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| Minutes Nordic TSO XML format meeting Date: Monday January 19 th , 2009 Time: 09:30 - 16:00 Place: Gardermoen |  |
| January 20 th , 2009 | |

Participants: Christian Odgaard, Energinet.dk
Jan Owe, SvK
Jon-Egil Nordvik (Convenor)
Mikael Kristensen, Energinet.dk
Ove Nesvik, EdiSys (Secretary)
Roar Grindstrand, Statnett
Willem Karel D van der Meijden, Energinet.dk

CC: Antti Niemi, Nord Pool Spot
Christian Hoang Huy Le, Statnett
Heli Anttila, Fingrid
Jan-Olov Lundberg, SvK
Jari Hirvonen, Fingrid
Oscar Ludwigs, SvK
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool

Attachment: *As input to an introduction to the capacity process:*

- Principles for determining the transfer capacity in the Nordic market - NORDEL.pdf

As input for the description of the scheduling process:

- BTdocumentBusinesstransactionsforsubmittingnotificationsandschedules.pdf (DK)
- BSdocumentHandlingofnotifications.pdf (DK)
- GMP-Läsanvisning-Befintlig Edieldokumentation-c.doc (SE)
- BA_avtal2009.pdf (SE)

1 Approval of agenda

The agenda was approved with the following additions:

- 9.1, ECP

2 Approval of previous meeting minutes

The minutes were approved with the following comments/additions:

- The heading should have been named *Minutes* (instead of *Agenda*).

3 Matters arising from NEG meeting December 8th 2008

An Extract from Minutes from NEG meeting December 8th 2008 can be found in Appendix B,

3.1 Phase 1

The following technical issues will be completed:

- A general description of transfer capacities will be added in the introduction. This will be based on relevant text in the TSO ECAN IG and the NORDEL document *Principles for determining the transfer capacity in the Nordic market* (Attached).
- The relevant NOIS process will be described in an appendix, as an example of technical implementation, i.e.:

- Readable for business people.
- The TSOs are sending proposals for ATC and receiving approved results from NOIS.
- A sequence diagram will be added.
- In the example *NOIS* will be used instead of *International system Operator* and *SvK* will be used as the TSO.
- The role *NOIS* will be replaced with *International System Operator* throughout the document.
- Comments from Fingrid will be handled by adding more text in the introduction and the example in an appendix.

The following text from the NEG minutes will be taken ad notam:

Technical implementation method is based on UN/CEFACT and deviates from ETSO practice. NEG should actively promote the UN/CEFACT approach by highlight this to the MK and in other channels. UN/CEFACT should be decided as the standard guideline given by the ETSO MC/Board for format implementation within ETSO / ENTSO-E

3.2 Phase 2

The main objective of the Nordic TSO XML format project phase 2 is to extend the current BRS, RSM and related XML schemas with the scheduling process, including both financial and operational schedules, covered by the ESS and ERRP documents from ETSO.

Activities:

- A) Extend the current BRS, RSM and related XML schemas with the scheduling process, including both financial and operational schedules, covered by the ESS and ERRP documents from ETSO.
- B) Detailing of the communication appendix.
- C) Agree on how to identify schedules, i.e. should the new principles for time series identification in Sweden influence the project?
- D) Prepare for implementation verification of schedules between the Nordic TSOs.

These activities will be the main items in the project during spring 2009 and will be taken more or less in the sequence above.

A member from NordPool should take part in the project.

3.3 Request from NEG for an overall project plan

NEG had asked the project to make an overall project plan, including:

- Description of the overall objective of the project: E.g. “Objective to introduce business model and XML implementation for all communication in the industry.”
- Describe the overall plan, i.e. content of phase 1, phase 2, phase 3 etc.
- NB: CUS process should only be mentioned as a potential additional phase dependent on political decisions.

Ove was asked to make a proposal for the overall project plan, i.e.:

- Phase 2 (spring 2009), Scheduling process,
- operational and financial
 - balancing and reserves

Phase 3 (autumn 2009), Bid process,

- Bid to the Balance regulation market
- Activation messages
- Bid process to the Spot market (dependent on NordPool)

Phase 4 (spring 2010), Settlement process

- Metered data
- Settlement result, including prices

Phase 5 (autumn 2010), Prices and other Nord Pool messages (dependent on Nord Pool)

The CUS process is a potential additional phase, dependent on political decisions, i.e. a common Nordic end user market.

Homework:

- Ove will add the overall project plan as an appendix that will follow agendas and meeting minutes.
- Jon-Egil will verify if (when) Nord Pool can participate in making the Bid process to the Spot market.

4 Determine transfer capacity

Homework from Christian can be found in Appendix C and Homework from Jan can be found in Appendix D

4.1 BRS (Business Requirements Specification)

The BRS was reviewed and updated page-by-page. In addition the following updates will be done as homework:

- Make a reference to the NORDEL document:
<http://195.18.187.215/docs/2/LCDCEDNBNADCPHCBHBGNLAHPPDBW9DBDGG9DW3571KM/Nordel/docs/DLS/2008-00049-01-E.pdf> and add text from the first part (overall principles for determine the capacities) in the introduction to the BRS.
- Replace NEG with Nordic TSO where applicable.
- The remaining issues listed in 3.1, *Phase 1* above.

4.2 RSM (Requirements Specification Mapping)

It was proposed to publish the RSM on www.ediel.org, as:

- UMM *Business Choreography View* and *Business Information View* in HTML format
- XML schemas

Homework:

Ove will send these to Carsten Skou (Energinet.dk) and ask him to publish them on www.ediel.org.

4.3 XML schemas

See above.

5 Scheduling process

5.1 BRS (Business Requirements Specification)

The scheduling process includes both the financial and the operational schedules, covered by the ESS and ERRP documents from ETSO. The following will be used as a basis for making the first proposal for a BRS for the scheduling process:

- The BRS will be based on:
 - ESS, as far as the ESS-process is suitable for the Nordic countries.
 - The DELFOR messages exchanged today
 - National processes described in national documents (see attachments)
- At least the following types of schedules will be covered:
 - Operational schedules, both intraday (up to 5 minutes ahead) and day-ahead.
 - Contains power values
 - Sent to the *System operator* for operational purposes
 - Sent from the *Production responsible parties*
 - Hourly (NO, DK, SE), quarterly (NO, SE) or 5 minutes based (DK)
 - Production schedules
 - Market schedules (high level schedules) sent to the *Settlement responsible*. Not used for operation.
 - Contains energy values
 - Sent from the *Production responsible parties*
 - Sent on hourly basis
 - Sent the day before.
 - Aggregated by:
 - *Station group* and/or *Balance area* (NO)
 - *Balance responsible party* (SE/DK)
 - Consumption schedules
 - Market schedules (high level schedules) sent to the *Settlement responsible* and not used for operation
 - From *Consumption responsible parties*
 - Hourly basis
 - Sent the day before.
 - Aggregated per *Balance area* and *Balance responsible party*
 - Consumption prognoses
 - Norway and Sweden: Only internal process.
 - Denmark: internally generated and received from *Consumption responsible parties* on hourly basis, the day before.
 - Production Prognoses
 - Ancillary services
 - Corridor and cut corridor schedules
 - The amounts (scheduled exchange) from Nord Pool are split on relevant corridors.

A definition:

A *Prognosis* is not binding for the sender and is not used directly in settlement and/or operational processes, while *Schedules* are binding and used directly in settlement and/or operational processes

Homework:

- Ove will make a first proposal for a BRS based on the above mentioned items.
- Denmark will come up with some information related to matching processes.

- All TSOs should come up with a list of Schedules, prognosis and matching documents, including characteristics, i.e.:
 - Roles from/to
 - Level of aggregation (aggregation object), e.g. *Production plant, Balance responsible party, Balance area.....*
 - Energy/power
 - Resolution (hour, quarter, 5 minutes)
 - Mandatory (binding) or optional
 - Must also zero time series be sent?
 -

5.2 RSM (Requirements Specification Mapping)

Will be handled later

5.3 XML schemas

Will be handled later

6 Detailing of the communication appendix.

Will be handled later

7 Agree on how to identify schedules

Will be handled later

8 Next meeting

- March 11th and 12th, 9:00-18:00, 9:00 – 15:30, Statnett (Wednesday), EdiSys (Thursday)
 - The presentation from Jan will be attached as a basis for discussion related to the identification of schedules.
- May 4th and 5th, Place and time to be decided.

9 AOB

9.1 ECP

There will be an ECP meeting Wednesday next week. A central item at this meeting will be a discussion if an ECP application shall be developed or if an ECP standard is enough. If an application is developed, the intention is to offer this also for the actors in the downstream market who communicates with TSOs.

NEG decided on their latest meeting (December 8th) that the Nordic TSO should vote against development of a common ECP application. The participants agreed to this point of view.

Appendix A TO BE DISCUSSED AND AGREED

1. Should the new principles for time series identification in Sweden influence this project?
2. Follow up on *Special rules related to document to NOIS*:
 - Reason codes have to be sent in a separate time series. The related quantities must always have a dummy value, but the value will be ignored by NOIS.

Appendix B EXTRACT FROM MINUTES FROM NEG MEETING DECEMBER 8TH 2008

1 NEG XML project status

Status Phase 1: Transfer Capacity

Business model is completed.

Technical implementation method is not completed and a description and an example will be included. The final version will be completed by in the next project meeting and will include the addition of:

- a general description of transfer capacities in the introduction.
- a description and an example of technical implementation
- remove reference to NOIS and introduce a role in stead
- review and analyze comments from Finngrid.

Technical implementation method is based on UN/CEFACT and deviates from ETSO practice. NEG should actively promote the UN/CEFACT approach by highlight this to the MK and in other channels. UN/CEFACT should be decided as the standard guideline given by the ETSO MC/Board for format implementation within ETSO / ENTSO-E

Phase 2:

The objective of the Nordic TSO XML format project phase 2 is to extend the current BRS, RSM and related XML schemas with the scheduling process, including both financial and operational schedules, covered by the ESS and ERRP documents from ETSO.

Activities:

- E) Extend the current BRS, RSM and related XML schemas with the scheduling process, including both financial and operational schedules, covered by the ESS and ERRP documents from ETSO.
- F) Detailing of the communication appendix.
- G) Agree on how to identify schedules, i.e. should the new principles for time series identification in Sweden influence this project?
- H) Prepare for implementation verification of schedules between the Nordic TSOs.

A member from NordPool should take part.

NEG members should cover own costs and $\frac{1}{4}$ of consultant cost $((20 \text{ days} * 10')/4 = \text{NOK } 50.000)$.

NEG approves phase 2 to commence (and look forward to the response).

Request from NEG:

Description of the overall objective of the project: E.g. "Objective to introduce business model and XML implementation for all communication in the industry."

Describe the overall plan, i.e. content of phase 1, phase 2, phase 3 etc.

NB: CUS process should only be mentioned as a potential additional phase dependent on political decisions.

Appendix C HOMEWORK FROM CHRISTIAN

Here are some small comments from Denmark regarding some of the issues, we should examine.

C.1 Acknowledgement message

First, Denmark will accept the common acknowledgement message (without Domain and so on)

I have attached the error codes we use in Denmark; we can with a little work manage all ETSO error codes.

C.2 Reason codes

I have tried to find out why reason codes and values are sent in separate time series - without success. Everyone, I have asked, thinks that it is a stupid way to do it, when it is possible to use reason codes - and nobody know why we continue the old way. We can speak to the Nois project, if we will suggest to change it.

C.3 The 45 minutes before the operational hour

The last issue, the 45 minutes before the operational hour had been impossible to find anyone who could help. Our operation department says that they send when there is a change in the capacity without respect any time limits (Of course they have to made trades if it is necessary). Neither persons from Nois project nor our operation system could answer about the time limits. I got a Nois paper regarding Capacity, where it ought to be. Try to find it!

From the attached document page 20 + 21

I am not sure this is the final suggestion.

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| 3 | Out | Time series | Validated Elspot trading capacity per TSO. Hourly values (MW). | Once per day | Next day, 24 hours |
| 8 | Out | Time series | Elbas trading capacity per TSO. Hourly values (MW). | Once or twice per day, whenever changes | Present and next day, 1-24 h |

Appendix D HOMEWORK FROM JAN

According to my sources at Svenska Kraftnät we are not using the Reason-part of the messages sent to NOIS. We are only using Reason in acknowledgement messages. I send an example of such an XML-file.



AK20081203123134
161.xml