

# Improved information on [flow.gassco.no](https://flow.gassco.no)

Introduction to the main changes



## Introduction to main changes

- **Publication of real-time flow :**
  - Aggregated other Exit Points (Norwegian exit points and field injection)
  - Aggregated Entry Points
  - The delta between the Aggregated Entry Points and Aggregated Exit Points (system flow balance)
- **Publication of unplanned events:**
  - Include a new “reduced availability within day and day-ahead” which will be provided after shipper curtailment
  - Earlier publications of unplanned events, before information is available on the impact of the event.
- **Planned event:**
  - Reduced threshold from 20 to 5 MSm<sup>3</sup>
- **Publication of aggregated reduced availability:**
  - The total reduced availability, planned and unplanned, will be published for within day and day-ahead

# Publication of real-time flow

FLOW INFORMATION REAL-TIME								LAST UPDATED 2018-03-22 08:11:59		
Dornum	Emden	Dunkerque	Zeebrugge	Easington	St. Fergus	Entry SEGAL	Other Exit Flows	Aggregated Entry Flow	Aggregated Exit Flow	System Flow Balance
53.61	54.11	49.85	43.2	75.11	17.1	23.17	5.39	330.21	322.95	9.13
M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d	M <sup>3</sup> /d

**Aggregated exit flow =** sum of all exit flows from the network including Dornum, Europipe Metering Station, Dunkerque, Zeebrugge, Easington, St Fergus/Vesterled, entry SEGAL system, Norwegian exit points and exit to field injection.

**Aggregated entry flow =** sum of all production into the relevant areas. (not directly linked to actual field production)

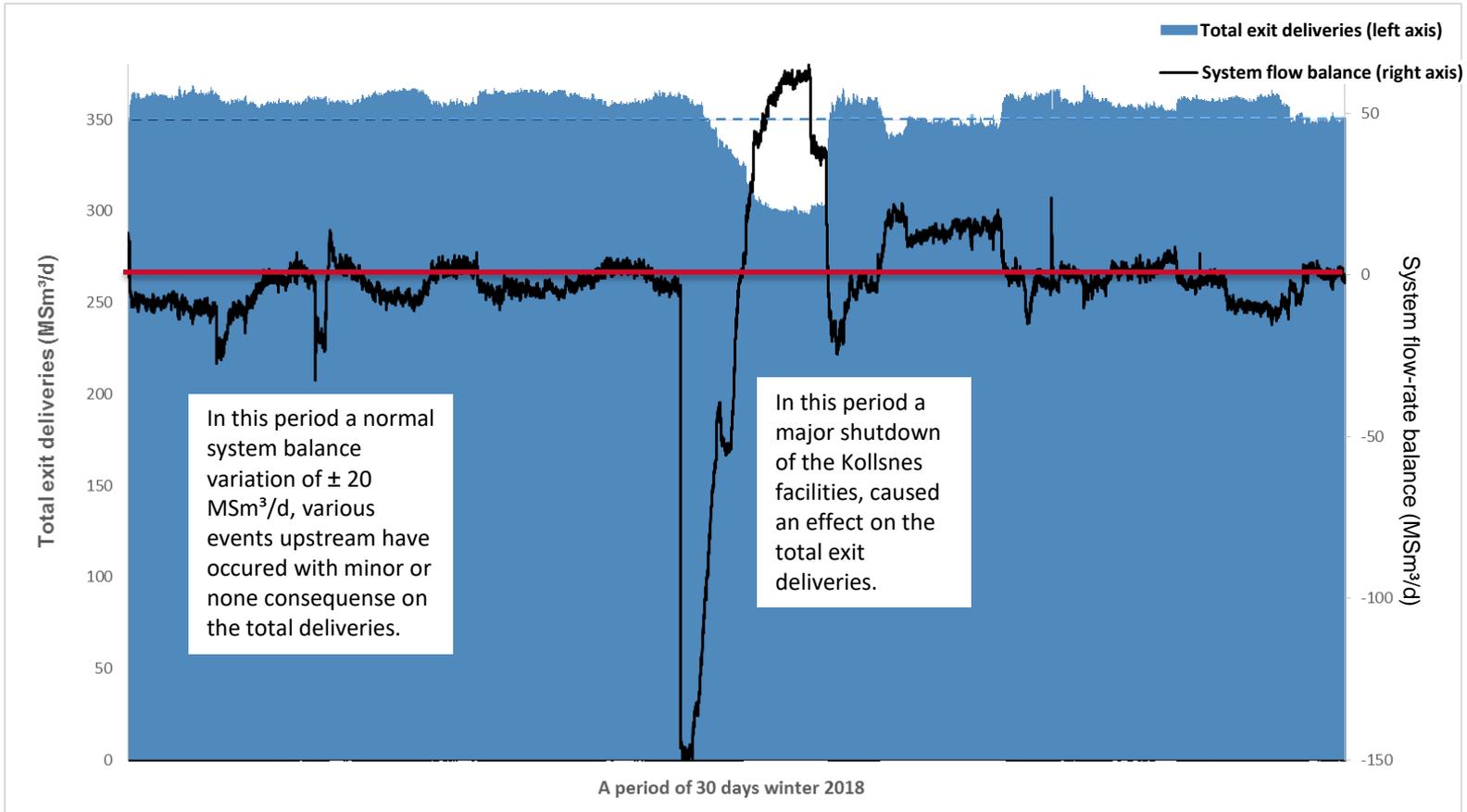
**System Flow Balance =** the delta between the Aggregated entry flow and Aggregated exit flow.

## Publication of real time flow of the system balance

The publication of real time flow includes entry flows, exit flows and system flow balance. This balance may vary during the day due to variations in field production, flow rates and use of operational flexibility. Changes in system flow balance could occur in normal operation or due to planned or unplanned events.

There are currently above 65 producing units delivering into the system, with variations in flow due to changing nominations, events at the field or events in the transportation system. Reductions with a short duration or a minor impact are dealt with through operational flexibility, since the field availability is given as a daily volume. Consequently, many of the events will have no volume impact, i.e. shippers are not curtailed and gas is delivered as planned.

# Example of the system flow balance for 30 days in winter 2018



# Publication of unplanned events

UNPLANNED EVENTS - FIELDS AND PROCESSING PLANTS											
Event id	Asset affected	Status	Published	Start of event	End of event	Volume impact (MSm <sup>3</sup> /d)		Reduced availability (MSm <sup>3</sup> /d)		Expected duration	Comments
						Within-day	Day-ahead	Within-day	Day-ahead		
2018-142	Gullfaks	Rev. 2	2018-03-13 15:12	2018-03-13 15:10		-9.4	0.0	-12.15	-2.5		
2018-39	Kårstø	Rev. 1	2018-03-07 08:55	2018-03-06 08:53		-3.4	0.0	-40.0	-40.0		
2018-38	field	No consequence	2018-03-21 07:55	2018-02-28 10:22		0.0	0.0	0.0	0.0		
2018-148	Heimdal	Rev. 1	2018-03-21 17:45			0.0	0.0	0.0	0.0		

## Status =

Describes the status of the event. Publications starts with a status “new”, then revised when more information becomes available. Publications of events with no impact will receive status “No consequence”. If the publication was a mistake or an error occur, the status will be updated with cancelled.

## Reduced availability =

Describes the reduction in maximum availability (capacity) on a specific field or part of the transportation system.

# Publication of aggregated reduced availability

AGGREGATED REDUCED AVAILABILITY	
Within-day: -40.15 MSm <sup>3</sup> /d	Day-ahead: -40.0 MSm <sup>3</sup> /d

**Aggregated reduced availability** = this is the net impact of all reduced availability, planned and unplanned

## Q & A

### **Why are Gassco changing the system?**

*We have together with the users of the system decided to provide more and improved information. This enable us to give coordinated and transparent information of planned and unplanned events.*

### **What are the main changes?**

*For unplanned events information will be provided earlier than today and before the actual impact are known. In addition more real-time flow information will be provided. The threshold for publication of planned maintenance is reduced with the consequence that more events than before will be published.*

### **What is system balance?**

*This is the real-time difference between gas entering and exiting our network. This balance may vary during the day without having any impact or consequences for the daily deliveries. The balance will typically vary more during days with larger unplanned events.*

## Q & A

### ***What is the aggregated entry flow?***

*This is the real-time flow of all gas entering the dry gas network and to the SEGAL system in UK. Some of the gas are entering the dry gas network via processing facilities, and therefore the real-time flow will not be directly linked to the actual field production facilities.*

### ***What is the reason for publishing reduced availability for unplanned events?***

*The reduced availability describes the reduction in maximum availability (capacity) on a specific field or part of the transportation system. This will give a better overview of the actual consequence, since existing publication of volume impact is based on nominations only.*

### ***What is the next step of improvement?***

*We are planning to provide more historical information related to flow data. More information will be available at a later stage.*