



List of changes in Elspot Area
Configurations from 17 November 2008



Background:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas in order to deal with major and long-term congestions in the regional and central grid system, or possible lack of energy in defined geographical areas (§5). Other area changes will also be published in this document.

Information:

Apart from the Exchange Info messages that describe the changes that have occurred, there are so called "Bus bar connection" files (kpnoYRWK.sdv) on NPS ftp-server that for each week show exactly which grid nodes/interconnectors that belong to a given Norwegian Bid Area.

Overview Norwegian Areas:

Change:	Valid:	Areas and city references:
Adjustment of Elspot/Elbas bidding areas in Norway	Monday 5 December 2011	NO1 - Oslo, NO2 - Kristiansand NO3 - Molde, Trondheim NO4 - Tromsø NO5 - Bergen
Adjustment of Elspot/Elbas bidding areas in Norway	Monday 5 September 2011	NO1 - Oslo, NO2 - Kristiansand NO3 - Molde, Trondheim NO4 - Tromsø NO5 - Bergen
Norway divided into five Elspot/Elbas areas	Monday 15 March 2010 - Sunday 5 September 2011	NO1 - Oslo, NO2 - Kristiansand NO3 - Molde, Trondheim NO4 - Tromsø NO5 - Bergen
Due to settlement technical reasons, the division between NO2 and NO1 where adjusted.	Monday 8 February 2010 - Sunday 14 March 2010	NO1 - Oslo, NO2 - Bergen, Kristiansand NO3 - Molde, Trondheim NO4 - Tromsø
Norway divided into four Elspot/Elbas areas	Monday 11 January 2010 - Sunday 7 February 2010	NO1 - Oslo, NO2 - Bergen, Kristiansand NO3 - Molde, Trondheim NO4 - Tromsø
Norway divided into three Elspot/Elbas areas	Monday 13 April 2009 - Sunday 10 January 2010 -	NO1 - Oslo, Bergen, Kristiansand NO2 - Molde, Trondheim, NO3 - Tromsø
Areas NO2 and NO3 merged to a new Elspot area NO2.	Monday 17 November 2008 - Sunday 12 April 2009	NO1 - Oslo, Bergen, Kristiansand NO2 - Molde Trondheim, Tromsø

Overview other Elspot Areas:

Change:	Valid from:	Areas and city references:
Launch of the new Estlink bidding area in Estonia.	Thursday 1 April 2010	Estonia - Tallinn
The German bidding area KONTEK in Nord Pool Spot's Elspot market closed down	Monday 10 November 2009	KONTEK

No. 64/2011 - Adjustment of Elspot/Elbas bidding areas in Norway

24-11-2011 12:15:00

Nord Pool Spot has received the following message from Statnett:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas (§5).

An adjustment of the interface between Elspot/Elbas areas NO2 and NO5 will take place Monday 05.12.2011 at 00:00, when the distribution area of Hardanger Energi will be relocated from NO5 to NO2.

The five Norwegian Elspot/Elbas areas are from 5 December 2011 defined by:

A southwestern Norway Elspot/Elbas area (NO2) limited by the

300 kV line Mauranger-Samnanger
420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker
300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
66 kV line Klyve-Sima
66 kV line Bu-Granvin
22/66 kV transformer Granvin station
22/11 kV transformer Hakestad (Ulvik) station

where the first mentioned nodes are located in the southwestern area (NO2).

A southeastern Norway Elspot/Elbas area (NO1) limited by the

420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker

300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
300 kV line Fardal-Aurland
300 kV line Vågåmo-Øvre Vinstra
66 kV line Sima-Klyve
132 kV single busbar at Litjfossen

where the second mentioned nodes are located in the southeastern area (NO1).

A western Norway Elspot/Elbas area (NO5) limited by the

132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Samnanger-Mauranger
300 kV line Fardal-Aurland
66 kV line Granvin-Bu
66/22 kV transformer Granvin station
11/22 kV transformer Hakestad (Ulvik) station

where the first mentioned nodes are located in the western area (NO5).

A middle Norway Elspot/Elbas area (NO3) limited by the

300 kV line Vågåmo-Øvre Vinstra
132 kV single busbar at Litjfossen
132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Verdal-Tunnsjødal
300 kV line Namsos-Tunnsjødal

where the first mentioned nodes are located in the area in middle Norway (NO3).

A northern Norway Elspot/Elbas area (NO4) north of NO3.

Statnett will emphasize that the divisions between the areas are referring to electrical nodes in the transmission system and are not to be understood as a geographical division.

This area definition will remain until further notice.

Lysaker, 24 November 2011 12:15 CET

For further information, please contact Statnett:

For questions regarding system operation:

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For questions regarding balance settlement:

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No. 29/2011 - Adjustment of Elspot/Elbas bidding areas in Norway

Nord Pool Spot has received the following message from Statnett:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas (§5) as part of managing:

- Major and long-term operational congestions occurring in the regional and central grid system
- Foreseen energy deficit situations in defined geographical areas.

On Monday 5 September 2011, when the new 300 kV line between Sauda and Saudal in the north Ryfylke area is put in operation, a change in the Norwegian Elspot/Elbas area definitions will take place. This line will strengthen the current NO2-NO5 corridor, though congestions and potential energy deficit situations are expected to remain for the Bergen area and the county of Sogn&Fjordane.

Accordingly NO5 continues as a bidding area, but with the interface between NO2 and NO5 moved north to the line between Mauranger and Samnanger, in the southern part of the Hardanger region. Other Elspot/Elbas area interfaces are not affected.

The five Norwegian Elspot/Elbas areas are from 5 September 2011 defined by:

A southwestern Norway Elspot/Elbas area (NO2) limited by the

300 kV line Mauranger-Samnanger
420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker
300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
22 kV line Stanavegen-Fresvik

where the first mentioned nodes are located in the southwestern area (NO2).

A southeastern Norway Elspot/Elbas area (NO1) limited by the

420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker
300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
300 kV line Fardal-Aurland
300 kV line Vågåmo-Øvre Vinstra
66 kV line Klyve-Sima
132 kV single busbar at Litjefossen

where the second mentioned nodes are located in the southeastern area (NO1).

A western Norway Elspot/Elbas area (NO5) limited by the

132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Samnanger-Mauranger
300 kV line Fardal-Aurland
66kV line Klyve-Sima
22kV line Fresvik-Stanavegen

where the first mentioned nodes are located in the western area (NO5).

A middle Norway Elspot/Elbas area (NO3) limited by the

300 kV line Vågåmo-Øvre Vinstra
132 kV single busbar at Litjfossen
132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Verdal-Tunnsjødal
300 kV line Namsos-Tunnsjødal

where the first mentioned nodes are located in the area in middle Norway (NO3).

A northern Norway Elspot/Elbas area (NO4) north of NO3.

Statnett will emphasize that the divisions between the areas are referring to electrical nodes in the transmission system and are not to be understood as a geographical division. This area definition will remain until further notice. Information on production, consumption and hydrology will be released before the adjustment takes place.

Lysaker, 23 May 2011 15:00 CET

For further information, please contact Statnett:

For questions regarding system operation:

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For questions regarding balance settlement:

Morten Torgalsbøen, adviser, phone + 47 23 90 34 92

No. 16/2010 NPS - Estlink capacity owners support the opening of the Estlink bidding area

Two of the owners of the Estlink capacity, Latvenergo and Eesti Energia, have offered Estlink capacity to the new Estonian market established by Nord Pool Spot.

- The agreement to let capacity to the Estonian and Finnish transmission system operators Elering and Fingrid means that now there is enough capacity for opening the Estlink bidding area, says Karri Mäkelä, director operations in Nord Pool Spot.

Negotiations about capacity are still going on, with the possible outcome of even more capacity being allotted to the new market before it opens. Nord Pool Spot will inform the market about the final capacity on 22 March 2010.

- Latvenergo and Eesti Energia are showing their support to the process of establishing a future Baltic market through sharing their capacities with the open market, says Mäkelä.

Nord Pool Spot will launch the new Estlink bidding area in Estonia on 1 April 2010. The new area will connect Estonia to the Nordic power market, offering Baltic participants a liquid market and a trustworthy reference price. The long term goal is to create a Baltic market connected to the Nordic market through Nord Pool Spot.

About Nord Pool Spot

Nord Pool Spot runs the largest electrical energy market in the world, offering both day-ahead and intraday markets to its participants. 330 companies from 20 countries trade on the exchange. The Nord Pool Spot group has offices in Oslo, Helsinki, Stockholm, Fredericia (Denmark) and London. Nord Pool Spot is owned by the Nordic transmission system operators. In 2009 the group had a turnover of 287 TWh representing a value of EUR 10.8 billion.

Lysaker, 8 March 2010 12:55 CET



No. 11/2010 NPS - New Elspot/Elbas bidding area in Norway

Nord Pool Spot has received the following message from Statnett:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas in order to deal with major and long-term congestions in the regional and central grid system, or possible lack of energy in defined geographical areas (§5).

On Monday 15 March 2010, the Elspot/Elbas areas of Norway will be changed according to the following:

Norway will be divided into five Elspot/Elbas areas, where NO5 is a western area consisting of parts of previous NO1 and NO2. The western area (NO5) is established due to the low reservoir content in western Norway and possible lack of energy. In periods the system reliability will be reduced to increase the import to the area.

The five Elspot/Elbas areas are defined by:

A southwestern Norway Elspot/Elbas area (NO2) limited by the

300 kV line Nesflaten-Sauda
300 kV line Hysten-Sauda
420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker
300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
22 kV line Stanavegen-Fresvik

where the first mentioned nodes are located in the southwestern area (NO2).

A southeastern Norway Elspot/Elbas area (NO1) limited by the

420 kV line Rød-Hasle
420 kV line Rjukan-Sylling
300 kV line Vemork-Flesaker
300 kV line Tokke-Flesaker
300 kV line Hof-Flesaker
132 kV line Grønnvollfoss-Skollenborg
132 kV line Hof-Skollenborg
300 kV line Fardal-Aurland
300 kV line Vågåmo-Øvre Vinstra
66 kV line Klyve-Sima
132 kV single busbar at Litjfosken

where the second mentioned nodes are located in the southeastern area (NO1).

A western Norway Elspot/Elbas area (NO5) limited by the

132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Fardal-Aurland
300 kV line Sauda-Nesflaten
300 kV line Sauda-Hysten

66kV line Klyve-Sima
22kV line Fresvik-Stanavegen

where the first mentioned nodes are located in the western area (NO5)

A middle Norway Elspot/Elbas area (NO3) limited by the

300 kV line Vågåmo-Øvre Vinstra
132 kV single busbar at Litjfossen
132 kV double busbar at Åskåra, with one busbar in each area (NO5 and NO3)
300 kV line Verdal-Tunnsjødal
300 kV line Namsos-Tunnsjødal

where the first mentioned nodes are located in the area in middle Norway (NO3).

A northern Norway Elspot/Elbas area (NO4) north of the area defined above.

Statnett will emphasize that the divisions between the areas are referring to electrical nodes in the transmission system and are not to be understood as a geographical division.

This area definition will remain until further notice.

Lysaker, 23 February 2010



No. 02/2010 NPS - Revised Elspot/Elbas area division valid from Monday 8 February 2010

Nord Pool Spot AS has received the following message from Statnett:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas in order to deal with major and long-term congestions in the regional and central grid system, or possible lack of energy in defined geographical areas (§5).

As announced in Exchange information no. 104/2009, Norway was divided in four Elspot/Elbas areas valid from 11.1.2010. Due to settlement technical reasons, the division between NO2 and NO1 will be somewhat adjusted. The 66 kV (50 kV) line Granvin-Bu will be replaced by the 66 kV (50 kV) line Klyve-Sima and the 66 kV line T/Gravenfoss-Gomsrud will be replaced by the 132 kV line Grønnvollfoss-Skollenborg and the 132 kV line Hof-Skollenborg.

On Monday 8 February 2010, the Elspot/Elbas areas of Norway will be changed according to the following:

Norway will be divided into four Elspot/Elbas areas, defined by:

- A southwestern Norway Elspot/Elbas area (NO2) limited by the

- 420 kV line Rød-Hasle
- 420 kV line Rjukan-Sylling
- 300 kV line Vemork-Flesaker
- 300 kV line Tokke-Flesaker
- 300 kV line Hof-Flesaker
- 300 kV line Modalen-Refsdal
- 132 kV line Grønnvollfoss-Skollenborg
- 132 kV line Hof-Skollenborg
- 66 kV (50 kV) line Klyve-Sima

where the first mentioned nodes are located in the southwestern area (NO2) and the second mentioned nodes are located in the southeastern area (NO1).

- A southeastern Norway Elspot/Elbas area (NO1) limited by the

- The nodes listed up above
- 300 kV line Øvre Vinstra-Vågåmo, where the node Ø.Vinstra is located in the southeastern area (NO1)
- 132 kV single busbar at Litjfossen,
- 132 kV double busbar at Åskåra, with one busbar in each area (NO1 and NO3)

- A middle Norway Elspot/Elbas area (NO3) limited by the

- 300 kV line Vågåmo-Øvre Vinstra line
- 132 kV single busbar at Litjfossen
- 132 kV double busbar at Åskåra, with one busbar in each area (NO1 and NO3)
- 300 kV line Verdalen-Tunnsjødal
- 300 kV line Namsos-Tunnsjødal

where the first mentioned nodes are located in the area in middle Norway (NO3).

- A northern Norway Elspot/Elbas area (NO4) north of the area defined above.

Statnett will emphasize that the divisions between the areas are referring to electrical nodes in the transmission system and are not to be understood as a geographical division.

This area definition will remain until further notice.

Lysaker, 21 January 2010

No. 104/2009 New bidding area for Elspot/Elbas valid from Monday 11 January 2010

Nord Pool Spot AS has received the following message from Statnett:

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas in order to deal with major and long-term congestions in the regional and central grid system, or possible lack of energy in defined geographical areas (§5).

As described in Exchange information no. 45/2009, UMM of 14.10.2009 and UMM of 20.11.2009, the thermal transmission capacity on 420 kV line Rød-Hasle is permanently reduced to 65% compared to previous capacity (before April 2008). The capacity reduction will remain until new investments across the Oslo-fjord takes place. The Flesaker-corridor had earlier a capacity of 3100 MW. Due to the thermal capacity reduction of 420 kV line Rød-Hasle, the Flesaker-corridor has now a capacity of about 2000 MW.

Statnett has informed before the Rød-Hasle line was put into operation 16.10.09, that reduced transmission capacity NO1-SE would occur when one or both of the following conditions took place:

- Import from Denmark and the Netherlands and export to Sweden through Hasle (transit).
- Unfavorable distribution of production between the two transmission corridors Flesaker and Hallingdal.

The two conditions vary considerably and are unknown at the time for capacity allocation. The extent of capacity reduction in Hasle in order to control the flow on Rød-Hasle has been larger than expected. Due to these facts, Statnett will introduce an additional Elspot/Elbas area in southern Norway. This new area will contribute to a better utilization of transmission capacity and production, particularly in the eastern part of South Norway, and also to a better control of the load flow on Rød-Hasle.

On Monday 11 January 2010, the Elspot/Elbas areas of Norway will be changed according to the following:

Norway will be divided into four Elspot/Elbas areas, defined by:

- A southwestern Norway Elspot/Elbas area (NO2) limited by the

- 420 kV line Rød-Hasle
- 420 kV line Rjukan-Sylling
- 300 kV line Vemork-Flesaker
- 300 kV line Tokke-Flesaker
- 300 kV line Hof-Flesaker
- 300 kV line Modalen-Refsdal
- 66 kV (50 kV) line Granvin-Bu
- 66 kV line T/Gravenfoss-Gomsrud

where the first mentioned nodes are located in the southwestern area (NO2) and the second mentioned nodes are located in the southeastern area (NO1).

- A southeastern Norway Elspot/Elbas area (NO1) limited by the

- The nodes listed up above
- 300 kV line Øvre Vinstra-Vågåmo, where the node Ø.Vinstra is located in the southeastern area (NO1)
- 132 kV single busbar at Litjefossen,
- 132 kV double busbar at Åskåra, with one busbar in each area (NO1 and NO3)

- A middle Norway Elspot/Elbas area (NO3) limited by the

- 300 kV line Vågåmo-Øvre Vinstra line
- 132 kV single busbar at Litjefossen

- 132 kV double busbar at Åskåra, with one busbar in each area (NO1 and NO3)
- 300 kV line Nea-Jerpstrømmen
- 300 kV line Verdal-Tunnsjødal
- 300 kV line Namsos-Tunnsjødal

where the first mentioned nodes are located in the area in middle Norway (NO3).

- A northern Norway Elspot/Elbas area (NO4) north of the area defined above.

Statnett will emphasize that the divisions between the areas are referring to electrical nodes in the transmission system and are not to be understood as a geographical division.

This area definition will remain until further notice.

Lysaker, 7 December 2009



No. 89/2009 The bidding area KONTEK shut down and CBO service terminated for delivery date 10 November 2009

Due to the launch of the EMCC market coupling between Denmark and Germany on 9 November, the **German bidding area KONTEK in Nord Pool Spot's Elspot market will be closed down. The last date the KONTEK area will be open for bidding is on Sunday 8 November 2009, for delivery on Monday 9 November 2009.**

As a consequence of market coupling, the CBO service on the connection Denmark West (DK1) - Germany will be shut down on 10 November. All CBO agreements with participants will be terminated effective as of the same date.

Nord Pool Spot wishes to express gratitude to all participants who have actively provided bids and offers in the KONTEK bidding area for the past four years. That support, combined with the implicit auction mechanism that has been in place between the KONTEK and the Danish bidding areas in Elspot, has provided a more efficient usage of interconnector capacity across the Danish-German border. It has as such also worked as an efficient intermediary step towards the more complete implicit auction market coupling that now will be put in place between the Nord Pool Spot and EPEX spot markets via EMCC.

Lysaker, 30 October 2009

No. 32/2009 New bidding area for Elspot/Elbas valid from Monday 13 April 2009

Nord Pool Spot AS has received the following message from Statnett:

On Monday 13 April 2009, the Elspot/Elbas areas of Norway will be changed according to the following:

Norway will be divided into three Elspot/Elbas areas:

- A southern Norway Elspot/Elbas area (NO1) limited by the 300kV Øvre Vinstra-Vågåmo line, the 132 kV busbar at Litjossen, and the 132 kV busbar at Åskåra.
- A middle Norway Elspot/Elbas area (NO2) limited by the 300kV Øvre Vinstra-Vågåmo line, the 132 kV busbar at Litjossen, the 132 kV busbar at Åskåra, the 300kV Nea-Jerpstrømmen line, the 300 kV Tunnsjødal-Verdal line and the 300kV Tunnsjødal-Namsos line.
- A northern Norway Elspot/Elbas area (NO3) north of the area defined above.

The area division will remain until further notice.

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot/Elbas areas in order to deal with major and long-term congestions in the regional and central grid system, or possible lack of energy in defined geographical areas (§5). The combination of low reservoir content in Middle Norway and temporary reduction of import capacity in connection with the construction of a new 420 kV line between Middle Norway and Sweden can cause congestions in the system.

Lysaker, 2 April 2009



No. 78/2008 NO2 and NO3 will be merged to a new Elspot area NO2

Nord Pool Spot AS has received the following message from Statnett:

On Monday 17 November 2008, the Elspot areas of Norway will be changed according to the following:

- **Area NO1 no change.**
- **Areas NO2 and NO3 will be merged to a new Elspot area NO2.**

Norway will then be divided in two Elspot areas:

- A Southern Norway Elspot area (NO1) limited by the 300kV Øvre Vinstra-Vågåmo line, the 132 kV bus bar at Litjfossen and the 132 kV bus bar at Åskåra.
- A Central/Northern Norway Elspot area (NO2) north of the area defined above.

The area division will remain until further notice.

According to provisions for system responsibility in the power system (FoS), Statnett shall define Elspot areas in order to deal with major and long-term bottlenecks in the regional and central grid system.

The hydrological situation in Central Norway is for the time being satisfactorily. Primo November 2008, Statnett will put into operation two new Static Var Compensators in Central Norway, thus completing the investments in reactive power installations. Statnett therefore do not foresee any need for a separate Elspot area in Central Norway the upcoming months.

Statnett continuously monitors the situation and will re-establish a separate Elspot area in Central Norway if the energy situation should require it.

Lysaker, 24 October 2008

