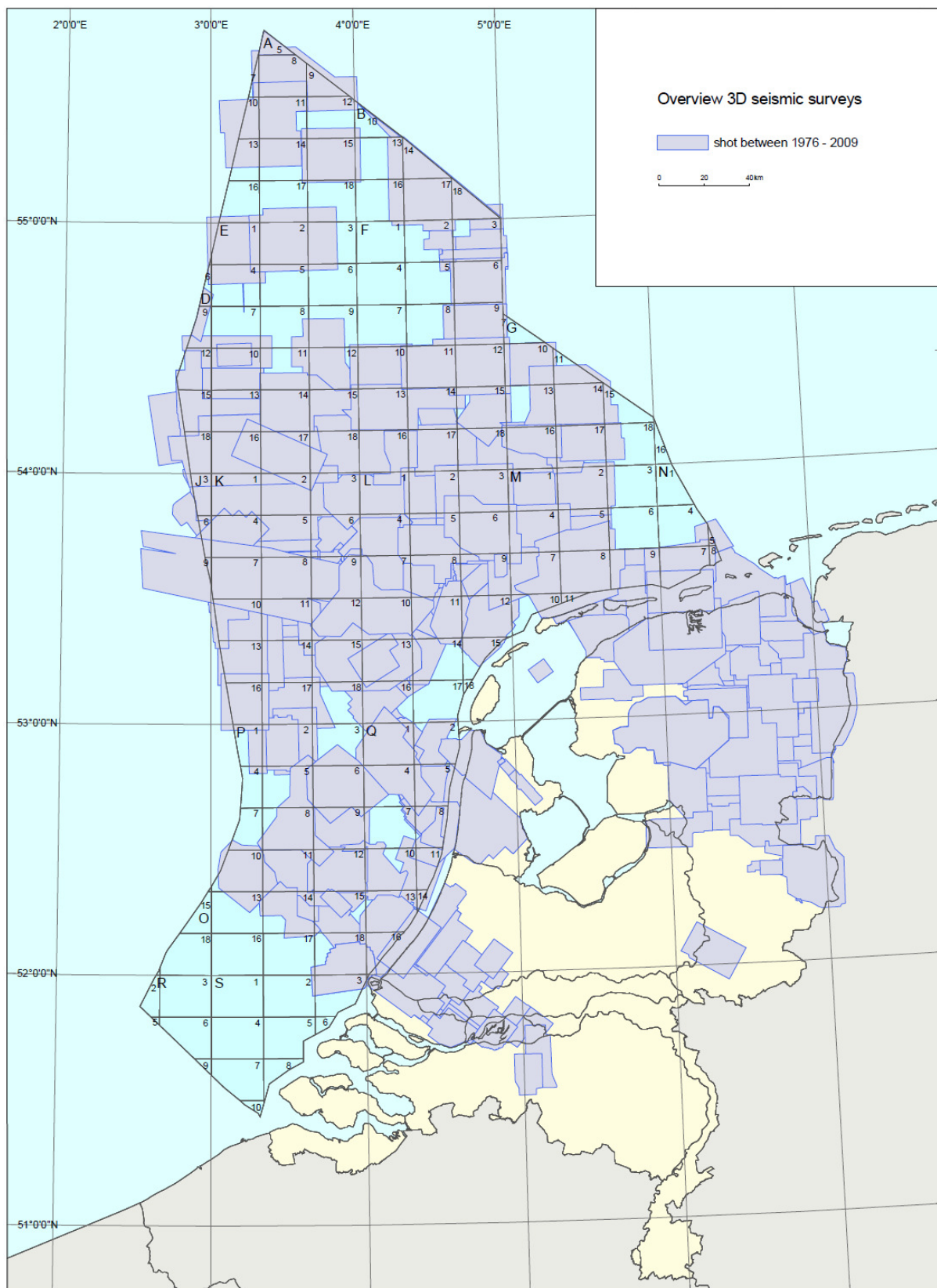
Exploration licence		Production licence	
1	Engelen	I	Noord-Friesland
2	Oosterwolde	II	Groningen
3	Utrecht	III	Tietjerksteradeel
		IV	Leeuwarden
		IX	Twenthe
		VI	Drenthe II
		VI	Drenthe II
		VII	Schoonebeek
		VIII	Tubbergen
		X	Rossum-de Lutte
		XI	Slootdorp
		XII	Middelie
		XIII	Bergen II
		XIV	Rijswijk
		XIX	Hardenberg
		XV	Zuidwal
		XVI	Oosterend
		XVII	Gorredijk
		XVIII	Waalwijk
		XX	Botlek
		XXI	Steenwijk
		XXII	de Marne
		XXIII	Donkerbroek
		XXIV	Beijerland
		XXIX	Alkmaar
		XXVI	Papekop
		XXVII	Oosterwolde
		XXVIII	Bergermeer
		XXX	Drenthe III
		XXXI	Drenthe IV
		XXXII	Andel III
Application for exploration licence		Application for production licence	
6	Schiermonnikoog-Noord	V	Akkrum
8	Noordoostpolder	XXV	Terschelling
10	Terschelling-West	XXXIII	Marknesse
		XXXIV	Zuid-Friesland III
Storage licence		Application for Storage licence	
A	Norg	D	Waalwijk-Noord
B	Grijpskerk		
E	Zuidwending		
F	Bergermeer UGS		
C	Alkmaar UGS		
G	Winschoten (stikstof)		



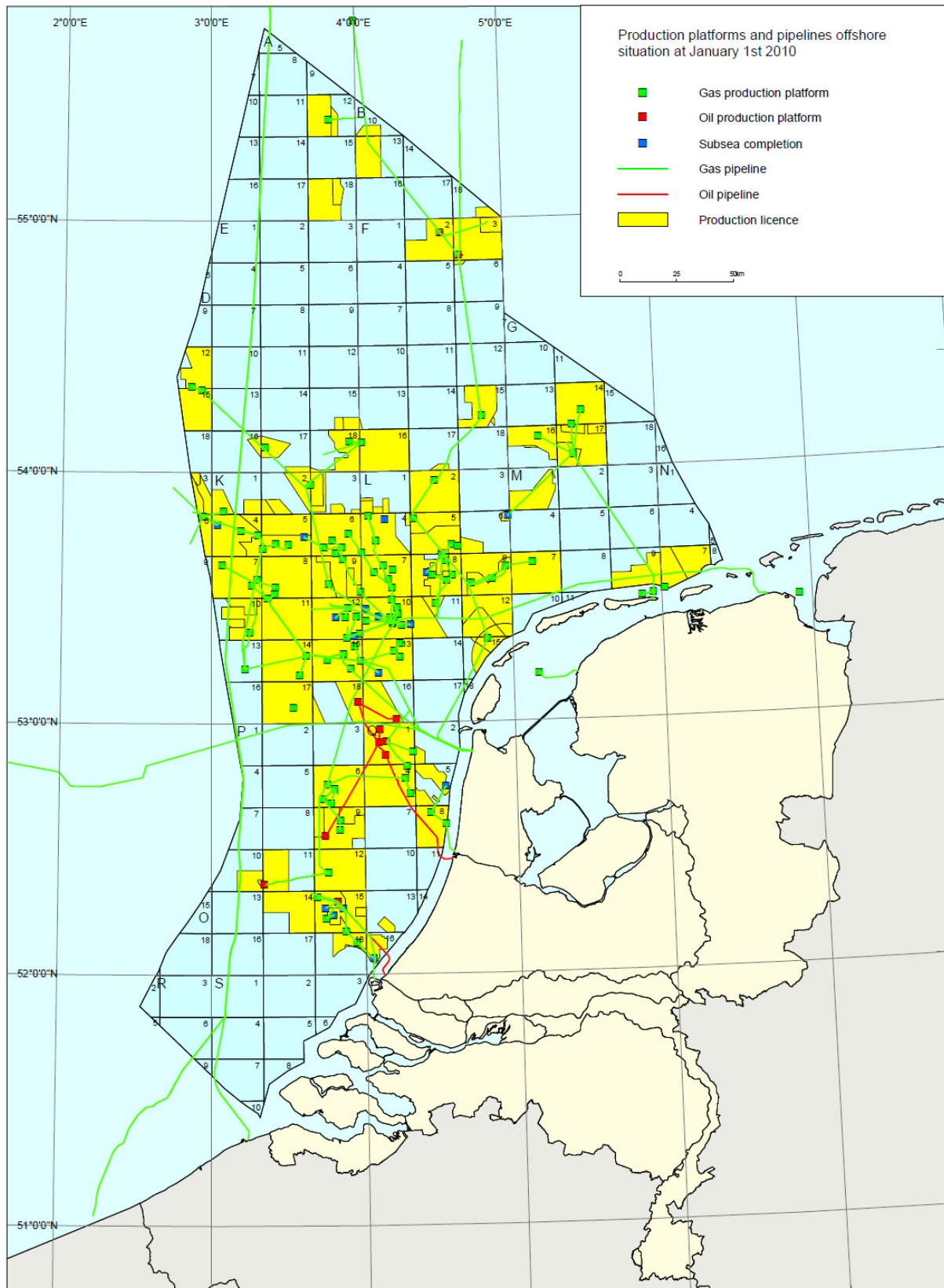
Wells and changes in licence situation during 2009



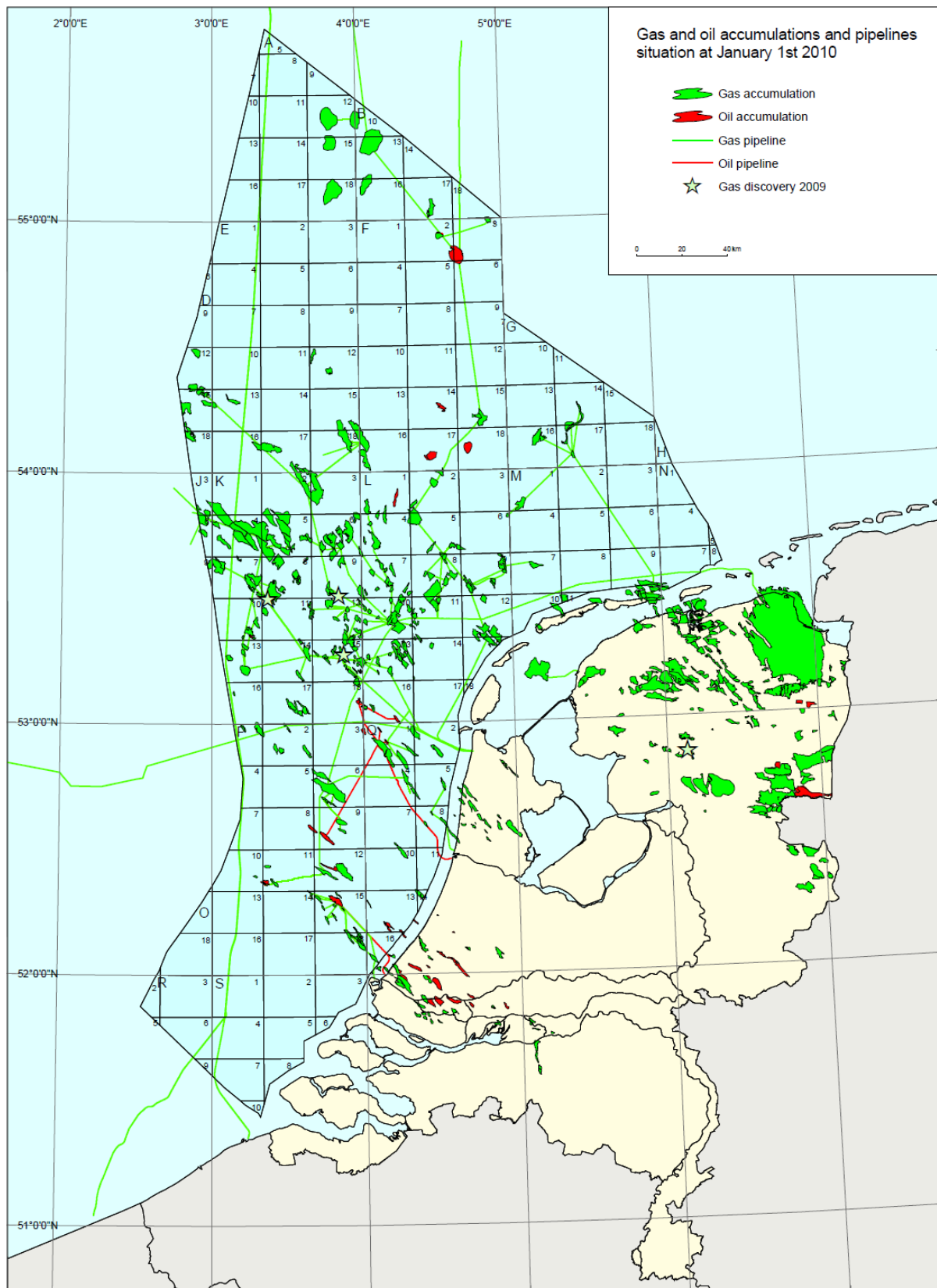
Summary of 3D seismic surveys



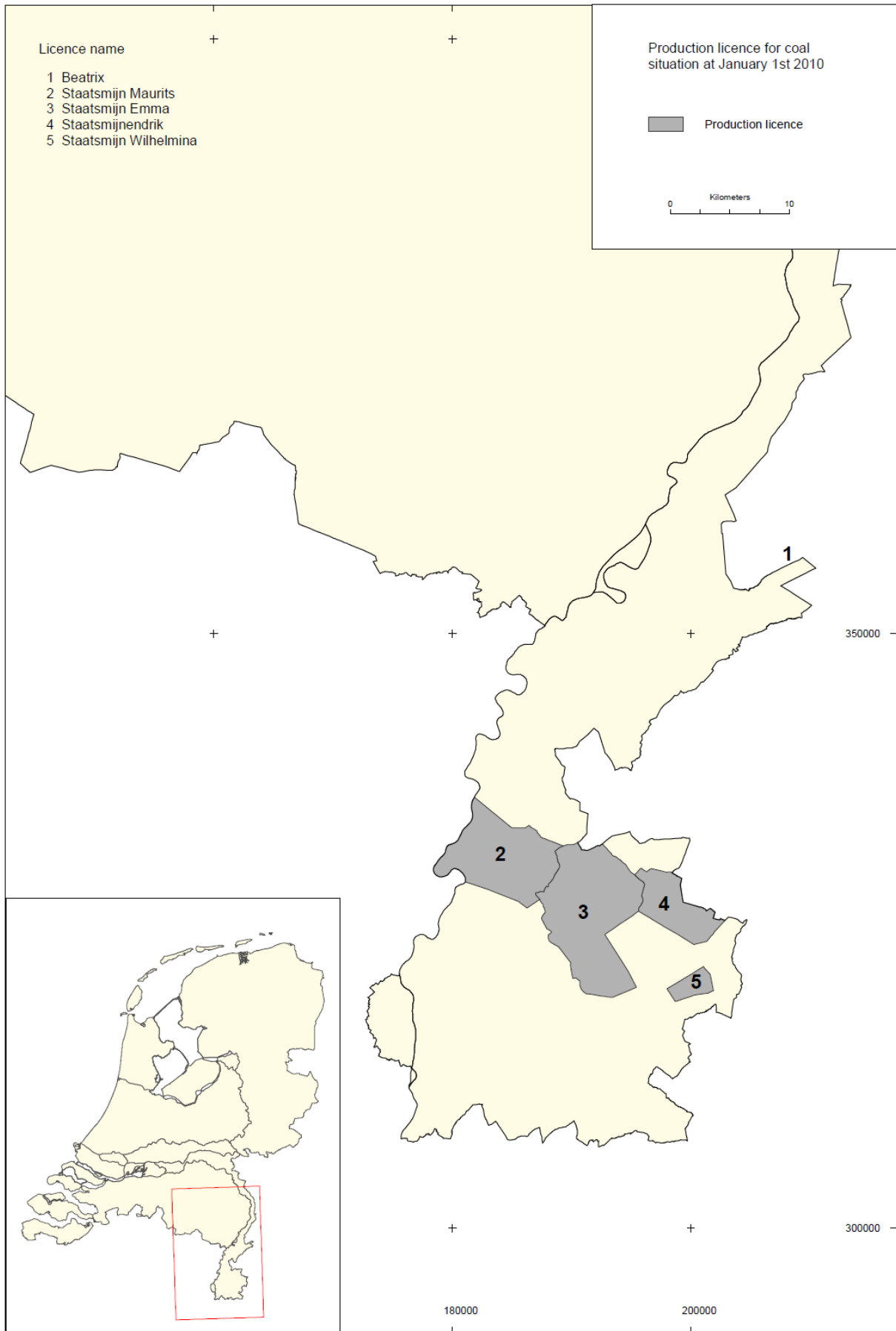
Production platforms and pipelines



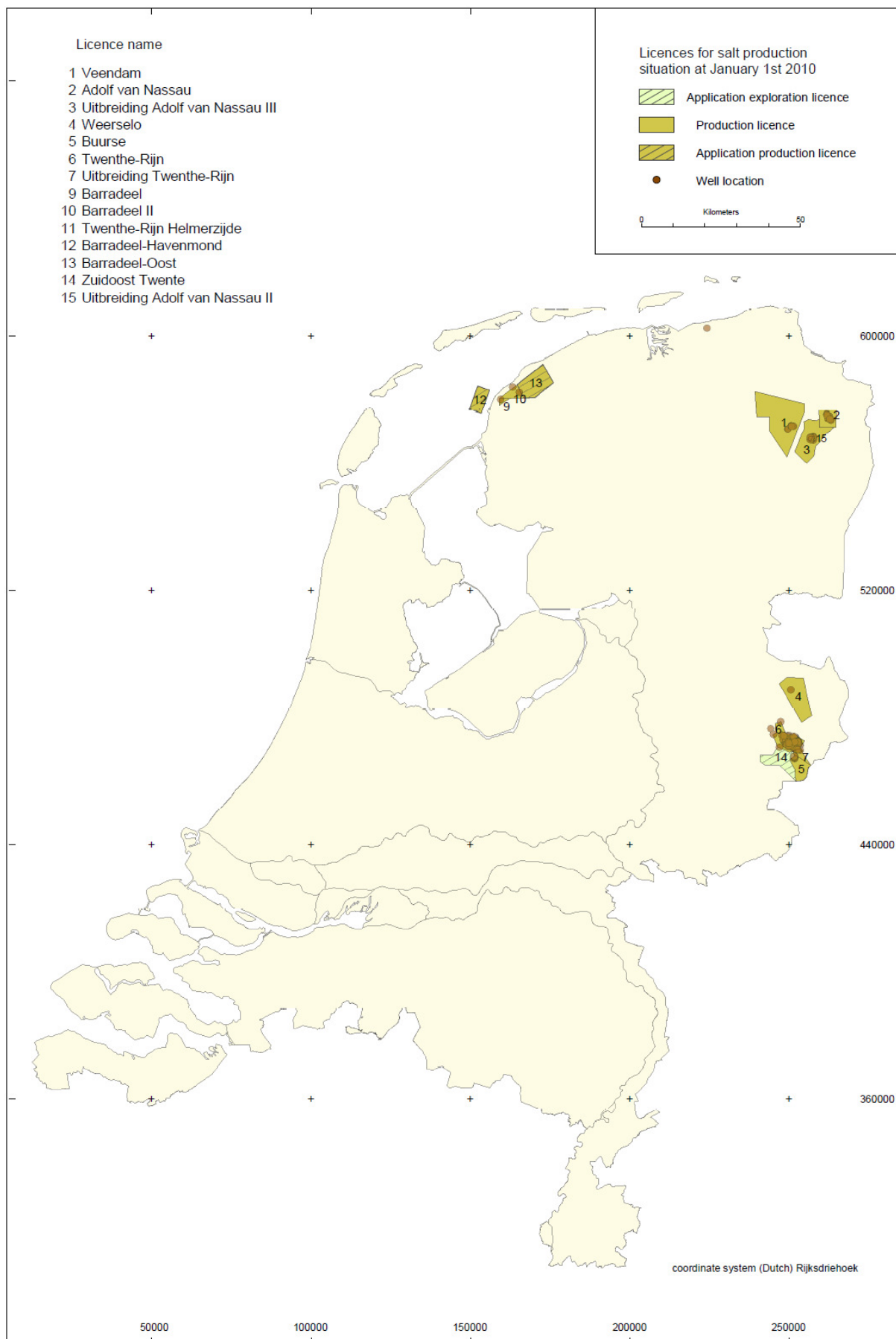
Gas and oil accumulations and pipelines as at 1 January 2010



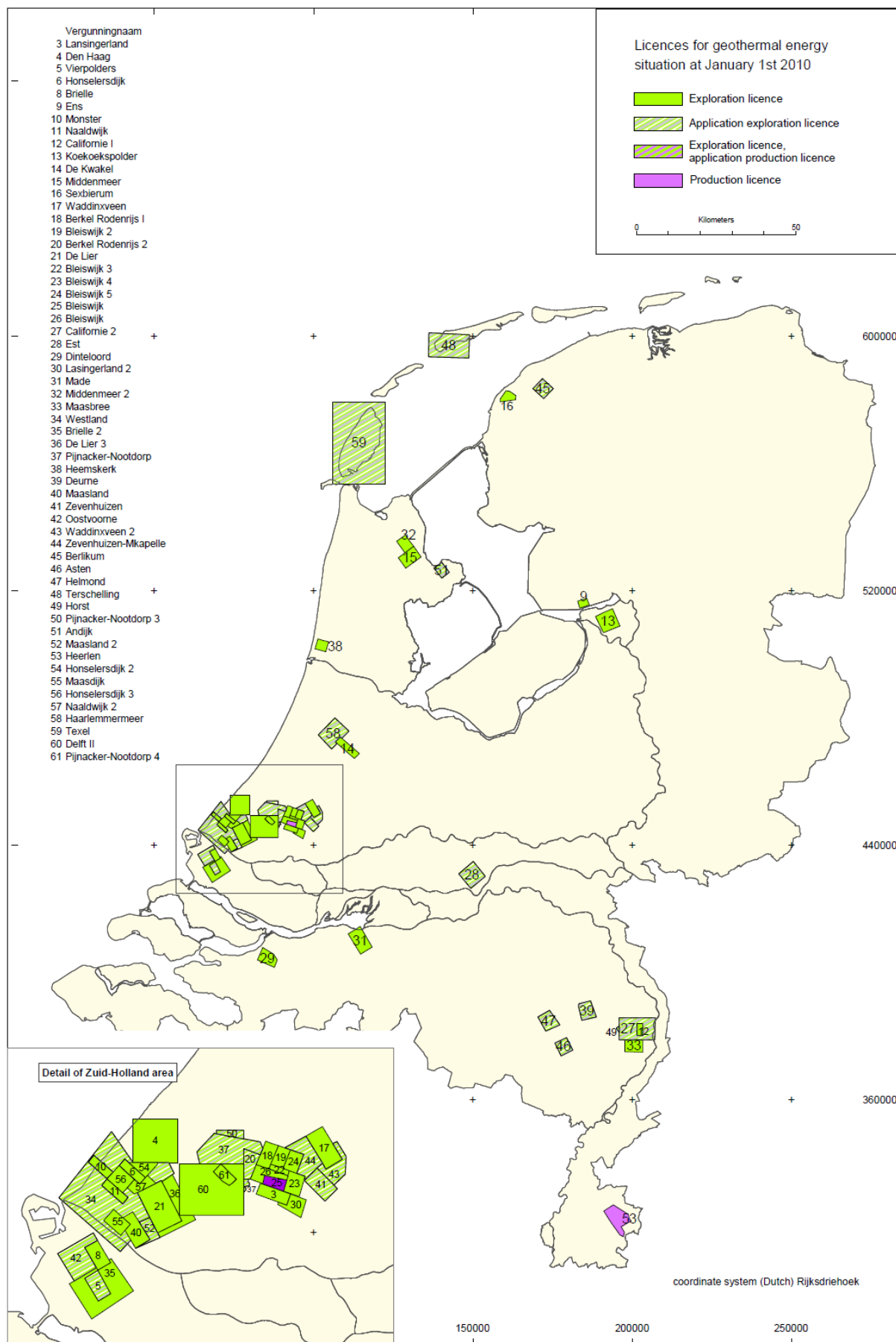
Coal production licences as at 1 January 2010



Rock Salt production licences as at 1 January 2010



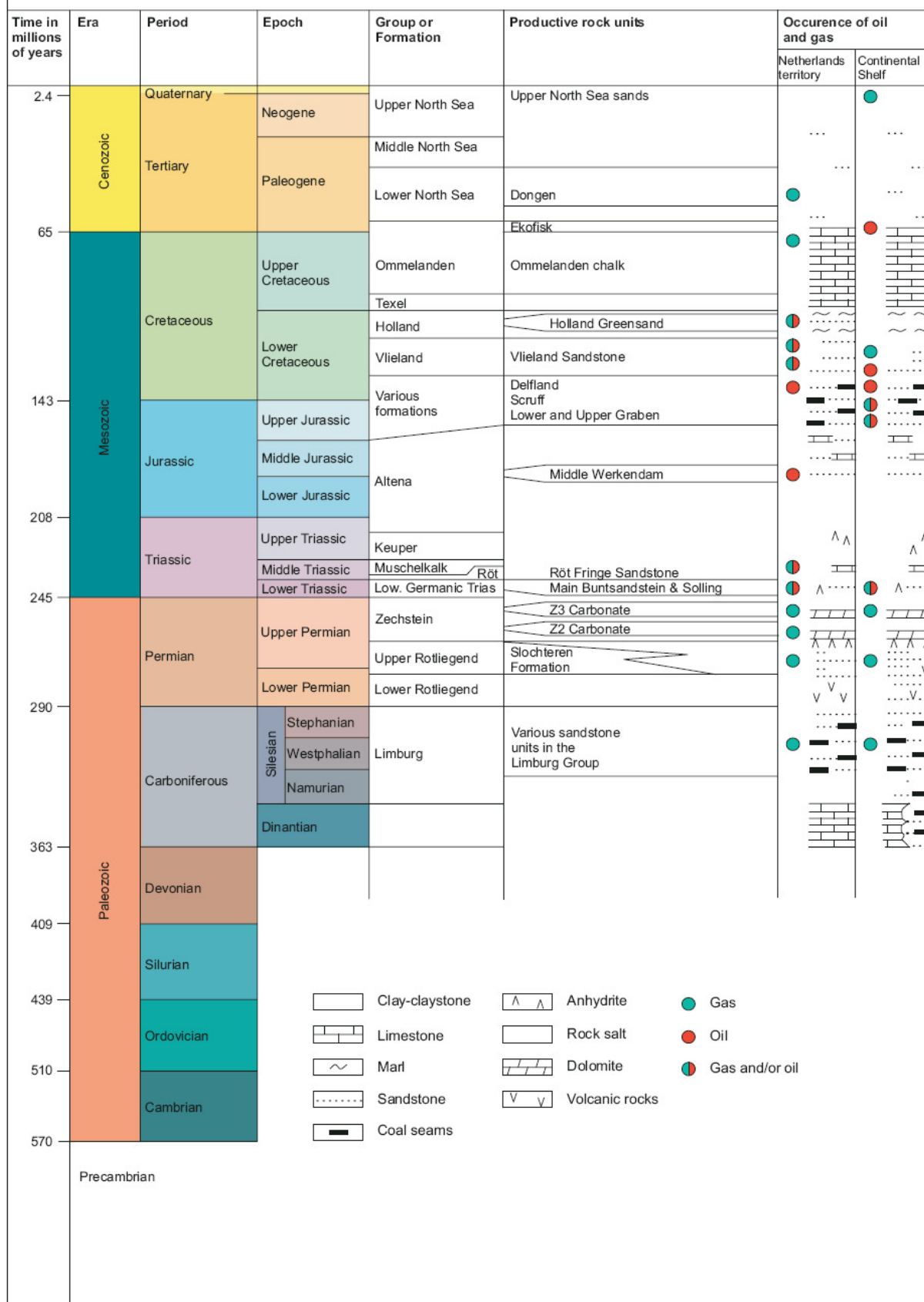
Geothermal energy licences as at 1 January 2010



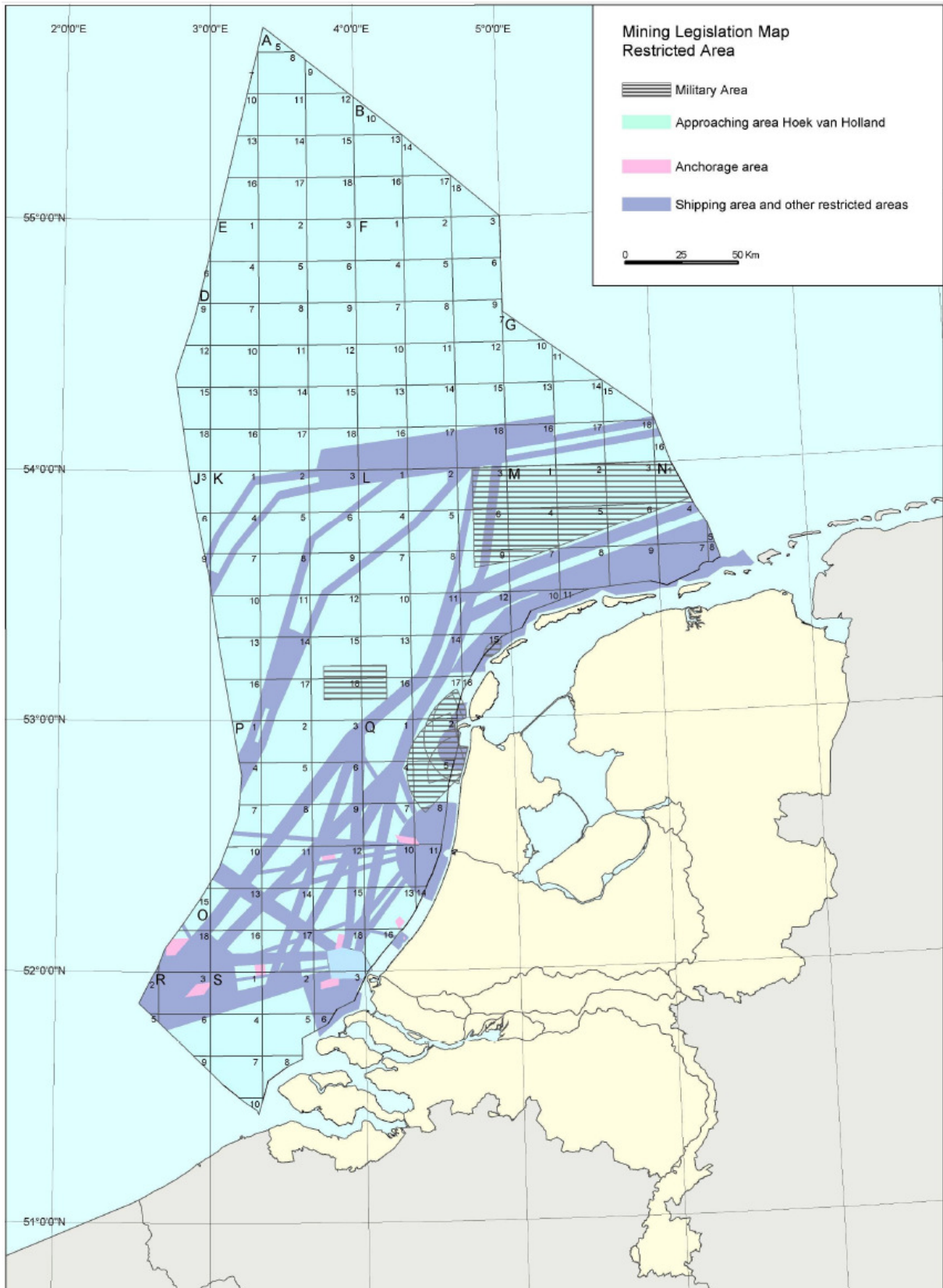
Geological time scale

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

June 2010



For more information:
www.nlog.nl