

# **RNB2025 General Guidelines**

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# 1 The Purpose of the Reporting, Timetable etc.

# 1.1 The Purpose of the Reporting

Pursuant to Section 50a of the <u>Regulations to Act relating to petroleum activities</u>, operating companies shall submit data for use in the revised national budget (RNB):

"The reporting shall include economical company data, projects, resource volumes and prognosis for production, costs and environmental emissions as specified by the recipient".

Every year within October 15<sup>th</sup>, all operating companies shall submit data and forecasts for their respective operated fields, discoveries, transportation- and utilization facilities (TUF). Note that the economical company data is not part of the RNB reporting and shall be reported to the Ministry of Energy (MoE) in accordance with their deadlines.

The reporting to the RNB comprises part of the basis for the Government's oil and environmental policies, the fiscal and national budget. These forecasts are important, and great emphasis is therefore placed on ensuring that high-quality reporting is provided within the stated deadlines.

The Norwegian Offshore Directorate (the Directorate) quality-assures and organizes the data reported by the companies. The Directorate also prepares its own estimates and classifies the resources based on its own knowledge and assumptions. Based on this, the Directorate updates the resource account for the Norwegian shelf and prepares overall forecasts. The forecasts are submitted to the MoE and forwarded to the Ministry of Finance.

The forecasts and the resource account are incorporated in several analyses and various publications, such as the "The petroleum resources on the Norwegian continental shelf" and the websites sodir.no and norskpetroleum.no.

The data received will be considered exempted from public disclosure pursuant to Section 13 of the Freedom of Information Act, and to Section 13 of the Public Administration Act, 1st paragraph number 2. Reserves, in-place resources and CAPEX associated to the reserves, are published per field on the Directorate's web site. Recoverable resources are published per reported discoveries.

# 1.2 Reporting Deadlines and Format etc.

# **Schedule**

The Directorate will make the following available to the operators by 1 September:

- Cover letter
- Reporting file
- Guidelines for completing the reporting file for the current RNB

The reporting file can be downloaded from L2S and from the Directorate's web site. The operators' deadline for submitting the reporting file to the Directorate is **15 October**. It is important that you deliver at the deadline, for the Directorate to meet subsequent deadline with the MoE.

The guidelines are provided in English. The reporting file is also in English but contains some Norwegian phrases. There are technical reasons for this, and there is no translation to English in the reporting file. Please contact the Directorate for any questions regarding this.

If there are **significant changes** to the reporting due to the **budgetary processes** in the production licenses' management committees after 15 October, please contact the Directorate as soon as possible to clarify whether there is a need to submit an updated reporting file.

# Reporting format

Data shall be reported electronically in accordance with the format given in the reporting file (macro enabled excel file). No changes shall be made in the layout of the spreadsheets, nor can there be any links to other spreadsheets in the file submitted to the Directorate.

The operators are requested to follow the naming of the reporting files as specified in **column I** in the Project list. The file name must not contain dates or any other information.

# 1.3 Changes from Last Year's Reporting

There are changes in the Guidelines in the following areas:

- Reporting of project start-up (DG4) has been clarified in chapter 6.3, according to scopeguidelines.
- Information on deposits is no longer available in the reporting file. The list of deposits per reporting object must be taken from Collabor8.
- Project attributes, chapter 6.10, updated to include Scope from Collabor8.
- Serial number is no longer a part of the reporting for projects.

# 1.4 Quality Assurance and Updates from the Operators

It is very important that the operator has carried out an internal check to ensure good quality of the data before submission to the Directorate. If the Directorate finds errors, lack of information or ambiguities in the received report, the file will be returned with comments entered in the spreadsheet marked "Tilbakemeldingsskjema" (feedback form). The operator must then submit a new, corrected report or respond to the comments.

The reporting file also contains several functions for quality assurance. For more information, see chapter 9 – Quality Assurance.

# 1.5 Contacts

If any questions concerning the reporting, please contact the persons stated below:

Area	Contact	Phone	E-mail
General questions			
	Morten Pedersen	51 87 64 92	RNB@sodir.no
Questions regarding the reporting			
file	Tom Andersen	51 87 62 75	RNB@sodir.no
Transmission of data,			
License to Share (L2S)	Magnar Haugvaldstad	51 87 60 74	RNB@sodir.no

The operator must also state a contact person with e-mail address and telephone number in each reporting file.

# 2 What to Report

# 2.1 Main Categories: Field, Discovery and TUF

The reporting distinguishes between field, discovery and TUF. The table below gives a definition of the categories.

Table 2-1 Definition of field, discovery and TUF

Category	Description
Field	One or more petroleum deposits, which together are comprised by an approved plan for development and operation (PDO) or for which exemption from the PDO requirement has been granted.
Discovery	One petroleum deposit, or several petroleum deposits collectively, which have been discovered in the same wellbore and in which testing, sampling or logging has established the probability of the existence of mobile petroleum (includes both commercial and technical discovery).  For discoveries in RC4F, 5F and 7F that are reported as part of a field, the resource estimates will not be published.  Several discoveries may be combined in one report, as a development project.
TUF	Transportation and Utilization Facilities includes pipelines, terminals and onshore facilities.

Designation of fields, discoveries, and TUF shall be according to the Directorate **Project list**, see chapter 2.3 - Project list. A drop-down list with names is available in the reporting file, see chapter 5 – Completing the spreadsheet "**Generell info og kommentarer**" (General info and comments).

# 2.2 Projects in Fields, Discoveries and TUF

Fields, discoveries, and TUF contain one or several **projects**. Project is a basic definition in the Norwegian Offshore Directorate's <u>resource classification</u> of petroleum (see chapter 3).

All recoverable petroleum volumes must be assigned to a project. A project represents the connection between a petroleum volume and the decision process, including budget allocation. A project will have a specific level of maturity regarding a decision to whether to proceed (i.e., to spend money). An additional project in a field or a mature discovery can represent development of one or more new deposits, or it can represent a specific **measure** to optimise production on a field.

Projects also apply to TUF. An additional project in a pipeline-reporting file can for example be a new pipeline or a new compressor. Each project should be placed in a resource class based on its maturity, see chapter 3.2 – Resource Classes.

Several projects can be included in one profile collection, but only if the projects are in the same resource class and the year for DG3 is the same. It could be relevant to distribute the reporting across multiple profile collections if the projects have different decision progress. For more information, see chapter 6 "Completion of the spreadsheet" – profile 1-15 (= profile collections).

For mutually exclusive projects (targeting the same volume), only the most probable project should be reported.

Delta profiles should be reported in a logical order such that they add up and give a total realistic production scenario. This applies to all projects with profiles, i.e., RC1-5. The assumptions for the scenario should be described in the text box.

# 2.3 Project List

This list of projects will form the basis for the reporting and is handled in a separate process. Changes to the Project list after September 1<sup>st</sup> must be agreed with the Directorate. For further information, see <u>Guidelines for the Project List</u>.

# 3 Resource Classification

# 3.1 Main Terms

Reporting shall be in accordance with the Norwegian Offshore Directorate's <u>resource</u> <u>classification</u>.

Below is a short description of terms used.

# **Historical production**

**RC0** includes petroleum quantities that have been produced (sold and delivered).

#### Reserves

Reserves comprise the remaining recoverable, marketable petroleum resources in RC1-3.

Petroleum quantities in projects in production should be reported in RC0+1. The term RC0+1 has been established to show the estimated original recoverable quantities from a project based on the current understanding of the size of the quantities not yet produced. Sold and delivered quantities are also included.

#### **Contingent resources**

**RC4, 5, 6 and 7** represent recoverable petroleum quantities in projects where a development decision has not yet been made.

# **Undiscovered resources**

**RC8** comprises undiscovered petroleum quantities in mapped prospects. The total risk-weighted recoverable resources in prospects that lie partly or completely within the field's/discovery's licensed area shall be reported.

#### **Effective date**

Expected resource class as of 31.12. of the current year shall be used as a basis. If a decision is expected by the end of the current year (31.12.), the project shall be reported in the resource class that results from this decision. An example of this is if a Plan for Development and Operation (PDO) is expected to be submitted to the authorities before the end of the year, the project shall be reported in RC3.

Note that for recovery projects, both volumes in-place and recoverable volumes shall be reported. Low, base, and high estimates shall be reported for the petroleum volumes. For projects with project category A, ref resource classification, no in-place volumes shall be reported.

Projects related to pipelines and terminals are classified similar to the classification of recoverable resources, according to decision status (planned, decided, approved).

# 3.2 Resource Classes

An overview and the main tables from the Directorate's resource classification are shown below.

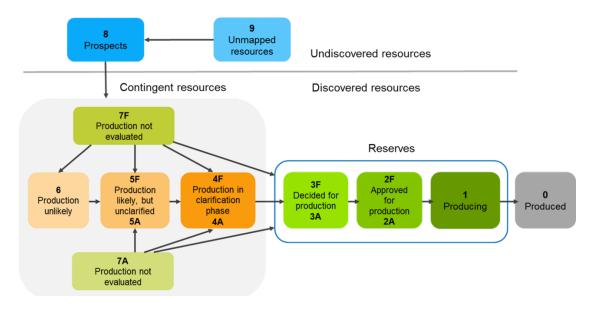


Figure 3-1 Overview of resource classification

Table 3-1 Overview of classes, resource classes (sub-classes), project categories and uncertainty categories

Class	Resource Class (Sub-class)	Resource Class Code	Project category	Uncertainty - category
	Produced	RC0		
	In production	RC1		L, B, H
Reserves	Approved for production	RC2	F, A	L, B, H
	Decided for production	RC3	F, A	L, B, H
Contingent	Production in clarification phase	RC4	F, A	L, B, H
resources	Production likely, but not clarified	RC5	F, A	L, B, H
	Production unlikely	RC6		L, B, H
	Production not evaluated	RC7	F, A	L, B, H
Undiscovered	Prospects	RC8		L, B, H
resources	Unmapped resources	RC9		L, B, H

Table 3-2 Classes and resource classes

Class	Code	Resource	Definition	Explanation
		(Sub-class)		
	RC0	Produced	Petroleum that has been produced and sold.	The resource class comprises volumes that have been produced for sale from fields in production and fields that have been shut down.
				Petroleum that has been delivered free of charge or as compensation to another party is not regarded as having been sold. If this volume is subsequently sold, this will be included in RCO from the other party.
				Produced volumes are not considered reserves but are used to estimate original reserves.
	RC1	In production	Remaining recoverable and marketable petroleum volumes in projects that	Includes petroleum that is expected to be sold from fields that have started producing.
			have started production.	Also includes remaining petroleum volumes in fields that are temporarily shut down.
				Volumes that have been purchased and are expected to be sold at a later date, shall not be included. Petroleum that was received free of charge, or as compensation from another party and that is expected to be sold at a later date, shall be included in this classification.
	RC2	Approved for production	Recoverable and marketable petroleum volumes in projects that are approved but have not yet started production.	Mainly comprises petroleum in fields that are under development and have an approved PDO or PDO exemption.
				For operational fields, major projects (e.g., further development under a new or changed PDO) shall be included here as a separate project.
Reserves				Optimisation within approved plans, such as measures for improved recovery that were adopted by the licensees, but have not been implemented, can be classified as separate projects and be included in this resource class.
	RC3	Decided for production	Recoverable and marketable petroleum volumes in projects that the licensees have decided to	Projects that have been given the go-ahead by the licensees, but do not yet have the authorities' PDO approval or a PDO exemption.
			implement, but without the necessary authority approvals	The project must be reported in this resource class when implementation (BOG) of the project has been decided by the licensees.
				This resource class also contains additions from deposits that are not covered by an already approved PDO for fields with resources in RC1 and 2 if the implementation decision (BOG) has been made and authority approval is required.
				This resource class is also used for petroleum volumes in fields that will be sold at a later date without substantial investments, but where the production schedule has not yet been approved by the authorities. This is mainly gas that, when recovered early, will reduce the opportunities for optimal oil production.

Class	Code	Resource Class (Sub-class)	Definition	Explanation
	RC4	Production in clarification phase	Recoverable petroleum volumes from projects in the planning phase, where concrete activity is ongoing to clarify how to execute production.	The project must be reported in this resource class when a decision to concretise (BOK) has been made, and up to the decision to implement (BOG).
	RC5	Production likely, but not resolved	Recoverable petroleum volumes from projects where production is likely, but not resolved.	The project must be reported in this resource class when a decision to initiate project (BOI, start of feasibility studies) has been made, and up to the decision to concretise (BOK).
Contingent resources	RC6	Production is unlikely	Discovered petroleum volumes in discoveries where, even in the long term, profitable production is not expected.	This category contains petroleum volumes that are considered too small to be relevant for production, or that require considerable changes in technology, change in access to infrastructure, significantly higher price expectations, etc., in order to ensure profitable recovery.
8	RC7	Production not evaluated	Recoverable petroleum volumes in immature projects that only have a preliminary resource estimate.	Applies to discoveries where a discovery evaluation report has not yet been prepared, or that are considered too immature to be moved to another RC for other reasons.  Also includes petroleum volumes in potential projects to increase the recovery in fields and discoveries that already have resources in more mature resource classes.  The projects are moved from this RC when a decision to initiate project ROL is made or when the project is
				initiate project BOI is made, or when the project is shelved.
ources	RC8	Prospect	Estimated, but unproven recoverable petroleum volumes in mapped prospects.	The prospects have an associated discovery probability that describes the possibility of proving petroleum volumes upon drilling.  Risk-weighted estimates that represent calculated
ered resour				petroleum volumes multiplied by the discovery probability for each prospect are used for aggregation.
Undiscovered res	RC9	Unmapped resources	Estimated, but unproven recoverable petroleum volumes associated with geological plays.	Plays contain potential petroleum volumes associated with leads, as well as the number of prospects that can be mapped in the future (postulated prospects).
				Resource estimates reflect estimated amounts multiplied by the discovery probability.

Table 3-3 Project categories<sup>1</sup>

Project category	Definition	Explanation
F	First development project for a deposit	A project is classified as <b>project category F (First)</b> when it is the first development project for one or more deposits. Used for projects in RC2,3,4,5 and 7.  Projects with additional resources in new deposits in fields/discoveries must also be classified as F (First) when inclusion of the resources will increase the petroleum volumes in place in the field/discovery.  Projects must have a PDO or PDO exemption.
А	Project to optimise the recovery from a deposit	A project is classified as <b>project category A (Additional)</b> when recoverable petroleum volumes associated with the project lead to improved recovery of petroleum in place (increased recovery rate) in deposits that are in production or with projects classified as F (First). Used in RC2, 3, 4, 5 and 7.  The resource volumes in A-projects may be negative in some instances, for example when improved oil recovery requires gas injection, or where improved recovery entails an accelerated production. Also includes projects that can extend production by reducing costs.

<sup>&</sup>lt;sup>1</sup> Project categories are not used for projects in RC0, 1, 6, 8 and 9

Table 3-4 Uncertainty categories

Uncertainty category	Definition	Explanation
Low estimate (L)	Low estimate of petroleum volumes that are expected to be recovered from a project.	The low estimate must be lower than the base estimate. The probability of being able to recover the indicated estimate or more must be shown (e.g., P90).  Compared with the base estimate, the low estimate should express potential negative changes with regards to mapping of the reservoir, reservoir/fluid parameters and/or recovery rate.
Base estimate (B)	Best estimate of petroleum volumes that are expected to be recovered from a project.	The base estimate must reflect the current understanding of the scope, properties, and recovery rate of the reservoir.  The base estimate will be calculated using a deterministic or stochastic method. If the base estimate was calculated using a stochastic method, the base estimate shall be stated as the expected value.
High estimate (H)	High estimate of petroleum volumes that are expected to be recovered from a project.	The high estimate must be higher than the base estimate.  The probability of being able to recover the indicated estimate or more must be shown (e.g., P10).  Compared with the base estimate, the high estimate should express potential positive changes with regards to mapping of the reservoir, reservoir/fluid parameters and/or recovery rate.

#### 3.3 Problem Areas

# 3.3.1 Clarification of the distinction between contingent resources and reserves

Additional volumes in field projects must be classified either as reserves or as contingent resources.

The following criteria shall be applied to classify projects as **reserves**:

- 1. The project is regarded as normal optimization within approved plans, e.g.:
  - Better reservoir management
  - Improved sweep
  - Well maintenance/re-completions
  - 4D seismic
  - Improvements to existing production facilities (improving robustness/removal of bottlenecks)
- 2. Well projects that have a **high probability** of implementation, where the following conditions are met:
  - Wells can be drilled from an available drilling facility
  - Wells can be drilled with available technology
  - Wells that are a part of a long-range plan for future activity within approved drainage areas

The probability of implementation should take into account:

- Economy of drilling targets based on expected production, and all costs related to drilling and maintenance of drilling facilities.
- Technical feasibility of drilling with respect to depleted reservoir, faults, rock mechanical problems, complex reservoir, and well integrity.
- Availability of drilling facility without additional major investment. For investment in new drilling facility, the date when the new facility will be completed, should be taken into consideration.
- Availability of infrastructure, such as sub-sea installations and risers.

Quantities from all projects with wells mentioned above shall be reported as reserves in resource class, RC 0+1, 2 or 3. If the operator wishes, quantities from well projects classified as reserves can be reported in separate consistent profiles, as follows:

- RC0+1: Quantities from projects with wells in production
- RC2: Quantities from projects with wells with approved budget
- RC3: Remaining quantities from projects with wells that can be reported as reserves

Wells planned to be drilled, but do not meet the criteria above, will be linked to the quantities of petroleum which are classified as **contingent resources** in resource class 4, 5, 6 or 7.

Examples of other projects with contingent resources on fields are:

 Recovery methods under evaluation or significant expansion of existing recovery methods that will yield extra volumes and a higher recovery factor if implemented (project category A), or

- Segments/ parts of the reservoir not currently PDO-approved, and which will yield increased STOOIP/GIIP (project category F), or
- Changes to new form of operation, new or modified facility that will yield higher/accelerated production and possibly also lower costs.
- Projects that will result in significantly longer lifetime for the field.

In all cases, the project must undergo a defined decision process with milestones/decision gates, and costs must be included.

The **reserves** reported should be considered profitable, assuming long-term assumptions regarding product prices and operating costs. Projects where most of the investments are sunk costs should be reported as reserves when total cash flow, including contingent resources, are expected to be profitable.

At one stage, continued operation for a field will become unprofitable. Dependent on other possibilities for continued operation of the field, the so-called uneconomic tail production should be reported as a contingent resource. If there is a reasonable probability for continued operation based on contingent or undiscovered resources, not restricted to current license acreage, this should preferably be reported in RC5A. If more immature, the resources should be reported in RC7A.

#### 3.3.2 RC6 - fields and discoveries

RC6 is used for deposits which, even in the long-term, probably cannot be recovered profitably, and for resources in minor, non-tested discoveries where recovery is not very likely. If the deposit is a supplementary resource to a field, it is reported under the field. Stand-alone discoveries are to be reported separately.

Improved recovery measures on fields (project category A) which have been evaluated and found to be unprofitable, shall not be reported in RC6. If resources can be realized with other measures later, they could be included in RC7A.

# 3.3.3 Undiscovered resources in/nearby fields and discoveries

Undiscovered recoverable resources in or nearby fields and discoveries will either comprise prospects or undrilled segments in the field/discovery, which for different reasons are not defined as a separate prospect.

The main rule is that undiscovered, recoverable risked volumes should be reported in RC8. Risked volumes are calculated by multiplying expected recoverable petroleum quantities, given a discovery, by the probability of making a discovery. The total risked volume that lies completely or partly within own licensed area and can be recovered in connection with the field/discovery, shall be reported. Prospects that extend over the borders of the production licence, or into adjoining production licences, are to be reported as total risked volumes. In some cases where the discovery probability is high, and the volumes are included in the base of a development solution, undiscovered resources may, in agreement with the Directorate, be categorised differently.

# 4 The Reporting File

The reporting file has been prepared in a macro enabled excel file. The file contains several built-in macros, and it contains multiple calculations and linking of data between sheets in the file. Furthermore, information is uploaded to in-house databases. It is therefore important that the structure of the file remain unchanged.

No changes shall be made in the layout of the spreadsheets, except for entering data in the white cells.

Emphasis has been placed on validation of data in the reporting file. This takes place in two ways, by:

- controlling the entries in cells using list boxes/drop-down menus and other validation of data
- consistency checks of the data after entry

The consistency checks can result in various messages. Possible errors must be checked and corrected, or comments regarding the cause of the message must be provided.

# 4.1 Spreadsheets in the Reporting File

The table below shows the spreadsheets in the reporting file.

Table 4-1 The spreadsheets in the reporting file

Names of the sheets	Purpose	Comments
Innledning Information to the report issuer		No data to be filled in.
Generell info og	Basis information on fields, discoveries,	Resource estimates for RC6-8.
kommentarer	TUF. For fields and discoveries, resource	Main reasons for changes in reserve estimates.
	information and information on	New Profile collections (Profilsamlinger) can be
	exploration activity should also be	opened from this file.
	included.	
Tariffinntekter	Give an overview of income from use of	Should not be used for discoveries.
	facilities by others.	
Cost Control	Quality assurance.	Provide some data/comments.
Profilsamlinger	Yearly data, resource information and	Projects in RCO, 0+1, 2, 3, 4 and 5 should be
(Profil_1, _2,	information on projects that has not been	reported in the profiles.
_15)	decided and production start (DG4).	Sheets can be opened from "Generell info og
	("Project attributes")	kommentarer" and must NOT be removed.
	Consistency checks.	Please use Profil_15 for commercial data.
Profil_Total	Sum of all profile collections	No data to be entered. Can be opened by the
	Total overview – field reporting.	report issuer.
Månedsdata	Monthly values for the next calendar	
	year.	
Ressursoversikt	Summary of data from the sheets -	No data to be entered.
	Generell info og kommentarer og Profil	
	samlinger.	

Gassco	Provide information to Gassco	This is the front page to the Gassco main data
		collection (GMDC). Other reporting sheets can
		be opened from this page. Separate guidelines
		from Gassco are available at company specific
		team-sites.

# 4.2 General Information – How to Complete the Reporting File

The operators are requested to fill in the comment boxes in the reporting file. It is important for us to have updated information on the projects as well as changes in the forecasts for each project, and it is also very useful in the quality control of the data sets.

Regarding discoveries in RC4 and 5, the operator is requested to use the general comment box to briefly describe the concept.

# The spreadsheet colour codes:

Do not complete	
Do not complete	
Optional to complete	
Must/can be completed	

- Grey and blue cells shall not be completed by the operator. Grey and blue cells contain either information obtained elsewhere in the reporting file, or data calculated from submitted data. Some cells are shaded grey depending on resource class or project type. Other colours might be in use to highlight new items in the file.
- Light grey cells are optional to complete. In some cases, data are available even though the maturation level suggests otherwise. These cells are shaded light grey depending on resource class.
- White cells shall/may be completed by the operator. Some cells will generate an error message if invalid values are entered.

#### Recommended sequence for entering data.

Start completing the file at the top of the spreadsheet "Generell info og kommentarer" by completing the area "1) General information". For fields and discoveries, then proceed to the tables under "2) Resource overview" to enter (2a) resources in place for all resource categories and (2b) recoverable resources in RC6-8. Recoverable resources and reserves in classes lower than 6 must be stated directly in the relevant profile collection. Profile collections are opened as needed.

During completion, enter the data cell by cell or paste in the data from other sources. Note that the paste function is limited. There are locked cells with formulas in the spreadsheets which make it impossible to paste in larger areas, try pasting lesser amounts of data at a time.

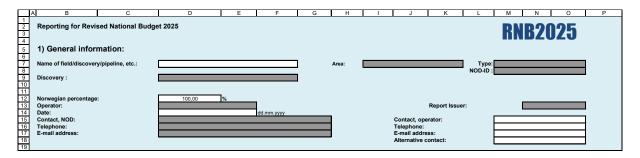
The function "Edit – Paste Special - Values" must be used when pasting data into the spreadsheets.

Do not use the command "Ctrl-V" or other methods, this will cause problems.

# 5 Completing the Spreadsheet "Generell info og kommentarer"

# 5.1 Completing "General information":

First, enter **the name of the field/discovery/TUF**. Pick a name from the drop-down list in cell D7. It contains official names for fields and discoveries as well as designations for pipelines and facilities. When a name is selected, many of the cells in this area will be filled in automatically, e.g. information about the contact in the Directorate. If the correct name is not in the drop-down list, please contact the Directorate.



# Then complete:

- Norwegian part (per cent) The Norwegian percentage (normally 100 per cent) of the
  resources shall be stated. For those cases where the resources extend into another
  country's continental shelf, use the latest official allocation of resources between
  Norway and the other country.
- **Date**: The date of completion of the reporting file should be entered in the format dd.mm.yyyy.
- **Contact information**: Name, phone number, and e-mail address and an alternative contact must be given.

# 5.2 Completing the "Resource Overview"

The resource overview shall be completed for all fields and discoveries, unless otherwise agreed with the Directorate. Fields and discoveries often have projects also in higher resource classes with associated resources. Projects with resources/reserves in RC0-5 shall be reported directly in the applicable profile collection.

- Expected resource class as of 31 December of the current year shall be used as a basis for the reporting.
- Only the Norwegian percentage of the resources is stated according to the distribution provided under "General information".
- In files where several discoveries are reported, resources for each individual discovery should be given separately.

**Hydrocarbons originally in place** shall be reported for each deposit. This year we will ask the report issuer to insert deposit name (Column B) and discovery name (Column C) from RNB-Collabor8. Download the table (left-click – excel export), and filter by reporting objects. From the exported file, Deposit names are pasted from column H and Discovery name from column F. Please note that description of deposit (Column D) is not in the pilot phase of Collabor8. Deposit should contain the name of the main geological group or formation of the deposit. The

names used should be taken from <u>the lithostratigraphic charts</u> that can be found on the Directorate's web site.

If there is a need for change of available deposits, this must be done in the Directorate's RNB-Masterdata.

Note that the name of the deposit used in column B forms the basis for specifying the deposit in the various profile collections. The hydrocarbons are divided between oil, associated liquid (condensate), associated gas and/or free gas all independently of the sales products. Gas volumes shall be reported at the actual calorific value. All estimates shall be given with uncertainty, i.e., high (preferable P10), low (preferable P90) and base estimate (expected value). Information about risk spread, i.e., the probability that the outcome will be greater than, or equal to the low/high value shall be given at the top right of the table. These values should always apply when uncertainty is reported.

	В	С	I п	F		G	Н			K		М	N	0	ь .
-									J					0	
20	2) Resource ove	rview					Risk distribution greater than or		ility that the outco	me will be	Low (%)	Base	High (%)		
21															
22	Recoverable resources a	and reserves in classes I	ower than 6 shall be repo	rted directly in	the applicable pr	ofile collection	n. A total over	rview of the	reported resou	rces can be for	ound				
	in the Resource Overvier	w - "Ressursoversikt" sp	readsheet	Resource Ov	erview										
24	A-1 A-1-1-1-1														
25	za) Originally in place:														
	Name of deposit	Discovery for the	Description		Oil		Accordat	ed liquid (co	ndonesto)	٨٠	sociated gas			Free gas	
	(Select from list or enter	deposit	of		(million Sm <sup>3</sup> )			(million Sm			billion Sm <sup>3</sup> )			(billion Sm <sup>3</sup>	
26	new)	(Select from list)	deposit		(million Sm )			(million Sm	)	(	billion Sm )			(Dillion Sm	, ,
26 27 28				Low	Base	High	Low	Base	High	Low	Base	High	Low	Base	High
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38	<u> </u>	<u>-</u>													
39															
40															
41															
42															
43															
44													L		
	Total :			l	0,0			0,0			0,0			0,0	1
46															

**Recoverable resources** shall be stated for all discoveries and fields. Recoverable gas comprises quantities which are sold, physically delivered, or planned to be delivered from the asset.

The resources should be reported as sales products; oil, NGL, condensate and gas. The sales products shall, to the greatest extent possible, be reported in the same way as they will be reported to the Directorate (DISKOS – Saleable Production) in the regular monthly reporting. This means that condensate sold as oil should be reported as oil, and associated liquid from gas fields shall be reported as oil if the liquid is sold as oil. If any changes in definition of sales products during the operating period of a field, the date of the change should be reflected in the RNB reporting, meaning that the change should be reflected in the same way as reported to DISKOS (Saleable Production).

In the table showing hydrocarbons originally in place, condensate should be reported as associated liquid, regardless of the sales product.

Gas flared or used for fuel shall not be included in the resource base.

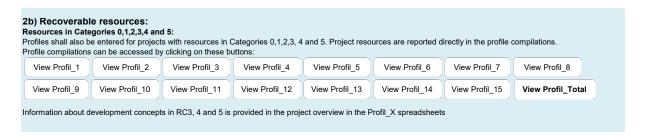
For all fields and discoveries, high, base (expected value), and low estimates shall be reported for recoverable resources, see chapter 6.3 Annual Profiles for petroleum - production, sale, transport, and injection.

For projects in RC1-5, the recoverable resources are normally equivalent with sum of the reported sales profiles. However, some fields and discoveries with commercial agreements for swaps/borrowing/deferral of volumes need special handling (see chapter 6.3.5 for more information).

# **Reporting of RC0-5**

Recoverable resources in RC0 – 5 shall be stated in the relevant profile collection. The profile collection is displayed by clicking on one of the buttons marked "View Profil\_x". The profile collections can be displayed and then hidden as needed, without changing the set-up.

There should be consistency between profiles and the stated base estimates for recoverable resources unless special reasons indicate otherwise.



One profile collection (minimum) shall be prepared for each resource class in which a project is reported.

In total the field/discovery should not report negative resource estimates, but fields and discoveries can have projects with negative resource estimates.

Reporting of historical production from fields with ceased production has been challenging to get correct. Fields that have ceased production shall report the total production for the prior production period in a separate profile sheet with RCO, where the production for all products are identical to what has been reported to DISKOS (Saleable Production). Fields without potential for further activity and where all cessation costs have been spent before the previous year, should not be reported.

# Recoverable resources RC6 and 7:

For projects in RC6 and 7, the necessary information is provided in the "General info and comments" spreadsheet. Column B gives the name of the project as it appears in the Project list. The resource class is obtained from the drop-down list in column C. Project category "A" or "F" is selected for RC7 from the drop-down list in column D. The deposit from which the project obtains its resources is selected from the drop-down list in column F. Information about evaluations that have been performed, and further plans for the project are provided in the comments space below the table.

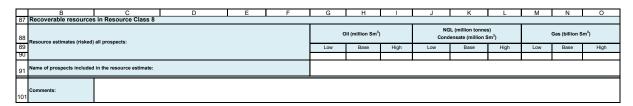
	В	С	D	E	-	G	Н			К		М	N	0	P	Q	R	S
00			U		г	G	п	_ '	J	_ N	L L	M	IN		P	u u		
bU	Recoverable resources	in Classes 6 and 7																
61						Year for the decision to initialize		Oil (million Sn	n²)	(n	NGL nillion tonnes)			Gas (net deliver (billion Sm <sup>3</sup>		Cor	ndensate (million	ı Sm³)
62	Name of project	Resource Class	Project Category	Serial Number	Deposit	(feasibility studies) DG0 (yyyy)	Low	Base	High	Low	Base	High	Low	Base	High	Low	Base	High
63																		
64																		-
65																		-
66																		_
67																		_
68																		
69																		
70																		-
71																		
72																		
73																		
74																		
75																		
76																		
77					· ·		1			1	1	1	1			1		
78	TOTAL RC6							0,0			0,0			0,0			0,0	
79	TOTAL RC7							0,0			0,0			0,0			0,0	0,0

#### **Reporting of RC7A:**

For projects in RC7A, the resource estimate should reflect a long-term expectation of the final recovery factor for the field/discovery due to anticipated technological development. The low estimate should reflect a long-term expectation of the final recovery factor for the field/discovery assuming a moderate technological development. The high estimate should reflect a more optimistic, long-term objective for the final recovery factor for the field/discovery assuming an expansive technological development.

# **Reporting of RC8:**

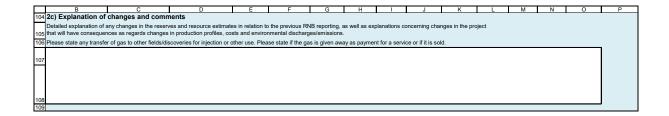
Estimates shall be given for recoverable resources in prospects in separate production licences/unitized fields that, given discovery, will very likely be tied into the field/discovery they are reported in. Prospects that extend into adjacent production licences are to be reported with the total volumes. It must be ensured that the prospect is not reported simultaneously by other fields/discoveries. The resource estimate must be risk-weighted and should reflect the estimated volumes multiplied by the probability of making a discovery.



#### **Explanation of changes and comments:**

Explanations of changes in the reserve- and resource estimates, compared with the previous RNB reporting, shall be entered in the space reserved for **explanation of changes and comments** at the bottom of the spreadsheet, paragraph 2c. When the reserves changes, respectively for oil and gas are +/- 0,5 million Sm³ o.e., please describe the reasons for the changes, as a minimum either as development decisions, well decisions or as model- and assumption changes.

Changes in total recoverable resource estimates of more than 5 per cent are considered significant and must be explained.



# 6 Completion of the Spreadsheet – "Profil\_1-15 (=profile collections)"

# 6.1 Definitions, Reporting Requirements and the Need for Comments

# 6.1.1 Definitions and reporting requirements

**Profile:** All yearly or monthly data under one heading (i.e., column) in the spreadsheet is a Profile.

**Profile collection:** All data in the different spreadsheets, Profil\_1, Profil\_2, are Profile collections.

**Time horizon:** The operator should report complete profiles for the projects, assumed profitable operations beyond the expiry of the license. Relevant columns for costs and emissions, because of the production, shall be filled inn. If profitability is dependent on other projects, e.g., when reporting an uneconomic tail production, this should be stated in a comment for this project.

**Norwegian part:** If the ownership of a field or discovery is shared with another country, only the Norwegian part shall be reported in the profiles, except for environmental data which shall be reported 100 per cent if the emissions take place in Norway.

**NOK-values:** Costs and income for the previous calendar year shall be reported in actual NOK values for that year. No price increase/decrease calculation shall be made on cost numbers for previous years. All future costs and income shall be reported in real NOK. Year of reference for real NOK shall be current calendar year.

**Costs:** To the extent possible, reported operating costs should be distributed among the various cost components and correspond with the operating period. For next year, the RNB reporting should be in **accordance with the proposed license budget per 1.10**. Any discrepancies between reported estimate and the operator's proposed investment budget shall be commented in cell AE28 in the relevant profile sheets.

# 6.1.2 Type of profiles - overview

For fields, discoveries and TUF in RC0, 0+1, 1, 2, 3, 4 and 5, data on a yearly basis should be reported.

Monthly sales quantities for 2025, actual profiles shall be reported in a separate spreadsheet, see chapter 8 – Completion of the spreadsheet "Månedsdata".

Types of data included in the profile collections:

- Project overview incl. recoverable resources and project attributes
- Uncertainty on production start/DG4 should be reported

- Production and injection data
- Sale of petroleum and other revenues
- Physical rich gas/dry gas deliveries
- Costs, (investments, operating costs, tariffs, and other costs)
- Environmental data

The scope of the reporting depends on the type of project (field versus pipeline/land facility) and resource class.

There is an area under each profile collection for the consistency checks of data entered in the profile collection, see chapter 9.2 Consistency checks.

#### 6.1.3 Comment boxes - explanation of changes from last year's reporting

Each profile collection includes comment boxes placed above the production and sales data, investment data, operating costs, and environmental data. These boxes shall be used to provide brief information about the profiles. For example, if gas is bought for injection, please state the source field in the information cell "Please name sources of gas purchase".

Furthermore, the comment boxes are to be filled in if there are significant changes compared with the previous RNB reporting, such as:

- Changes of more than 5 per cent in the total recoverable resource estimates.
- Changes in one (or more) years in the next ten-year period that is greater than 10 per cent or more than 1 million Sm³ o.e.
- Changes in total investment of more than 5 per cent Changes of more than NOK 500 million in a single year.
- Changes in operating costs amounting to more than NOK 300 million per year.
- As regards "Disposal costs and Other income", changes in the total estimate greater than NOK 300 million must be explained.

The comment boxes can be used to explain large variations in the series of number reported this year. For projects that are reported with operating costs in basis profile, the comment box in this profile sheet is used to explain nonconformities. For other projects, the nonconformity explanation is provided in the comment box in the profile sheet, ref. chapter 6.7.

# **6.2 Project Overview**

The table at the top of each profile sheet must be completed with information about the projects included in the profile collection: project name, resource class and project category. Please notice that resource class and category only shall be entered into row 7, automatic filled in if multiple projects. Serial number will not be in use RNB2025. Recoverable volumes shall be stated with uncertainty. Fields and discoveries shall specify which deposit the recovery comes from. The drop-down lists retrieve information from Table 2a in the spreadsheet "Generell info og kommentarer".

	Н		J	K	L	М	N	0	Р	Q	R	S	T	U	V	W
1	Profil 01		Hide Profil 1													
	ALVHEIM		Tilde I	10111_1		RNB2025										
	Project overview incl. rec	overable res	ources						20		Gas resource	es/reserves s	hall be stated	with actual gr	ross calorific v	alue excludin
_				Not in use RNB2025		Oil (million Sm <sup>3</sup> )			NGL		Ga	s (net deliverat (billion Sm <sup>3</sup> )	ole)		Condensate (million Sm <sup>3</sup> )	
	Name of	Resource	Project	TUTELOZO		(million Sm )	1		(million tonnes			(minon sm)			(million Sm )	
6	project	class	category	Serial Number	Low	Base	High	Low	Base	High	Low	Base	High	Low	Base	High
7																
8																
9																

The main project should always be reported in Profil\_1. Further profile sheets should be used according to maturation and dependencies. For example, a project depending on implementation of another project should be reported in a profile sheet with a higher number. Note that the resource class is independent on the numbering of profile sheets.

In each profile sheet, multiple projects with the same resource class can be included. The projects reported in the same sheet should have a common project type and decision timeline. Larger projects, where PDO or an application for PDO exemption will be delivered, must be reported in a separate profile sheet. Furthermore, the projects in the resource classes 3, 4 and 5 require information ("prosjektattributter") about the projects, this is described in chapter 6.10 Project Attributes.

# 6.3 Annual Profiles for Petroleum - Production, Sale, Transport, and Injection

This chapter includes a description of the reporting of liquid and gas profiles. Please note the following:

- Reporting is requested for the sales product, for example condensate sold as oil should be reported as oil
- 2) For individual profiles negative rates can occur in some years, for example, a profile for a project that entails acceleration of the oil production or increased gas injection, however the sum of all profiles for a field or discovery should be positive
- 3) Reporting of commercial agreements involving swaps/borrowing/deferral of volumes are described in chapter 6.3.5.

Generally, for all profile sheets reported in RC 2-5 we request information on assumed start-up (DG 4) of projects.

	M	N	0	Р
30		Early	Base	Late
31	Month:			
	Year:			
32				

- Year and month when production from a project or operation of an infrastructure project will start:
  - $\circ$  DG4 (Base) reflects the expected start-up date
  - o DG4 (Early) could reflect an ambition start-up date
  - o DG4 (Late) reflects possible delays that could occur to the project, delaying start-up

The DG years should be consistent with the resource class for the profile. Example: volumes from wells classified as reserves according to 3.3.1 in the Guidelines, shall have DG1-DG3 when these criteria are met even though DG3 (drilling plan) for individual wells are not yet approved.

#### 6.3.1 Production and injection data

The profiles under the heading "Production and injection data" relate to volumes that are produced and injected in the deposits in the same field, not injection in other fields.

	Н		J	K	L	М	N
33			Pro	duction and	d injection o	data	
34	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	Water injection	Water production	Gross gas production	Natural gas injection in own field, exclusive gas lift	Gas for gas lift	CO2 Gas injection
35	Unit:	million m3	million m3	billion Sm3	billion Sm3	billion Sm3	billion Sm3
37	Sum:	0,000	0,000	0,000	0,000	0,000	0,000
38	Accum. up to and including 2022						
39	2023						
40	2024						
41	2025		_				_

The following profiles are to be reported:

- Water injection (million m<sup>3</sup>) in own field
- Water production (million m<sup>3</sup>) from own field
- Gross gas production (billion Sm³) Gross gas production shall be equivalent to the lifting of gas from the reservoir in the relevant field/discovery. Gross gas production shall not include gas from other fields/discoveries that is merely processed and/or transported on the field/discovery that is the subject of the report. Nor should this profile include gas lift rates. For fields that are in production, gross gas production shall be reported in volumes equivalent to those reported to the Directorate (DISKOS – Allocated Production), in connection with the monthly production reporting. The measuring point is otherwise left to the discretion of the individual operator (state applicable assumptions).
- Natural gas injection in own field excluding gas lift and CO<sub>2</sub> (billion Sm<sup>3</sup>) reported in separate columns. Injection gas purchased (bought or borrowed) from another field shall be included in this column by the recipient (not the provider)
- Gas for gas lift (billion Sm<sup>3</sup>)
- CO<sub>2</sub> injection (billion Sm<sup>3</sup>) for enhanced recovery in own field.

# 6.3.2 Profiles for sale of oil, NGL and condensate

For **oil**, annual base (expected) estimates must be reported with uncertainty estimates if the project is in RC (0+1) - 4. For **NGL** and **condensate**, only annual base (expected) estimates are to be reported.

	Н	0	Р	Q	R	S
		Annual sale	Annual sale	Annual sale	Annual sale	Annual sale
		oil	oil	oil	NGL	condensate
	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating	Low estimate	Base estimate	High estimate	Base estimate	Base estimate
34	agreement (JOA) item					
35	Unit :	million Sm3	million Sm3	million Sm³	million tonnes	million Sm3
37	Sum:		0,000		0,000	0,000
38	Accum. up to and including 2022	0,000		0,000		
39	2023	0,000		0,000		
40	2024	0,000		0,000		
41	2025					

The high and low estimates must describe the sample space for the relevant calendar year including both general reservoir uncertainty and operational uncertainty. Operational uncertainty shall reflect the progress in well drilling, the productivity of the wells, production capacity in processing facilities, etc.

The total of low estimates for annual production will normally be lower than the low estimate for the resource estimate (chapter 6.2), as uncertainty in annual volume shall include uncertainties that are not correlated from year to year (for example regularity). It is also improbable that the low estimate will occur all years. Correspondingly, the total of annual high estimates will normally be higher than the high estimate in the resource overview.

# 6.3.3 Transport, sale, and purchase of gas

Transport and sale of gas shall be reported independently of the given production permit. If the expectation is higher than the production permit, this must be stated.

Note that some of the gas data is to be reported according to calendar year (1 January – 31 December), while other data is to be reported according to gas year. The gas year (n) runs from 1 October in year (n) to 1 October in year (n+1). If it is difficult to convert between gas year and calendar year, please contact the Directorate.

We are cooperating with Gassco on the reporting. The sheets used to report to the GMDC are included in the reporting file. The RNB data is transferred into the "Gassco sheets" using formulas. The operators will receive a separate request from Gassco.

	Н	Т	U	V	W	Х	Υ	Z	AA
	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	Annual dry gas Low estimate per calendar year. Gross calorific value (GCV)	Annual dry gas Base estimate per calendar year. Gross calorific value (GCV)	Annual dry gas High estimate per calendar year. Gross calorific value (GCV)	Physical dry gas deliveries from fields/ discoveries per gas year. Gross calorific value (GCV)	Physical rich gas deliveries from fields/ discoveries per gas year. Gross calorific value (GCV)	Saleable gas per calendar year 40 MJ/Sm3	Saleable gas per gas year 40 MJ/Sm3	Gas purchase per calendar year 40 MJ/Sm3
35	Unit :	billion Sm3	billion Sm3	billion Sm3	billion Sm3	billion Sm3	billion Sm3	billion Sm3	billion Sm3
37	Sum:		0,000		0,000	0,000	0,000	0,000	0,000
38	Accum. up to and including 2022	0,000		0,000					
39	2023	0,000		0,000					
40	2024	0,000		0,000					
41	2025								

#### **Transport of gas:**

The profile in column W (Physical dry gas delivery) shall be completed for all fields and discoveries that physically deliver gas. Fields that deliver rich gas shall report the expected volumes of dry gas at sales point after processing. For fields transporting unstable liquids ashore, the profile W shall not contain dry gas that is separated from the liquids at the terminal.

The data (column W) shall be reported with gross calorific value per gas year. This profile (W) is also used in the enclosed Gassco forms in the RNB file. For fields/discoveries that are expected to deliver dry gas to Gassled, the gas is reported to Gassled Area D (dry gas) ("Entry point" = Gassco Area D). All gas that the licensees may seek transport rights for in Gassled, shall be included in the Gassco part of the reporting.

The profile in column X (Physical rich gas delivery) shall be completed for fields/discoveries that are expected to deliver rich gas. The profile is stated per gas year with actual gross calorific value at the sales point. The profile is also used in the enclosed Gassco forms in the RNB file. Fields that export rich gas to another fields for processing before further transport as dry gas, are not required to report rich gas in column X.

For fields/discoveries that are expected to deliver rich gas to Gassled, the rich gas (column X) is reported to Gassled Area A (Statpipe), Area B (Åsgard), Area E (Kollsnes), Area K (Haltenpipe), Area L (Utsira High Gas Pipeline) and/or other areas such as the Barents (Gassco: "Entry points"). All gas that the licensees may seek transport rights for in these transport systems or areas, shall be included in the Gassco part of the reporting.

#### Sale of gas:

The profile in column Z (saleable gas per gas year) is derived from the profile in column W. For fields transporting unstable liquids ashore, this profile (column Z) should also contain dry gas that is separated from the liquids at the terminal and sold.

The profile in column Y (saleable gas per calendar year) is derived from the profile in column Z, only converted into calendar years.

The profile in column AA includes both historical and future expected purchases. Gas received as compensation for services (such as storage, treatment, and transport), is not defined as purchase. All physical received gas to the field / discovery (bought, compensation, in kind, etc.) shall be reported in column BY (Receipt of gas), see chapter 6.9.1.

# Sale of gas – low and high estimates:

The profile in column U should be identical with the profile "Saleable gas per calendar year 40 MJ/Sm<sup>3</sup>" in column Y but stated in gross calorific value. For reporting of uncertainty and production start-up, the same principles as for oil are used as a basis (see chapter 6.3.2).

The table below summarizes the reporting of different gas types.

Table 6-1 The reporting of different gas types

		Column									
Product exported from	T, U, V	W	Х	Υ	Z						
field											
Dry gas	δ	δ		δ	δ						
Rich gas	ρ	ρ	δ	ρ	ρ						
Condensate	χ			χ	χ						

- $\delta$  Gas delivered directly from the installation
- ρ Expected volumes of dry gas at sales point after processing
- $\chi$  Dry gas separated from the liquids at the terminal and sold

#### 6.3.4 Reporting of gas blow-down

Blow-down of gas caps on the fields should be reported in a separate profile collection. This will apply to projects that describe a change in production strategy for gas (compression, blow-down, etc.).

The reason for this, is the uncertainty of when these projects start. It is therefore useful to receive separate profiles so this can be taken into consideration when the Directorate's aggregated prognoses are prepared. Therefore, the blow-down projects included in RC0 +1, and previously included in the main profile, should be reported separately.

For these projects, it is desirable to get gas and associated liquid profiles and investment profiles in a separate profile collection. Operating costs and environmental profiles can still be reported in the main project unless the project involves new power-generating equipment.

#### 6.3.5 Reporting of resources and profiles for commercial agreements

Gas bought from other fields (for injection purposes), which later will be exported, shall not be included in the resource base of the buyer. These volumes should be shown in a separate row in the resource overview with negative numbers. The gas import profile is given in column AA (gas purchase) by the buyer, and the payment is given in column BJ (Cost purchase of gas).

If gas is delivered to another field/discovery for injection or other use, please name the actual field/discovery. If the gas is given away as payment for a service or if the gas is sold, this should be explained in the comment box 2C in the worksheet "Generell info og kommentarer".

When products are delivered in kind to other fields, the recipient should show the volumes in a separate row in the resource overview, if these volumes will be sold.

When commercial agreements involve swaps/borrowing/deferral of volumes between fields, a new "commercial" profile, Profil\_15 can be added.

The complexity in reporting of commercial agreements varies, and in some situations sufficient reporting might be possible without the introduction of Profil\_15.

Reporting of commercial agreements should apply the following practise:

- Commercial agreements between fields/discoveries should be reported in the RNB file.
- The effects of commercial agreements should be reported in Profil\_15. If there are several field agreements, please use the adjacent profiles in descending order (Profil\_14, Profil\_13 etc)
  - To avoid unnecessary feedback in the consistency checks, you should choose "Kommersiell avtale" as project type in the attribute area AB7:AB25 regardless of resource class.
- If a commercial agreement is expected, the commercial effects should be reported. When to report depends on what information the discovery/field holds at the time of reporting; this is not related to a decision gate (DG) for the discovery. Please state if all parties have agreed to the commercial agreement or if it is in progress, use the comment box in cell H28.
- If only one party considers that there will be a need for commercial agreements this must be reported. Comment box in cell H28 must be used to explain the preconditions for the agreement and the expected host field.
- For bookkeeping it is crucial that the different parties report the same effect of the
  commercial agreement, i.e., the total effect should be zero. If the agreements are not
  ready for RNB reporting, the Directorate can ask for the commercial effects in a separate
  Excel file. Please comment (cell H28) on whether the other field/discovery is expected to
  report.
- The gas columns in Profil\_15 should be based on the same definitions as in chapter 6.3.3
- The sum of all profiles (including Profil\_15) should give the correct total income profiles corresponding to the total resources in the project resource overviews (Sheet "Ressursoversikt" row 315).
  - The project resource overview should correspond to the sum of the sales profiles for all products in each profile collection.
- In total the field/discovery should not report negative total resources in the project resource overviews. If the expectation is that a development of a discovery reduces total saleable products, please report physical products separate from the total effect. Total saleable can then be corrected in Profile\_15.
- The comment area should be used to describe commercial set-ups and assumptions (cell H28).
- Bilateral agreements between individual companies (e.g., shipper agreements) are not to be reported in the RNB file.

# 6.4 Costs and Income –the Joint Operating Agreement and Exceptions therefrom

The <u>Joint Operating Agreement</u> (JOA), which is an appendix to the License Agreement, specifies which cost items the licensees are obliged to report in their budgets, work programs etc. The JOA consists of 9 main items with sub-items (and sub-sub-items).

The reporting to the Directorate shall mainly be in accordance with the item structure in the JOA. In some cases, the operators are asked to submit more detailed reporting than what is specified in the JOA. In other cases, the operator is requested to report more aggregated data. This applies to both investment costs and operating costs.

#### 6.4.1 Operating income, Concept studies (JOA, items 7 and 4), Price increases

#### Concept studies (JOA, item 4)

For further definition of what is included in "Concept studies", please refer to the JOA.

# Operating income (JOA, item 7)

Tariff income shall be reported in the spreadsheet "**Tariffinntekter**" (see chapter 7 for details). Tariffs from this spreadsheet are copied automatically to Profile 1 only.

"Other income" beyond tariff income should be reported directly in column AC under "Other income" in the profile sheets.

#### General price increase

«General price increase» is the operator's general assumption for converting nominal NOK to real NOK. For RNB2025 the reference year is 2024. The "General price increase" should therefore be used to convert nominal figures for 2025 and onwards from nominal value to 2024-value. Figures for year 2023 should be reported in nominal values.

Please note that if the general price increase is assumed to be constant with time from 2024 and onwards, this shall be reported as a percentage in the cell AC28 in profile sheet 1 (**Profil\_1**). We expect the same general price increase (for instance the consumer price index) to be used for all projects reported by the same operator, and we recommend that the price increase percentage value is entered into cell AC28 by a coordinator before internal distribution to the projects. If the general price increase varies, please state the percentages in the "**Cost control**" spreadsheet range C19:C41, see chapter 9.3.

# 6.4.2 Investments (JOA, item 5)

Investments begin when a decision on implementation of a development project has been made.

Reporting to the RNB regarding investment costs differ on certain items from the structure in the JOA.

The table below shows where this is applicable.

Table 6-2 Investment costs

Structure in The Joint	Structure in the RNB reporting
Operating Agreement	
5.1 Development investments	Development investments shall be reported separately for:
	- Subsea facilities
	- Floating facilities
	- Fixed facilities
	- Pipelines and land facilities
	- Other development investments
5.2 Operating investments	Operating investments
5.3 Production drilling	Investments in development wells shall be reported
	separately for:
	- New wells from mobile facilities
	- New wells from permanently placed facilities
	- Investment related to production drilling not distributed by well

The following table shows the reporting requirements for development and operating investments, ref. Items 5.1, 5.2 and 5.3 of the JOA.

г	Т	н	AE	AF	AG	AH	Al	A.I	AK	ΔI	AM	AN	AO	AP	AQ	AR	AS	AT
3	3			Investments														
	7		Concept	Investments in	Investments in	Investments in	Other	Operating	Total	Dev. wells from	Dev. wells from	Investments in	Investments in	Investments	Investments in	Investments in	Total	Total
			studies	new subsea	new floating	new fixed	Development	investments	investments in	permanently		dev. wells from	prod. wells	related to	pipelines	land facilities	investments in	investments
	2	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.	-JOA 4	facilities	facilities	facilities	investments	(modifications)  JOA 5.2	facilities	placed drilling facilities	facilities	facilities	from mobile drilling facilities -JOA 5.3 part	production drilling not distributed by well	-JOA 5.1 part	-JOA 5.1 part	pipelines and land facilities -JOA 5.1 part	JOA 5
	4	Joint operating agreement (JOA) item			·	·									,			
3	5	Unit:	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	Quantity	Quantity	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK
3		Sum:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	8	Accum. up to and including 2022							0								0	0
3	9	2023							0								0	0
4	0	2024							0								0	0
4	1	2025							0								0	0

# 6.4.3 Development investments (JOA, item 5.1)

The JOA: "Development investments concern the development of new resources. There will always be concept studies before such an investment is made. The budget for the project is sanctioned by an approved PDO/PIO. Some projects are exempted from the PDO requirement."

"Other development investments" is a miscellaneous column that includes all other development investments.

Please control the accordance between type of development investment and development solution reported in the project attribute area for RC3-5 projects.

# The following definitions apply:

**Subsea facilities** are facilities on the seabed. They are to be reported excluding pipelines.

**Floating facilities** comprise all facilities that do not rest on the seabed, such as semisubmersible platforms, tension leg platforms (TLP), production ships, and other floating facilities. If in doubt, please contact the Directorate.

**Fixed facilities** comprise all facilities that are located on the seabed (excluding subsea facilities and pipelines), and that are above sea level. Fixed facilities also include mobile facilities which

during the field's lifetime are regarded as permanent for the field (e.g. jack-up rigs, owned or rented as production facility).

**Pipelines** shall comprise investments in the pipeline system. However, investments related to non-pipeline facilities offshore, such as Draupner, should be reported as investments in columns AF to AJ. Internal pipeline costs for fields and discoveries shall be included here, in addition to export pipelines. Costs related to umbilical are included with pipelines.

The pipeline system includes the actual pipeline downstream of the connection point on the production facility and upstream of the connection point for

- receiving production or process facility
- receiving pipeline with different ownership than the joint venture/equivalent or
- receiver on land

**Land facilities** include facilities owned by the joint venture, or equivalent that are located on land downstream of the pipeline. Investments on land that are transferred free of charge to another joint venture shall be included in the investment estimate.

Other development investments comprise development investments that would not naturally be included in the other categories, including special modifications or additional equipment on existing facilities. CAPEX for a discovery under evaluation, related to modification on a future host installation, should also be included. This category also covers investments in specific equipment on leased production facilities.

# 6.4.4 Operating investments (JOA, item 5.2)

We refer to the JOA which states what to be included in point 5.2.

# 6.4.5 Development wells (JOA, item 5.3) - investments and number of wells

# Development wells (JOA, item 5.3)

The reporting regarding development wells must differentiate between wells drilled from fixed and mobile facilities.

**Please note that** the Directorate uses the term Development wells instead of Production wells (and Development Drilling, not Production drilling).

The table below shows reporting requirements for investments in development wells, ref. Item 5.3 in the JOA.

	AL	AM	AN	AO	AP
34	Dev. wells from permanently placed drilling facilities	Dev. wells from mobile drilling facilities	Investments in dev. wells from permanently placed drilling facilities -JOA 5.3 part	Investments in prod. wells from mobile drilling facilities -JOA 5.3 part	Investments related to production drilling not distributed by well -JOA 5.3 part
35	Quantity	Quantity	million NOK	million NOK	million NOK
37	0	0	0	0	0
38					
39				·	
40				·	
41					

For more details, we refer to the JOA.

Please note that investments in development drilling that cannot be attributed to wells, such as seismic and associated activities mentioned above, shall be kept separate and reported separately.

# Number of development wells

New wells include all wellbores that receive their own designation in accordance with the Directorate's rules for naming wells and wellbores: <u>Designation of wells and wellbores</u>. Please note that a side-track and each branch in a multilateral well shall count as a separate wellbore.

The number of development wells is to be reported:

- Both production and injection wells shall be included in number of development wells and costs.
- Pilots and observation wells drilled to establish an efficient wellbore, should not be reported under the number of development wells. However, costs related to these wells must be reported. Calculations of an average well cost will then reflect the total cost of getting one functional well.
- Changes to the purpose of a well may occur. This however will not count as a new well, hence the number of wells is not changed. The costs related to conversion must be reported.
- Exploration wells (wildcat and appraisal wells) shall NOT be included in number of development wells nor in well costs.
- Disposal wells shall be included in number of development wells and costs.

The number of development wells from mobile and permanently placed facilities shall be reported.

The following definition applies:

- A mobile drilling facility means a drilling facility that is intended to be used on multiple fields.
- A permanently placed drilling facility means a drilling facility that is permanently placed on a field, including drilling facilities that physically can be moved, but are intended to be permanently placed during the production period. This means that wells drilled from floating facilities and jack-up rigs with drilling and processing equipment are drilled from a permanently placed facility.

The division is thus not determined by whether the facility can physically be moved or not.

#### Well costs

Costs associated with development wells, disposal wells and costs related to pilot and observation wells shall be reported.

The number of wells from fixed and mobile drilling facilities shall correspond per year with costs associated with development wells. The number of wells may be reported as a decimal figure (e.g.,3.2) if the wells are not completed within the calendar year.

As part of the quality assurance, a graph in the spreadsheet "Cost Control" shows yearly investments per well, distributed on different drilling facilities, calculated from the spreadsheet "Profil\_Total".

# 6.5 Operating Costs, (JOA, item 6)

The reporting to the RNB regarding operating costs differs on certain items from the structure in the JOA. The table below shows where this is applicable.

Table 6-3 Operational costs

Structure in The Joint Operating agreement	Structure in the RNB reporting
6.1 Operational preparations	Operational preparations
6.2 Operating costs and support activities	
6.2.1 Operation (ordinary operating costs)	Ordinary operating costs
6.2.2 Maintenance	Maintenance excl. wells
6.2.3 Well maintenance	Well maintenance
6.2.4 Modifications	Modifications
6.2.5 Subsea operations and maintenance	Subsea operations and maintenance
6.2.6 Platform services	Platform services
6.2.7 Administration	Administration
6.2.8 HSE	HSE
6.2.9 Reservoir management and	Reservoir management and
development	development
6.2.10 Business development	Business development
6.3 Logistics	
6.3.1 Maritime operations	
6.3.2 Air transport	
6.3.3 Supply bases	Logistics
6.3.4 Preparedness	
6.4 Tariff costs	Operating costs (part of item 6.5)
6.5 Other operating costs	Gas purchase (part of item 6.5)

The table below shows our requirements concerning operating costs. For more details, we refer to the JOA.

	Н	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK
33		Operating costs																
	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	Operational preparations	Ordinary operating costs -JOA 6.2.1	Maintenance excl. Wells	Well maintenance	Modifications -JOA 6.2.4	Subsea operations and maintenance "JOA 6.2.5	Platform services	Administration	HSE -JOA 6.2.8	Reservoir management and development -JOA 6.2.9	Business development -JOA 6.2.10	Other operational support	operations and support		Other operating costs  -JOA 6.5 part	Cost purchase of gas JOA 6.5 part	costs, incl. operations preparation excl. Tariffs
35	Unit:	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK	million NOK
37	Sum:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	Accum. up to and including 2022												0	0				0
39	2023												0	0				0
40	2024												0	0				0
41	2025												0	0				0

As part of the quality assurance, a graph in the spreadsheet "Cost Control" shows yearly unit costs calculated from the spreadsheet "Profil\_Total".

# 6.6 Shared Facilities (Costs)

Some fields or development projects share common facilities to achieve a cost-efficient resource management. Examples might be

- development of deposits in different production licences sharing common facilities
- power from shore projects involving different fields

For this kind of projects, all investments and operating costs should be reported by the operator of the shared facilities. Other fields or discoveries paying for the shared facilities should only report its investment share or operating cost share as Cost sharing CAPEX or Cost sharing OPEX in the spreadsheet (columns BR and BQ). For RC1 and RC2 the shared costs are to be reported by the operator of the shared facilities in sheet "**Tariffinntekter**".

When different projects at a specific field share new common facilities, all investments and operating costs regarding new common facilities should only be reported in one profile collection. No cost sharing should be reported.

# **6.7 Distribution of a Field's Total Operating Costs on an Individual Project** Projects that result in significant changes in operating costs cannot be reported in the basis profile.

• Examples of this include new facilities, new expensive equipment/drainage strategy and cost reduction project.

It is not necessary to report separate operating costs for a project on a field if no significant changes are expected in the operating costs on the facility.

• Examples of this include Wells/well work, optimizations within reservoir management, upgrades, etc.

If some of these projects result in extended lifetime for the field, the total operating costs must also be extended.

# 6.8 Shut down and Removal (JOA, item 8) and General Costs (JOA, item 9) Shut down and final disposal costs

Costs associated with shutdown and final disposal shall be reported. The time schedule for the activity must be practically possible to carry out. In a supplementary project that can extend the lifetime of the same field, costs related to shut down and removal/disposal may be postponed. Shutdown- and final disposal costs are then subtracted from the profile sheet for the supplementary project and added to the year(s) the removal/disposal of facility is taking place. An example is given below.

Example: A project in RC1 is shown in the left table. The right table illustrates a supplementary project in RC5 that can extend the lifetime of the field, thereby delaying shutdown and final disposal costs.

	Other costs			Other costs					
Year	Shut-down	Final		Year	Shut-down	Final			
	costs	disposal			costs	disposal			
	-JOA 8.1	(removal)			-JOA 8.1	(removal)			
		-JOA 8.2				-JOA 8.2			
	million NOK	million NOK			million NOK	million NOK			
	Kst_Nedsteg	Kst_Disp			Kst_Nedsteg	Kst_Disp			
	ning				ning				
	1400	1000			0	0			
2026	700	500		2026	-700	-500			
2027	700	500		2027	-700	-500			
2028				2028					
2029				2029					
2035				2035	700	500			
2036				2036	700	500			
2037				2037					

# 6.9 Environmental Data

The environmental forecasts comprise the physical volumes that are flowing in the production facilities on the respective fields, both from and to own fields and connected fields, and entailing emissions to air and/or discharges to sea.

Alternative power projects related to existing infrastructure shall be reported with costs and emissions when passed or expected to pass DG0 current year. The reporting shall be in a separate profile with emissions reduction both on the main field and associated fields. Termination of separate reporting shall be decided in the process with the project list.

# Main principles:

 For reserves, RC1-3, environmental data are reported for fields, transport systems and land facilities where the emissions/discharges physically occur. This means that some fields (such as fields that only have seabed installations) do not need to report other environmental data than drilling related emissions. The forecasts shall reflect

- emissions/discharges based on the use of current technology and the effect of emission/discharge reduction measures adopted by the license.
- A different principle is employed for RC4 and 5. Environmental emissions/discharges, as
  well as the assumptions used, are to be reported for the respective field/discovery.
  Future emissions/discharges from the development shall be reported. In the comment
  space, it should be stated which existing field that are planned to be used. The forecasts
  should be based on the current plans. Measures under consideration that could lead to
  emission/discharge reductions, beyond what can be achieved using current technology,
  shall be described in the comments space for environmental data.
- The border fields/discoveries whose facilities are placed entirely on the Norwegian shelf, shall report emissions/discharges.

#### BY ΒZ CD CA CB CC CF CF 31 Please name the fields that enter into the assumptions below (Alt + Enter for line shift) Delivered from Delivered to 32 Assumptions for environmental emissions/discharges and other data 33 Injected Total gas lift in Injected CO2 in Deliveries of Receipt of gas Deliveries of Discharge of Injected main field and gas from main oil/NGL/ natural gas in main field and produced water in main field and condensate main field and associated associated field and associated from main field associated fields fields as well main field and associated fields with ship and associated fields as well as deposit associated fields fields with ship as any deposit fields loading point or the facility loading point excl. gas lift on the facility million Sm3 oe billion Sm3 billion Sm3 billion Sm3 billion Sm3 million m million m3 39 40

# 6.9.1 Assumptions for environmental data

# Fields included in the environmental reporting

Associated fields that are included in the assumptions for environmental emissions/discharges should be listed in the cell above (BY32). Please distinguish between fields that you are receiving products from and fields that are recipients from your field (for instance by using two lines in cell BY32; Alt+Return to make a new line).

**Gas received** (column BY) shall include all gas received or purchased for fuel, injection, resale, or storage. It is insignificant whether the gas is actually used for this purpose, or whether it substitutes for gas produced from the reporting field/discovery.

**Deliveries of gas** (column BZ) shall be reported at actual calorific value. The column shall contain all gas, including gas from associated fields treated for further transport, as well as any NGL volumes that follow the gas stream. The volumes shall refer to the metering point (fiscal)

for shipping/export of gas on the facility. Gas directly injected in associated fields shall not be included in this profile.

**Deliveries of oil/NGL/condensate** (column CA) are sales of oil/NGL/condensate (including oil/NGL/condensate that is treated from associated fields) converted into Sm<sup>3</sup> oil equivalents (1 tonne NGL = 1.9 Sm<sup>3</sup> oil). NGL that follows the oil stream shall be reported here. The volumes shall be referred to the metering point (fiscal) for shipping/export of gas on the facility.

**Injected natural gas** (column CB) is the total volume of compressed natural gas for injection as pressure support and/or disposal in own or third-party fields. Gas that is delivered for further compression and injection and/or disposal in a neighbouring field, should be included in "Deliveries of gas" (BZ). The gas is reported at actual calorific value. Gas volumes used as gas lift shall not be included in this column, nor  $CO_2$  gas for disposal or pressure support.

**Gas lift** (column CC) is the volume of gas compressed on the field for use as gas lift in own or associated fields.

**Injected CO** $_2$  (column CD) is the volume of CO $_2$ -gas that is injected from the field for improved recovery or for disposal in own or associated fields.

**Discharge of produced water** (column CE) is the total volume of produced water discharged from the field, i.e., the water that comes from own field and other associated fields.

**Injected water** (column CF) is the total volume of water (seawater and/or produced water) injected for pressure support or disposal. If a field delivers water to an installation on another field, the injection is to be reported where the pumping work takes place.

	Н	CG	CH	CI	CJ
33		Consu	mption of na	tural gas and	l diesel
34	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	Natural gas used for fuel	Natural gas used for flaring	Diesel consumption subject to CO2 tax (in accordance with CO2 tax legislation)	Diesel consumption not subject to CO2 tax (mobile facility)
35	Unit:	million Sm3	million Sm3	million litres	million litres
37	Sum:	0	0	0	0
38	Accum. up to and including 2022				
39	2023				
40	2024				

Natural gas for fuel (column CG) is gas consumption to generate power.

Natural gas for flaring (column CH) is the gas volume that is flared.

**Diesel** (column CI) is diesel consumption from permanently placed facilities and mobile facilities that are tied in to a permanently placed facility in production (activity that is subject to the CO<sub>2</sub> tax) regardless the status of the reporting object.

**Diesel consumption** (column CJ) that is not subject to the  $CO_2$  tax under the  $CO_2$  Tax Act shall be reported in a separate column and shall include mainly diesel consumption on mobile facilities that are involved in petroleum activity. This entry includes activities before start-up and after cease of production.

#### 6.9.2 Emissions

**Emissions of CO<sub>2</sub> and NOx** from fuel gas, flaring and diesel include emissions from permanent facilities, mobile facilities linked to a permanent facility in production (activities subject to the  $CO_2$  tax) and facilities that are not covered under the  $CO_2$  Tax Act.

Emissions of  $CO_2$  as a consequence of e.g. venting from  $CO_2$  separation plants shall be reported under the column " $CO_2$  contribution flare", and shall also be addressed under comments. In some cases, this will lead to a lack of consistency between the columns "natural gas to flare" and " $CO_2$  contribution flare". This must be explained in the comments box.

For reserves (RC1-3), the total CO<sub>2</sub> and NOx emissions shall be divided between the contributions from fuel gas, flaring, diesel, and activity from mobile facilities.

For RC4 and 5 it is required to report the total prognosis for emissions of CO<sub>2</sub> and NOx, respectively. When possible, please specify these emissions according to contributions from fuel, flare, diesel, and activity from mobile facilities.

Activity related to exploration wells shall not be reported.

	Н	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT
33			CC	O <sub>2</sub> - dischar	ge			NO <sub>x</sub> - discharge			
34	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	CO2 total	CO2 contribution fuel gas	CO2 contribution flaring	CO2 contribution diesel (in accordance with CO2 tax legislation)	CO2 contribution from mobile facilities	NOx total	NOx contribution from fuel gas	NOx contribution from flaring	NOx contribution from diesel (in accordance with CO2 tax legislation)	NOx contribution from mobile facilities
35		million tonnes	million tonnes	million tonnes	million tonnes	million tonnes	1000 tonnes	1000 tonnes	1000 tonnes	1000 tonnes	1000 tonnes
37	Sum:	0	0	0	0	0	0	0	0	0	0
38	Accum. up to and including 2022										
39	2023										
40	2024										
41	2025										·

## Emissions of nmVOC and CH<sub>4</sub>

Total emissions of nmVOC and CH<sub>4</sub> from diffuse emission sources, and cold venting and from combustions (vent, turbines, motors, boilers, furnace, well tests, well cleaning or others) shall be reported. The sources of these emissions will be facility specific. Emissions of natural gas from all systems that handle hydrocarbons shall be included. Total emissions reported in columns CU and CV should be sum of all sources, except for storage and loading, reported yearly to Footprint.

Emissions associated with storing and loading of oil/NGL/condensate shall be reported in accordance with adopted measures or as the operator has planned (in those cases where a final decision has not yet been made).

For facilities that carry out storage and loading for other fields, these volumes and their associated emissions shall also be included (applies to reserves).

	Н	CV	CW	¢x	CY	CZ	DA	DB	DC
33	nmVOC & CH₄ - discharge							Power fro	om shore
	Rows for annual values after 2048 can be displayed/hidden by clicking the icon to the left of Row 115 header.  Joint operating agreement (JOA) item	Emissions CH4 from cold venting, combustion and fugitive emissions	Oil, NGL, etc. total loaded/stored	Emissions nmVOC storage	Emissions nmVOC loading	Emissions CH4 storage	Emissions CH4 loading	Annual power consumption	Maximum power usage (Peak)
35	Unit:	1000 tonnes	million Sm3	1000 tonnes	1000 tonnes	1000 tonnes	1000 tonnes	GWh	MW
37	Sum:	0	0	0	0	0	0	0	0
38	Accum. up to and including 2022								
39	2023								
40	2024								
41	2025								

# **Energy demand for power from shore**

Use of power from shore in the petroleum industry will have consequences for the whole power system onshore. Information regarding both energy requirements and power demand (GWh and MW) from the sector of the petroleum industry that gets power from shore is necessary, both to secure an effective operation of the power system onshore, and to help plan for prudent development over time.

It is important when planning to have the best possible overview and knowledge of both energy consumption and power demand. Power demand from the onshore grid, measured as maximum load during a year, from the installations that get power from shore will vary over time. This applies to both facilities that receive power from shore via subsea cables and land facilities that are directly connected to the domestic power grid. It is the power demand that regulates the dimensioning requirement of the transmission capacity in the power grid.

# Report

- Forecasts for power (electricity) consumption in GWh/year in column DB
- Maximum peak load/effect in MW that is expected for one hour, for each year in column DC

# **6.10 Project Attributes**

For all projects/discoveries in RC3-5, project-specific information shall be provided under the collective heading "project attributes" in the table at the top of each profile collection in the reporting file. Please note that the project attributes are identical to the categories used in Scope RNB-Collabor8. The spelling in Collabor8 is not reflected in descriptions below. It is possible to copy and paste information from other Excel-files, like exports from Collabor8. Project attributes for projects/discoveries in RC2 may be entered - but this is optional.

This information will be used in various analyses the authorities perform regarding the offshore activity. To ensure a uniform basis for the analysis, the project attributes are based on lists with

pre-defined selections (drop-down lists). Therefore, only one value can be selected in each cell. The selections shall be reflected in the profile collection below.

Project	Develop-ment	Need for new	Project	Technology	Technology	Technology	Time	Year for	Year for	Year for	Year for
type:	solution:	power	stopper:	usage:	areas:	status:	criticality:	the decision to	the decision to	the decision to	the decision to
Chose from drop-	Chose from	generation:	Most important	Is the project	Within which	What is the	Is the	initialize	concretize	continuation	implement
down menu.	drop-down	Indicate how	cause for the	based on	areas will new	status as	realisation of	(feasibility	(concept	(concept	(detailed
	menu.	the project will	project not	conventional	technology be	regards	the project time-	studies)	studies)	choice,	engineering
Use for Project-		get supply of	being realized	methods or will	used or	technological	critical, and, if			preliminary	PDO if
category "A"	Use for project-	power	or suffering	new technology	developed?	development	so, what kind of			engineering	relevant)
and	category "F" and		significant	be used or		for projects	time-criticality?			phase)	
commercial	"A"=		delay.	developed?		which are		DG0	DG1	DG2	DG3
agreements	Videreutvikling					conditional					
						upon new					
						technology?					
								(yyyy)	(1000)	(yyyy)	(yyyy)
								(уууу)	(yyyy)	(3333)	(3333)

For pipelines and land facilities the name of the various projects must be entered in H7 in the profile collection.

# When none of the options fit

In some cases, none of the options in the respective lists will be appropriate for the specific project. The parameter that comes closest shall nevertheless be selected. An explanation can be entered in the comments space to the right in the project attributes, or a more suitable parameter can be given. The same applies if several of the choices are equally relevant; select one parameter and, if applicable, list the others in the comments space.

The comments space can also be used to provide information e.g., that realization of the project is contingent on specific assumptions, more detailed information about the use of new technology, or technology development needs, and explanations for the decision plan.

### **Project type**

Use this attribute to describe the main method applied to recover the additional volumes reported with project attribute A. A drop-down list has been assigned to this column.

The table below shows available options for project category A.

Table 6-4 Options for project category A

Project type in Excel file	Description
Water injection	New or increased water injection to increase oil or gas
(Vanninjeksjon)	recovery
Gas/WAG injection	New or increased gas- or WAG injection to increase oil or gas
(Gass- og WAG-injeksjon)	recovery (most likely oil)
Wells	New production wells to optimize recovery
(Brønner)	
Advanced methods	Improved recovery through advanced methods including
(Avanserte metoder)	CO <sub>2</sub> – injection and chemicals injected together with water
	or gas. Also including other types of water treatment (e.g.
	low salinity and bacteria/microbial).
Further field development	New facilities to be installed on a field, to optimize recovery
(Videreutvikling)	or operations as well as prolong field life. May be subject to
	PDO. The actual facility type must be reported under
	attribute development solution.

Project type in Excel file	Description
Low-pressure production	Improved recovery of gas or oil (most often gas) by reducing
(Lavtrykksproduksjon)	inlet pressures in the process system through installation of
	compressors (subsea or topside) or booster pumps etc. and
	/ or reservoir depressurization, also called blow-down.
Change of energy source	Projects on existing field for partially or full replacement of
(Endret kraftforsyning)	current energy supply. Power from shore, wind turbines or
	alternative fuels are possible projects for this type.
Late-life production	Prolonged production (and improved recovery) through
(Senfaseproduksjon)	extension of facility lifetime, e.g., involving modifications,
	upgrades and/or reclassifications.
Other	When none of the alternatives suits the project. When
(Annet)	multiple methods are used, please select the main
	contributor to the volumes stated.
Commercial agreement	Commercial agreements that involve
(Kommersiell avtale)	swap/borrowing/deferral of volumes between fields. Please
	choose this project type regardless of resource class.

**Development solution** –use this attribute to describe the planned solution for development of resources with project category F. If multiple facilities are possible, pick the most relevant solution in the table below. This attribute also applies for project category A when the attribute, "further development" is selected.

More detailed information about assumed development concept can also be described using free text in the comments space in cell H28.

The table below shows the available options corresponding to project category F:

Table 6-5 Options for project category F

Project type in Excel file	Description
New stand-alone floating	Production ship with process facility (FPSO), semi sub, TLP
facility	
(Ny selvstendig flytende	
innretning)	
New stand-alone fixed	Integrated platform with process facility, e.g., jacket, jack-
facility	up, GBS
(Ny selvstendig, bunnfast	
innretning)	
Rental of production facility	Used when the main production facility, normally FPSO or
(Leie av	Jack-up, will be leased
produksjonsinnretning)	
Wellhead platform to	Platform without process facility
existing facility	
(Brønnhodeplattform mot	
eksisterende innretning)	
Sub-sea development to	New facilities located subsea and connected to existing
existing facility	facilities

Project type in Excel file	Description
(Havbunnsutbygg. mot	
eksisterende innretning)	
Well(s) from existing facility	New production or injection wells drilled from existing
(Brønn(er) fra eksisterende	facility either to infill targets or to undrained segments or
innretning)	prospects
Other	Used for other specified or unspecified projects that do not
(Annet)	fall under other categories. To be specified in the comments
	space to the right of the attribute lists

### **Power solution**

Many projects will be of such a character that there will be no need to install new power intensive equipment, and installed capacity must be used. This applies to both field- and development projects.

In the environmental part, independent data should be reported. We ask you to state what will be the most likely requirement at project implementation.

These choices are possible:

- Use of existing equipment (Bruk av eksisterende):
  - There will be no need to install new power generating equipment on the field/ host field/ power plant, installed capacity is sufficient
- New power generating equipment (Nytt kraftgenererende utstyr).
- Power from shore (Kraft fra land)
- Wind turbines (Vindturbiner)
- Alternative fuels (Alternative brennstoff)

### **Project stoppers**

We ask for an identification of the most obvious condition that may hinder project implementation as reported. For projects with resources in RC4-5 the most important cause for the project not being realized or suffering significant delay is to be chosen. The table below shows the available options:

Table 6-6 Project stoppers

Project stoppers	Description
None	It is not identified any obvious condition that can cause a
(Ingen)	halt or significant delay in the project
Uncertainty in resource	The resource estimate is associated with substantial
volume (Usikkerhet i	uncertainty and more information is required about the
ressursvolumer)	size of the deposit before deciding about realization
Reservoir properties	Low reservoir productivity expected acidification/H <sub>2</sub> S, sand
(Reservoarforhold)	production, etc. which are challenging, with the current
	solutions
Technology is lacking	Realization requires development of new technology
(Mangler teknologi)	

Project stoppers	Description
	•
Lack of infrastructure in the	Realization requires tie-in to facilities that are not yet in
area (Manglende infrastruktur	place, physical or contractual e.g. pipelines
i området)	
No gas solution	Realization requires a solution for handling of produced
(Manglende gassløsning)	gas, but no profitable gas disposal is available
Lack of capacity in existing	Realization assumes tie-in to facilities (process facilities,
systems	pipelines, land facilities) which do not have available
(Manglende kapasitet i	capacity in the relevant period
eksisterende systemer)	
No commercial agreement	Realization assumes agreements with third parties, and
(Mangler kommersiell avtale)	this is expected difficult to achieve
Rig availability	No mobile drilling rigs available in the market
(Riggtilgjengelighet)	
Environmental requirements	Realization can entail unacceptable environmental
(Miljøkrav)	emissions/discharges that with current solutions cannot
	be removed in a profitable manner
HSE requirements	Realization can entail unacceptable HSE conditions that
(HMS-krav)	with current solutions cannot be resolved in a profitable
	manner
Other	Specify in the comments space
(Annet - se kommentar)	

# Technology

Is the project based on conventional methods or will new technology be used or developed?

The table below shows the available options:

Table 6-7 Technology options

Technology	Description
Conventional methods	The project will use technology known and commercially
(Konvensjonelle metoder)	available for several years.
New available technology	The project entails use of, or is a result of, new
(Ny tilgjengelig teknologi)	technology/methods that are currently available
	commercially/ are fully qualified / recently developed, but
	not previously used on the reporting object.
Requires development of	Realization of the resources in the project is contingent on
technology	the development of technology/methods that are not
(Betinger teknologiutvikling)	available commercially today.
Other	Specify in the comments space
(Annet - se kommentar)	

# **Technology areas**

Within which areas will new technology be used or developed? Provide detailed comments in the comments space, e.g., if the project includes technology development within several areas. The table below shows the available options:

Table 6-8 Technology areas

Technology areas	Description
Seismic/resource mapping	Advanced seismic methods, 4D, geo-modelling, geo-
(Seismikk/res. kartlegging)	management, reservoir simulation, etc
Drilling/well technology	The drilling process, reduced drilling costs, well
(Bore/brønnteknologi)	interventions, completion, etc.
Reservoir technology	Injection media, residual oil saturation, reservoir
(Reservoarteknologi)	chemistry, etc.
Production control	Zone control, sand control, water production, etc.
(Produksjonsstyring)	
Facility/process	Process facility, power supply, environment, integrated
(Innretning/prosess)	operations, subsea facilities/equipment, etc.
Other	Specify in the comments space
(Annet - se kommentar)	

# **Technology status**

What is the status regarding technology development for projects that are contingent on new technology? The table below shows the available options:

Table 6-9 Technology status

Technology status	Description
Commercially available	No need for development of technology, available
(Kommersielt tilgjengelig)	technology will be used.
Not started	A need for technology has been defined, but no steps have
(Ikke startet)	been taken to start research / development.
Undergoing engineering	The owners are aware of/are financing
(Under prosjektering)	research/development.
Undergoing qualification	Technology has been developed but has not been qualified
(Under kvalifisering)	/ is not ready for use.
Undergoing field testing	The technology is available, but further use depends on the
(Under felttest)	results of pilot tests.
Other	Specify in the comments space
(Annet)	

# Time-critical aspect

Is realization of the project time-critical, and if so, what is the time-criticality. The table below shows the available options:

Table 6-10 Time-critical aspect

Time-critical aspect				
Not time-critical				
(Ikke tidskritisk)				
Contingent on infrastructure	Time-critical due to limited technical or economic lifetime			
(Infrastrukturbetinget)	of facility or time-limited window for process/transport			
	capacity.			
Contingent on reservoir	Time-critical due to planned gas export and/or accelerated			
(Reservoarbetinget)	pressure reduction (blowdown) or expected natural			
	depressurization, e.g., in connection with production from			
	adjacent fields (regional pressure drop) which can lead to			
	the loss of resources.			

### **Decision plan**

To ensure that the maturation of projects and discoveries can be followed, the authorities want an overview of the past and expected project decisions in the production licences. What kind of decisions will be made next, indicates how far the project has progressed in terms of studies/evaluations. The figure below illustrates the decision model used by the authorities for larger projects and developments, and that represents some of the possible selections in the list.

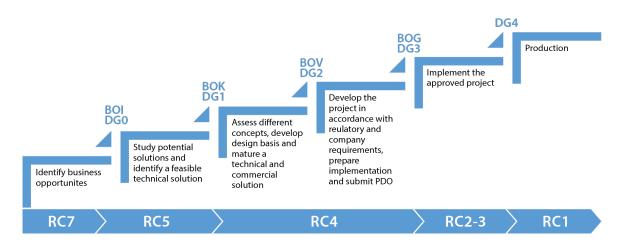


Figure 6-1 The connection between project maturation and resource classes

## **Decision year**

• The expected/planned years for future decisions must be indicated. Even if, for example, initiation of the project lies quite far into the future, the operator must nevertheless indicate a year that represents the best estimate. The year selected should be realistic,

- and not just an ambition. Decision milestones that have already been passed shall also be stated, including the year.
- Decision on project initiation, BOI (DG 0)
- Equivalent to start-up of feasibility studies. The project is a potential, but evaluation has not yet been started.
  - Decision on concretization, BOK (DG 1)
     Equivalent to start-up of concept studies. The project is initiated, and feasibility studies are underway. Work is proceeding towards a reduced list of concept options. The following activities are normally carried out in the feasibility study phase up to a decision on concretization:
- o The concept or resource base for the project is reviewed, evaluated, and described.
- The market for the proposed products is evaluated.
- Based on technical studies, potential feasible technical solutions are outlined for the field development, transport system, treatment facility, etc.
- o HSE consequences are evaluated.
- o A cost estimate is prepared for the project; this will normally satisfy +/- 40 per cent.
- o The probable profitability of the business concept will be documented.
- An evaluation is made of the uncertainty associated with the project, including resource base, market, technical solution, HSE, feasibility, supplier market, cost estimate and profitability.
  - Decision to continue, BOV (DG 2)
- Equivalent to start-up of pre-engineering and concept selection. A cost estimate with reduced uncertainty will be prepared.
  - Decision to implement, BOG (DG 3)
    - The project is in the engineering phase and final approval by the licensees and submission of PDO (if applicable) is planned. The year will mark when the resources are expected to become reserves. This applies regardless of whether the final decision is submission of a PDO, or whether the decision is made in some other manner. The selected year should be realistic, and not merely reflect ambition. Even if the project is in an early study phase, a year must be entered as the best estimate, given certain assumptions. For discoveries/projects that will be phased into a (parent) facility when capacity becomes available, this field can remain blank, if necessary, but a notation should be made in the comments space.

The DG years should be consistent with the resource class for the profile. Example: volumes from wells classified as reserves according to 3.3.1 in the Guidelines, shall have DG1-DG3 when these criteria are met even though DG3 (drilling plan) for individual wells are not yet approved.

# 7 Completing the Spreadsheet "Tariffinntekter" and Tariff Costs

Tariff income and tariff costs shall be stated, assuming that they entail a payment obligation.

# Tariffs per field

Tariffs shall be equivalent to 100 per cent of the field (or 100 per cent of the Norwegian share). If all licensees do not receive the same tariffs/have the same tariff costs, an estimate must be calculated, e.g., calculated as the operator's tariffs / the operator's share in the joint venture.

# Reporting period

Tariff income/tariff costs shall, as for the profile collection, be reported for the entire license period for the project, or for as long as income/costs are expected to occur for the project (longest period).

# 7.1 Tariff Income (only from fields with projects in RC1-2)

Tariff income shall be reported in the sheet named "**Tariffinntekter**" for fields that receive tariff from other fields/projects and shall include tariff income only from projects in RC1-2. Tariff income from projects in RC3-4 shall not be included by the receiver but is to be reported as tariff cost by these projects, in the profile sheet, columns BM to BR, ref chapter 7.2.

	А В	С	D	E	F	G	Н	I	J	K	L	М	N	0
1	Reporting for Revised National Budget 2025						Yearly income (mill NOK) should be stated for each field etc, paying cash for services.							
2	2 Tariff income / rebates					Field names should be selected from the drop list in row 7. Type of tariff should be selected from								
3	3 (million NOK)				the drop list in row 8. Free text should be added in the cells in row 9. The cells are small, but will									
4	Project ID:				handle text limited to 256 characters.									
5 Operator:														
6	Norwegian fields, etc. that pay for services in the form of money - state name of field at the top of the column.													
7	Field name :													
8	Tariff type:													
9	Free text:													
10	Year	C=D+AC	D=TOT(E:AB)	E	F	G	Н	1	J	К	L	М	N	0
11	2023	0	0											
12	2024	0	0											
13	2025	0	0											

The fields that pay for services in the form of money, shall be reported in row 7. The income flows are to be stated in separate columns. At the top of the column (row 7), select the name of the field that purchases services from the drop-down list. In row 8 it is possible to select a type of tariff from the drop-down list. Tariff revenues also comprise a possible reimbursement of operating costs because of cost sharing agreements with associated fields. Free text can be added in row 9, if needed. Space has also been allocated for more free text below the table.

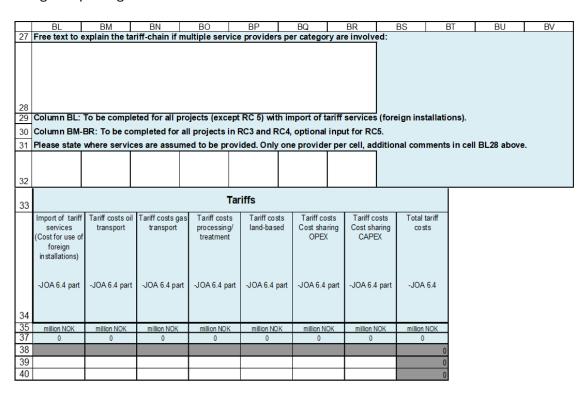
# Delimitation

Tariff income shall include all payments for services that are performed for another field or outside the Norwegian shelf in connection with treatment, transport, storage, modulation, etc. of petroleum. Tariff income shall also include any reimbursement of operating costs/investments that the relevant project may have covered by other parties because of agreements for treatment and/or transport of petroleum.

Total tariff income is automatically retrieved in Profil 1, from the data entered in the "Tariff income" spreadsheet.

### 7.2 Tariff Costs

Tariff costs are found on the profile spreadsheets and shall be reported for projects in RC3-4 that have such costs. However, if you have any information or data for RC5 concerning OPEX sharing and/or CAPEX sharing, we would appreciate that you also report this data. With exception of tariffs on foreign installations, tariff costs in RC0-2 shall not be reported. The tariff costs to Norwegian installations, associated with the projects in RC0-2, will be accounted for when the fields report income from third-party processing, and pipelines and terminals provide estimates of their income. The Directorate incorporates and allocates this income as costs for the relevant fields as part of the comparison of the figures associated with National Budget Reporting.



The types of data are divided between import of tariff services (foreign installations), oil transport, gas transport, processing/treatment, land facilities, direct payment of operating costs, and direct payment of investment costs. These are summarized for each project. The total column will be completed and calculated automatically.

You should indicate the intended location where the service is to be performed in the comments space above each data type (row 32). Only one provider per datatype, further explanation and other providers should be described in the larger text box above.

### **Definition and delimitation**

Tariff costs shall include all payments for services that are performed by another field on the Norwegian shelf in connection with treatment, transport, storage, modulation, etc. of petroleum.

• Only tariff costs that are or will be included in the licence budget should be reported. Costs that only occur in the operator's internal accounts should not be reported.

- For the purposes of this reporting, **import of tariff services (foreign installations)** comprises payments for use of the Brae pipeline, the Brent oil and gas pipeline (Flags) and any other foreign installations. The Directorate receives a calculation basis for Norpipe UK and Norsea Pipeline. Tariffs to Norpipe UK and Norsea Pipeline are therefore not included.
- **Oil transport** Costs associated with oil transport before the norm price point, i.e., transport costs that are deductible in relation to petroleum tax.
- **Gas transport** Costs associated with gas transport up to the sales location, i.e., transport costs that are deductible in relation to petroleum tax.
- **Processing/treatment** Costs associated with processing and treatment on third party facilities, including storage, modulation, etc. of petroleum, i.e., processing and treatment costs that are deductible in relation to petroleum tax.
- Land Costs associated with processing and treatment including storage, modulation, etc. of petroleum that takes place in terminals on land, i.e., processing and treatment costs in land facilities that are deductible in relation to petroleum tax.
- Cost sharing OPEX related to cost sharing agreement: Operating costs connected to a host field. The name of the host field intended to be used, shall be expressed in the comment box above the data type.
- Cost sharing CAPEX related to cost sharing agreement: Investments that should be made on a host field based on a tie-into this field. The name of the host field intended to be used, shall be expressed in the comment box above the data type.

**Note that import of tariff services (foreign installations)**, i.e., costs associated with the use of transport or processing facilities that are either geographically or in terms of the Petroleum Act outside the Norwegian shelf area, but that nevertheless are deductible in relation to petroleum tax, shall still be reported in a separate column (BL) in the profile collection. This applies both to fields in RC0-2 as well as projects in RC3-4.

Any tariff costs after expiration of the license period for the project, can be reported as an estimated annual amount, e.g., the level before the license period expired.

Only the Norwegian part of the tariffs shall be reported.

If there are other significant operating costs other than tariffs/rebates that are not covered by the joint venture or equivalent budgets, information must be provided separately, if applicable. Amounts are significant if they exceed NOK 50 million per year, or NOK 300 million in total over the next ten years.

# 8 Completing the Spreadsheet "Månedsdata"

Monthly sales quantities for the year to come shall be reported on a separate spreadsheet. The expected value is to be reported for all profiles. The total number for the year must be equal to what is reported in the respective profile sheets. It is important that differences in number of days per month is reflected, and that planned workovers are accounted for.

	В	С	D	E	F
8		Profile_1			
9		Monthly sales oil Base estimate	Monthly sales NGL Base estimate	Monthly sales condensate Base estimate	Saleable gas per calendar year distributed per month 40 MJ/Sm³
11		million Sm³	million tonnes	million Sm³	billion Sm³
12	jan. 25				
13	feb. 25				
14	mar. 25				
15	apr. 25				
16	mai. 25				
17	jun. 25				
18	jul. 25				
19	aug. 25				
20	sep. 25				
21	okt. 25				
22	nov. 25				
23	des. 25				
24	TOTAL	0,000	0,000	0,000	0,000
25		_	_	_	

# 9 Quality Assurance

# 9.1 The Operator's Responsibility

The person responsible for the operator's reporting shall ensure:

- that the reporting is in accordance with the agreed Project List
- that a correct profile collection is linked to the various projects
- that correct reporting is submitted to the authorities by the deadline stated in the dispatch letter
- that there is consistency between data types
- that contributions from the respective disciplines are quality assured

Quality implies that the reporting is in accordance with the requirements listed in the General Guidelines and in the Reporting file.

As previously mentioned in the guidelines, it is essential that no changes are made to the structure of the file. An automatic control whether there are reference errors, are executed when saving the file. You should not be able to save the file if reference errors occur, it is recommended to undo actions that have affected formula references.

# 9.2 Consistency Checks

As part of the quality control, several consistency checks are included in the spreadsheet below the profile collection. These checks control the consistency between information reported various places in the spreadsheets. When a check shows non-consistency, there are two alternatives:

- 1) Change the input so that it is consistent
- 2) Explain why the data is still correct

To help secure that this is accomplished, a check is incorporated in the reporting file. If there are unclarified consistency checks, a warning will show up after 1 October, indicating which profile sheet this relates to when closing the file. It is advised to not use the function "auto save" during this process, as the pop-up of the warning might be interruptive.

# **Description of the checks:**

### Checks 1, 3, 5 and 7:

Control that the same quantity is reported in the sheet "Månedsdata", as in the actual profile collection, as sales forecasts for the next year. A margin of 0.001 is granted for rounding off numbers. It is important that these numbers are correct, since they should be consistent with the production application.

### Checks 2, 4, 6 and 8:

Control that the resources reported in the profile collection equals the numbers reported in the project overview in the profile collection. A deviation of respectively 0.1 and 0.01 for "large" and "small" deposits is allowed. Resources are compared with the originally in place volumes to check correspondence on file level.

#### Checks 9 and 10:

Control that the different contributions to  $CO_2$ - and NOx-emissions respectively, add up to the total emissions reported.

### **Checks 11 and 12:**

Control that there are  $CO_2$ - and  $NO_x$ -emissions are reported until cease of activity. If there are consistency on a file level (**Profil\_Total**), no comments are given, else there will be comments in the individual profile sheets with deviations between activity and emissions. In these checks "activity" is measured as a combination of production, deliveries, and shut-down cost.

### Check 13:

Controls that there is no production after shut-down costs have been reported. Feedback will be given in the consistency check area in Profile 1 if the production continues after the reporting of the shut-down costs across the various projects in the file (the figures are taken from the **Profil\_Total**, which sums the figures across the profile collections in the reporting file).

# Check 14:

Is only shown in Profile 1 and is based on a summation of all profile collections in the file (**Profil\_Total**). Controls that annual cash flow is positive. The intention is to check sales data versus cost data to reveal significant errors (for instance in units) in the report. In this connection, firm prices have been assumed for all petroleum products:

• Oil: NOK 6000 per Sm<sup>3</sup>

Gas: NOK 5000 per 1000 Sm³
 NGL: NOK 7500 per tonne
 Condensate: NOK 6000 per Sm³

It is emphasized that these assumptions do not reflect the authorities' assumptions but are merely intended for use to reveal significant reporting errors.

#### Check 15:

Controls the succession of reported decision gates. The assumption is that DG0 will be passed before or in the same year as DG1, DG1 before DG2 etc.

There is also a check for projects with DG3 within 2024. These should not be reported in the same profile sheet as projects with DG3 after 2024.

### **Checks 16 and 17:**

Control that gas flow to and from fields is in balance. The checks are performed on **Profil\_Total**, and if activated, details are shown in individual profiles for troubleshooting. For many fields, the gas system is complex with several flows to and from other fields, therefore, these checks must sometimes be regarded as qualitative, hence, relatively large triggering slacks are applied.

Check 16 has the following logic:

Gross gas + Receipt of gas - Deliveries of gas - (Injected gas, fuel and flare) > 0,3 billion Sm<sup>3</sup>.

Check 17 has the following logic:

Gross gas + Receipt of gas - (Injected gas, fuel and flare) - Dry sales gas (Col U) > - 0,2 billion  $Sm^3$ .

The checks are performed on **Profil\_Total** and are activated if the balance is off. If the check is activated, details will be shown in each profile sheet. The input must be changed, or a reasonable explanation for the unbalance must be included.

#### Check 18:

Controls if comment boxes are used. It will be more useful to make comments in the text boxes prepared for this, than to comment in the space next to the response from the consistency check.

### Check 19:

Controls the coherence between resource class/sub-class and decision gates reported. Resource class/sub-class shall be reported according to expected status at the end of the reporting year.

### Check 20:

Controls the consistency between the sum of sales gas profiles per calendar year and gas year. Will also check whether input of gas purchase is complete, with both volume, cost, and receipt of gas.

### Checks 21-24:

Control of drilling costs. The checks will give a result when unit costs per well or unallocated well costs are outside the stated thresholds. The well number can be expressed as a decimal figure to correspond with accrued investments within the same year.

### Check 25:

Is only shown in Profil\_1 and controls that operation costs are reported in the profile collection for the same period as for income. Feedback will be given in the consistency check area in Profile 1, if the condition mentioned above is not fulfilled for the file in total (the figures are taken from the **Profil\_Total**, which sums the figures across the profile collections in the reporting file).

#### Check 26:

Controls that removal and cessation costs are reported for projects in operation, or projects containing investments in new infrastructure.

#### Check 27:

Controls whether the table for uncertainty regarding production start-up for projects in RC2-5 is filled in, and that the timing of respectively early, basis and late is consistent.

### Check 28:

Controls whether the table showing the project attributes is filled in. This table should be filled in for all projects with resources in RC3-5.

### Check 29:

Controls whether there is a correlation between the development concept in the table of attributes, and the development investment shown in the profile collections.

The control checks for investment numbers in the columns of floating or fixed facilities when these are selected as development solution, and that there are no investment numbers in these columns when subsea development is selected.

#### Check 30:

Controls whether subsea facilities in RC3-5 have reported associated pipeline investment, and that necessary investments at the host platform are placed in the correct column.

### Check 31:

Controls whether discoveries have reported costs for concept studies. It also controls whether development projects have reported number of wells.

# Check 32:

Check to verify input of the assumed general price increase (GPI). Feedback will be given in the consistency check area in Profile 1 if there are cost elements beyond the reporting year and GPI is lacking.

### Check 33:

This check only appears in Profil\_1 and controls whether there are negative values in the forecasted period in the total of all profiles in the reporting file (appears in **Profil\_Total**).

Normally there should not be any negative figures in the total value for a field, discovery, or facility. Negative costs should be recognized as income, negative production as injection etc.

# Check 34:

Controls that service provider are stated when tariffs are entered.

# 9.3 The Spreadsheet Cost Control

The input in this sheet is the operator's assumptions for general price increase, if this is not a constant value. In such cases input should be provided in cell AC28 in the sheet Profil\_1. In addition, the sheet contains two visual consistency checks linked to the sheet "**Profil\_Total**". The sheet gives a total of all the profile collections.

General price increase should be the operator's general assumption when converting nominal NOK to real NOK. For example, figures for 2025 apply to the general price increase from 2024 to 2025. This price increase must be used when converting the budget figures in nominal NOK to the reference year in real NOK. We expect the same general price increase to be used for all projects reported by the same operator. We recommend a coordinated input of these data before internal distribution.

The visual consistency checks below give a sum across all profile collections. Calculated net cash flow and costs per well are plotted against year. Any profile collections containing data outside a defined threshold value will be listed. Any comments, if the data is considered valid, should be made in the consistency check table for the relevant profile collections, checks 21-25.

# 10 Error Messages

The reporting file has been developed in Microsoft Office Excel 2007. The programming language "Visual Basic" has been used to program the macros. The reporting file should also function in earlier versions of Excel. Contact the Directorate if problems or error messages occur that are not described here.

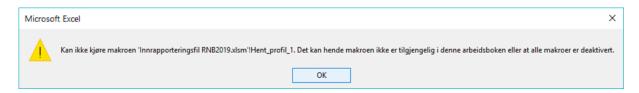
## **Error Message 1)**

"This document was opened with Macros disabled......"

If the macros were not activated (if "Disable macros" was clicked) when the reporting file was opened, the following error message will appear:

*Error! Objects cannot be made by edited field codes.* Click "OK", close the reporting file and then re-open it. Click on "Enable Macros" when the dialogue box appears.

This error message, or the one shown below, will also appear if the security settings in Excel are set at "High". To change the security settings, open the menu "Tools / Options / Security" and select "Macro security". Here you can select the "Medium" level. Every time you attempt to open an Excel file with built-in macros, a box will be displayed asking whether you want to activate the macros.

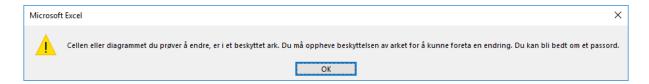


Opening the reporting file without activating the macros will cause several of the spreadsheet functions not to work.

# Error message 2)

"The cell or chart you are trying to change is protected ....."

If you attempt to paste in or enter data in protected cells, the following message will appear:

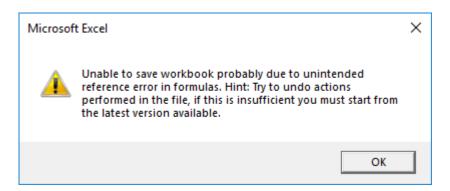


This can often occur, particularly in connection with pasting in large areas in the profile collections. There are several columns in which no data can be entered; and some of these are hidden to the user. Click "OK" on the message box and check whether there are protected cells in the entry area. Try to divide the paste area into smaller sections. Remember – you are only allowed to change white cells.

## Error message 3)

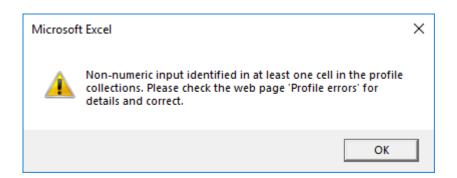
The file will not be saved if the entry has resulted in a reference error (#REF!). This error typically occurs when structural changes are made to the file (deleting rows, columns, or sheets). The error may also occur with "drag and drop operations", Copy-Paste etc.

The sheets containing #REF cells are listed in a new window 'Profile errors' in your browser. Normally the root to errors will be in the input area for profiles. To continue, you must undo the entry that provoked the error.



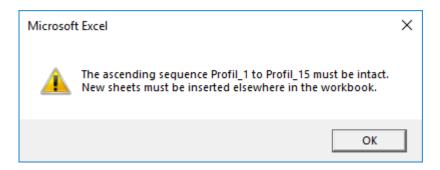
# **Error message 4)**

Check to avoid non-numeric input in the profile area. A new window 'Profile errors' will open in your browser with cell references to this input. The main purpose is to have an easy access to "invisible" input. These cells must be edited (delete information or insert 0).



# Error message 5)

New check to avoid errors in the summation of **Profil\_Total**. The sequence of profile sheets must be ascending and unbroken. The solution to this error message is to move sheets unintentionally placed within this range.



# Error message 6)

After 1 October, a warning will show up if there are unresolved consistency checks when closing the file. This is meant as a reminder that this must be addressed prior to submission of the file. Check the reason for the error message and do one of the following: Update the reporting or give an explanation why this is correct. The Control Area is located below the input area for profiles (cell area H118:U153) in each profile sheet.

