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| Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM) Date: Wednesday and Thursday August 31 th and September 1 th , 2011 Time: 10:00-17:00 (18:00?) and 9:00 – 16:00 Place: Energinet.dk, Copenhagen |  Nordic Ediel Group |
| September 30 th 2011 | |

Participants: Antti Niemi, Nord Pool Spot
Jan Owe, SvK
Jari Hirvonen, Fingrid
Jon-Egil Nordvik (Convenor)
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, EdiSys (Secretary)

To: Participants
Christian Hoang Huy Le, Statnett
Christian Odgaard, Energinet.dk
Hanna Blomfelt, Nord Pool Spot
Jesper Gronlund, Fingrid
Roar Grindstrand, Statnett

CC: Jan-Olov Lundberg, SvK
Oscar Ludwigs, SvK
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool

Attachment: None

1 Approval of agenda

The agenda was approved.

2 Approval of previous meeting minutes

The minutes from previous meeting was approved.

3 Maintenance requests to ENTSO-E

Postponed homework from pervious minutes:

- DK will go through and find a better justification for NEMM2010/48-51
Status: The MRs will be skipped (withdrawn).
- Hanna will submit a request for EIC code for the Nord Pool spot market area
Status: Postponed, the item will be taken over by Antti
- Jon-Egil will ask Mike for the IG for the settlement process of RGCE, where different tariff types are used.
Status: No answer received – Jon-Egil will follow up.

The activity diagram related to NEMM/47 was updated in the BRS for schedules, to fit the ENTSO-E proposals for matching process. The *Intermediate confirmation report* was changed to *Anomaly report*, where the two time series not matching can be sent. NEMM/47 was withdrawn.

Ove had made a MR, NEMM 2011/93, for addition of *Corridor* in the *ECAN Capacity document*. The MR was reviewed and will be added to the next bulk of MRs to ENTSO-E.

Three MRs will be sent by Jon-Egil for the next ENTSO-E meeting in the end of September, i.e. NEMM/2011 86, 92 and 93.

Action:

- Jon-Egil will send NEMM/2011 86, 92 and 93 to ENTSO-E before the next meeting in the end of September.

4 BRS for Schedules

Homework from previous meeting:

- Ole and Jan will check internally the usage of arrow 6 in the sequence diagram for market schedules.
Action: An explanatory text was added to the schedule document.
- Ove updates the document according to comments in the document.
Status: Done

The BRS was reviewed and among others the *Status request document* was removed, since it is not used any more. Ove will do some final corrections:

- Remove comments related to MR's to ENTSO-E
- UCTE will be changed to continental Europe (without synchronous area)
- NORDEL will be changed to Nordic (without synchronous area)

Thereafter the BRS will be sent on 4 weeks circulation for comments to NEG.

Action:

- Ove will update the BRS for Schedules and sent it on 4 weeks circulation for comments to NEG.

5 BRS for Nordic trading system

Homework from previous meeting:

- Ole checks if there is a need for a reference to the bid document in the activation document.
Answer: Yes
- Ove updates the document according to previous meeting minutes and comments in the document.
Status: Done, with the following items to be verified (not done):
 - Make a proposal for exchange rates based on the NOIS message, but adding standard headers.
Action: Ove will make a proposal based on the SOW (chapter 10) document
 - Ove checks the consequence of moving to ECAN allocation result for the Spot market.
Action: Ove will make a proposal
 - "Split the *Time Interval element* into a *Start* and an *End* element, see maintenance request NEMM 2010-3" should be removed from the whole document since it has been rejected in ENTSO-E
Action: Ove will update

The BRS was reviewed and updated. Ove will do some final corrections before next NEMM meeting, e.g.:

- A bid identity will be used to identify bids in the activation document in the future system of Sweden.
- Reserve bid document:

- Denmark needs a code for Wind production. The current proposal from ENTSO-E is using Z04, Wind as a Reserve object.
- Ove will as homework make new MRs related to *ERRP Reserve Bid Document*, i.e. adding new codes for *Business type* and the new element *Business type detail*. Arguments for addition of the *Business type detail* element are that the *Resource object* cannot be used for aggregated data and is not in line with the Role model.
 - New Business types:
 - **Z??**, Commercial Bid
 - **Z??**, Reserve bid
 - New Business type detail codes:
 - **Z01**, Hydro
 - **Z02**, Nuclear
 - **Z03**, Thermal
 - **Z04**, Wind
 - **Z??**, Gas turbine and diesel
 - **Z??**, Other thermal
 - **Z??**, Consumption

Actions:

- Ove will update the BRS according to the items above and distribute to NEMM before next meeting.
- Jon-Egil will verify if a transformer station can be used as Border connection type in the Area specification document.
- Antti will review the processes and documents relevant for NPS.

6 BRS for Nordic settlement system (if the processes are available from NBS)

Nothing yet available that can be used by NEMM.

7 ENTSO-E ERRP WG status

No meeting yet. It seems that Jon-Egil, Ole and Fedder will participate from the Nordic countries. The call for participation has been extended, so the first meeting will probably not be before next year.

8 Implementation verification

Jan has had some mail exchanges with the Polish TSO, but so far no conclusions that can be used for NEMM implementation verification.

Nobody else had any new information. The item will be followed up at coming meetings.

9 Information to "entsoe.net"

No new information. The item will be followed up at later meeting.

10 CIM XML

Jari has not received any answers related to ENTSO-E plans to change from PSSE to CIM-XML. The item will be followed up.

11 Meteorological information

Jari mentioned that the CIM User Group has started up a project on meteorological data. Jari will follow up and report at the next NEMM meeting.

12 Review of project plan

Reviewed and updated

13 Information (if any)

Ove informed that there is an on-going discussion between ebIX[®] and ENTSO-E related to the Harmonised role model and a proposal for rename (and changed definition) of *Local Metering Point* to *Accounting point*.

Oscar, Jon-Egil and Fedder are currently full members of ENTSO-E TF-EDI, while Jari is a corresponding member.

Jan informed that Secondary control still is a manually activated reserve in the Nordic system. In continental Europe, which includes Jutland, the secondary control is an automatic activated control, also called LFC. The synchronous Nordic power system will implement an automatic activated secondary control, LFC. There are only a couple of decisions left and the LFC is expected to be implemented within about two years from today. This reserve will be shared between the Nordic countries. When automatic secondary control is implemented in the Nordic power system, the current manual secondary control will be renamed to tertiary control.

In addition Jan noticed that new terms will be introduced on initiative from ENTSO-E, i.e.:

- FCR** Frequency containment Reserve,
- FRR** Frequency Restoration Reserve and
- RR** Replacement Reserve

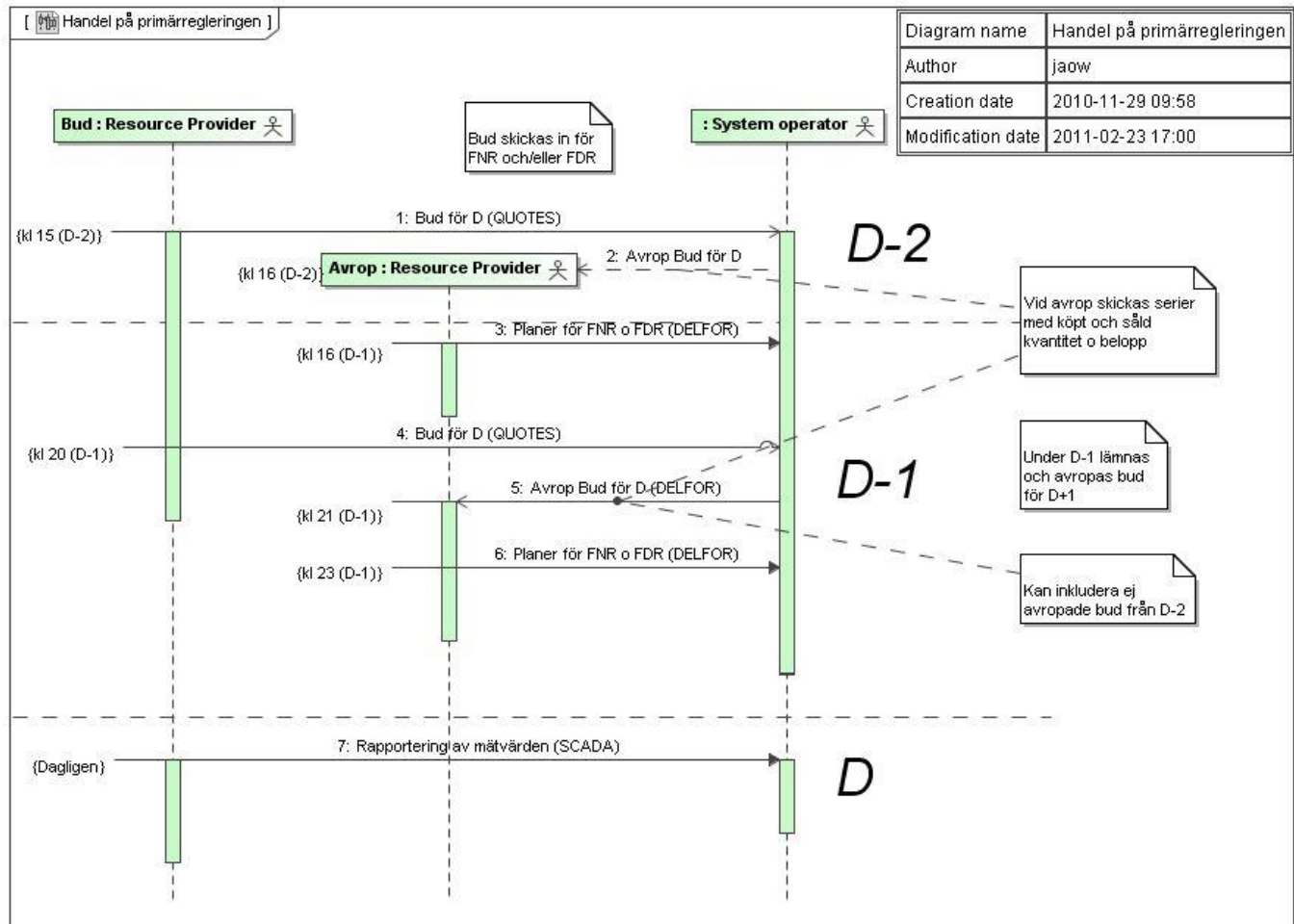
In the Nordic synchronous system the FCR will be primary regulations (FNR+FDR), and FRR will be the same as LFC and RR, i.e. manually activated reserves (tertiary reserves).

14 Next meeting

Tuesday and Wednesday, October 25th and 26th, Sundbyberg
Wednesday and Thursday, November 23rd and 24th, Oslo

15 AOB

Appendix A TRADE IN SWEDISH PRIMARY REGULATION FROM APRIL 2011



Appendix B 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 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.
3. Follow up on question to the HG on how to handle a *Quantity quality* (metered, estimated...) and “no-value” or “nil”.
4. The operation name for submission of a message in WS should specifically not be named SendMessage since this exact name is used as a reserved keyword in Microsoft BizTalk Server. If, and if so where, to put this recommendation should be decided.
5. ENTSO-E maintenance requests related to Danish reason codes

| | | |
|-----|-------------------------|---|
| Z01 | Operational | The given unit has a status of operational |
| Z02 | Reduced Operational | The given unit has a status of reduced operational |
| Z03 | Non Operational | The given unit has a status of non operational |
| Z04 | Revision | The given unit is under revision |
| Z05 | Suspended | The given unit is suspended |
| Z06 | Crashed | The given unit is crashed |
| Z07 | Discarded | The given unit is discarded |
| Z11 | Planned | The information provided has a status of planned |
| Z12 | Counterpart Imbalance | The information provided has a status of imbalance with a counterpart |
| Z13 | Internal Imbalance | The information provided has a status of internal imbalance |
| Z15 | Forced Adjustment | The information provided has status of a forced adjustment |
| Z16 | Forced Adjustment Final | The information provided has status of a forced adjustment and is final |
| Z17 | Final | The information provided is final |

Appendix C EXTRACT OF THE OVERALL PROJECT PLAN

The following 5 phases have been identified in the *Nordic TSO Market model project for data exchange*:

Phase 1 *Determine transfer capacity process*

Phase 1 was finalised spring 2009 regarding documents from the project group. However Maintenance Requests (MR) to ENTSO-E/WG-EDI is still in progress.

Phase 2 *Scheduling and Ancillary Services Process* covered by the ENTSO-E ESS and ERRP IGs

- operational and financial
- balancing and reserves
- In addition phase 2 include:
 - A document containing common rules and recommendations, *including* detailing of a communication platform
 - A document covering a common *Domain model* for the Nordic market.

Phase 2 was finalised spring 2010 regarding documents from the project group. However Maintenance Requests (MR) to ENTSO-E/WG-EDI is still in progress.

Phase 3 *Nordic trading system*

- Bid to the Balance regulation market
- Prices from the balancing market and spot market, and other Nord Pool messages
- Activation messages
- Bid process to the Spot market (dependent on NordPool)

Phase 3 started autumn 2009 and is still in progress. It is mainly processes related to Nord Pool Spot that are left.

Phase 4 *Settlement process*

Phase 4 started in spring 2010, but is currently awaiting the Nordic Balance Settlement (NBS))

Phase 5 *Implementation verification*

- Preparation for implementation verification of the documents between the Nordic TSOs and Nord Pool Spot

The Customer switching (CuS) process is a potential additional phase, dependent on political decisions, i.e. a common Nordic end user market.

For each of the phases mentioned above, a BRS will be made for the relevant business process. Change requests will be submitted for all identified differences between the Nordic processes and ENTSO-E/ebIX® standards.

| Activity | Spring 2009 | Autumn 2009 | Spring 2010 | Autumn 2010 | Spring 2011 | Autumn 2011 | Spring 2012 | Autumn 2012 |
|---------------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Phase 1, Determine transport capacity | [Shaded] | | | | | | | |
| BRS | [Shaded] | | | | | | | |
| Change request to ENTSO-E | [Shaded] | | | | | | | |
| Phase 2, Scheduling process | [Shaded] | | | | | | | |
| BRS | [Shaded] | | | | | | | |
| Change request to ENTSO-E | [Shaded] | | | | | | | |
| Phase 3, Nordic Trading System | [Shaded] | | | | | | | |
| BRS | [Shaded] | | | | | | | |
| Change request to ENTSO-E | [Shaded] | | | | | | | |
| Phase 4, Settlement process | Awaiting NBS (Nordic Balancing System) | | | | | | | |
| BRS | | | | | | | | |
| Change request to ENTSO-E | | | | | | | | |
| Phase 5, implementation verification | [Shaded] | | | | | | | |