


<b>Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM)</b> <b>Date:</b> Wednesday and Thursday April 11 <sup>th</sup> and 12 <sup>th</sup> , 2012 <b>Time:</b> 09:00-18:30 and 9:00 – 15:00 <b>Place:</b> Fingrid, Helsinki April 25 <sup>th</sup> , 2012	
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**Participants:** Jan Owe, SvK  
Jari Hirvonen, Fingrid  
Jon-Egil Nordvik (Convenor)  
Ole Fredsø Weigelt, Energinet.dk  
Ove Nesvik, EdiSys (Secretary)

**Invited guests:** Mikaela Holmström, [Mikaela.Holmstrom@fingrid.fi](mailto:Mikaela.Holmstrom@fingrid.fi)  
Timo Kiiveri, Fingrid, [timo.kiiveri@fingrid.fi](mailto:timo.kiiveri@fingrid.fi)

**To:** Participants  
Antti Niemi, Nord Pool Spot  
Christian Hoang Huy Le, Statnett  
Christian Odgaard, Energinet.dk  
Eveliina Ishii, Nord Pool Spot  
Hanna Blomfelt, Nord Pool Spot  
Roar Grindstrand, Statnett

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

**Attachment:** NBS\_project\_presentationENG.pptx, see item 3, NBS  
NBS\_expectations\_NEM.pptx, see item 3, NBS  
Meteorological information.pptx, see item 13, Meteorological information

### 1 Approval of agenda

The agenda was approved with the following additions:

- QUOTES IG, see 16.1 under AOB
- Preparation for NEG meeting May 3rd, see 16.2 under AOB
- Identification of Metering Grid Areas, see 16.3 under AOB

### 2 Approval of previous meeting minutes

The minutes from previous meeting were approved.

### 3 NBS

There were a joint meeting between NEMM and the NBS project. Timo opened the joint meeting by showing a presentation about the NBS-project.

The NBS project have an intention to go live with the new NBS system during 2014, but there is currently no decision of the actual date. One constraint is that the IT vendors will need 18 months for development of their interface. Timo mentioned that he hope that NEG can come up with an overall proposal for the document exchange, such as number of documents and which standard (ENTSO-E, ebIX<sup>®</sup> or other), by the end of August 2012. A detailed description of the documents to be exchanged will probably not be needed before beginning 2013.

NEG (NEMM) should also look into MADES and come up with a recommendation on the use of MADES for the NBS system.

The NBS Final Design report was gone through and sequence diagrams were made for all data flows described, including proposals for the document standard (ebIX<sup>®</sup> or ENTSO-E) to be used.

Further work within NEMM, until August 2012, will be:

- Verify internally within each TSO the TSO-position related to MADES and NBS. Alternatively what other communication means will be recommended.
- Verify open questions (which document types to use) with ebIX<sup>®</sup> EMD project.
- Propose activity diagrams for the different processes.
- Verify that the content of the suggested messages fits the NBS needs.

**Homework:**

- All will verify internally within each TSO the position related to MADES and NBS
- Ove will make a note presenting the sequence diagrams made during the meeting. The comments will be moved to a related word table to increase the readability and the questions to NBS and EMD. The note will be distributed to NBS and NEG.

#### **4 Maintenance requests to ENTSO-E**

*Homework from previous meetings:*

- Antti will submit a request for EIC code for the Nord Pool spot market area  
**Status:** Postponed
- Jon-Egil will resend NEMM 2011/35  
**Status:** The MR has been resent and is in the ENTSO-E pipe-line.
- Jon-Egil will inform ENTSO-E that NEMM 2011/84 is withdrawn  
**Status:** Done
- Ove will make a MR, NEMM 2012/96, for rename of the definition of **A10**, **A11** and **A12**, or alternatively addition of new codes **Z37**, **Z38** and **Z39**, for the ERRP Planned resource schedule  
**Status:** Done and will be forwarded to ENTSO-E by Jon-Egil

#### **5 BRS for Schedules**

The BRS is published.

#### **6 BRS for Nordic trading system**

*Homework from previous meeting:*

- Jon-Egil will raise the question in the ERRP project; if we should specify an *ERRP Auction specification document?*  
**Status:** In ERRP pipe-line. A status will be put on the next agenda
- Eveliina will make a proposal for definition of a Portfolio account.  
**Status:** See below

- Ove will update the BRS and distribute it to NEMM  
*Status:* Done

Suggestion for the portfolio identification definition from Eveliina:

**Portfolio** is an entity which links all bids from a participant, within one country and currency.

The definition was slightly changed:

**Portfolio:** An entity held by the Market Operator linking all bids from a participant, within one country and currency.

Also example xml files of hourly and block bids from Eveliina was reviewed. It was however decided to wait until closer to publication before adding these to the BRS.

Some comments made during review of the BRS for Nordic trading system:

- ECAN Allocation result document:
  - The text: *Used to distinguish between implicit and explicit auction results* related to the *Auction Identification element* was changed to “*Not used in the Nordic countries*”.
  - Domain and Subject party/role were made required
- Comments received by Eveliina were reviewed and the BRS, including the Spot Market Bid Document was updated.
- Ove will as homework rename Elspot/Elbas to Day-ahead/Intra-day throughout the whole document. If relevant with Elspot/Elbas in parentheses.

**Homework:**

- Ove will do some final updates before distributing the document to NEMM.
- Eveliina is asked to review the updated BRS for the Nordic trading system.

**7 Review of Appendix A, To be discussed and agreed**

*Homework from previous meeting:*

- Related to new principles for time series identification in Sweden after the introduction of UTILTS, Jan will verify as homework if the documents specified by NEMM will fit the information exchanged as EDIFACT document in Sweden today  
*Status:* Jan has started the work, but not finalised it. The item was postponed to next meeting.
- Ole will go through the codes below and see if all still are valid. And if valid; find which documents the codes belong to. On the next meeting NEMM will review the codes and decide if MRs will be sent to ENTSO-E

<b>Z01</b>	Operational	The given unit has a status of operational	The codes are used in Denmark in “ <i>four weeks prognoses</i> ”. The codes will probably fit into the ENTSO-E Outage Document (EOD). NEG will be asked for how to specify it, i.e. as a new BRS or an addition to the Schedule BRS.
<b>Z02</b>	Reduced Operational	The given unit has a status of reduced operational	
<b>Z03</b>	Non Operational	The given unit has a status of non operational	
<b>Z04</b>	Revision	The given unit is under revision	
<b>Z05</b>	Suspended	The given unit is suspended	
<b>Z06</b>	Crashed	The given unit is crashed	
<b>Z07</b>	Discarded	The given unit is discarded	
<b>Z11</b>	Planned	The information provided has a status of planned	Will not be used in the future, i.e. to be deleted.
<b>Z12</b>	Counterpart Imbalance	The information provided has a status of imbalance with a counterpart	
<b>Z13</b>	Internal Imbalance	The information provided has a status of internal imbalance	
<b>Z15</b>	Forced Adjustment	The information provided has status of a forced adjustment	
<b>Z16</b>	Forced Adjustment Final	The information provided has status of a forced adjustment and is final	
<b>Z17</b>	Final	The information provided is final	

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

Jan informed that a basis for the work related to the Nordic settlement can be found in the Design report from NBS, see [http://www.svk.se/Global/06\\_Energimarknaden/Pdf/EI/NBS\\_Final\\_Design\\_report\\_Dec\\_22\\_2011.pdf](http://www.svk.se/Global/06_Energimarknaden/Pdf/EI/NBS_Final_Design_report_Dec_22_2011.pdf), chapter 2.3. In this chapter it is shown who will send what to whom.

Sequence diagrams were made, where the messages defined in the NBS Final Design report are shown, together with proposed documents from ENTSO-E and ebIX®.

Question for NBS:

1. In chapter “2.3.3 Short time after gate closure”, item “3) Binding<sup>7</sup> bilateral trades and Nord Pool Spot trade are reported to SR according to TSO requirements”. Is this the total schedules (or trade) or should it be split into Elspot, Elbas and bilateral trade?
2. In chapter “2.3.4 Reporting metered data 2 – 9 working days after delivery day”, data exchange 4:2 and 4:7, metered production is reported. Is the production always positive or should we specify a code for “*N SR report reconciled energy & payment per Balancing Area Production / Consumption*”; From ENTSO-E code list definition: “*Net production/consumption - where signed values will be used. With the following rules: In area=Out area, In party=Out party, + means production and - means consumption*”?
3. What is included in document 5:1 in chapter “2.3.5 After the Balance settlement”, only a Settlement deviation?
4. Ref chapter “2.6 Balance settlement” where it is stated that “*Using the sign convention: consumption & sales = negative, production & purchase = positive*”. According to ENTSO-E and ebIX® rules all

observations in time series, with a few exceptions, shall be positive. If both positive and negative values are required this is handled using separate element for specifying the “sign”, such as:

- Two time series and implicit sign, using in- or out area, different business types or similar.
  - Using different quantity elements, i.e. In quantity and Out quantity.
  - Etc.
5. What is the content of data flow “7:2 QA data per MGA on reconciled energy”?
  6. What is the content of data flow “7:3. SR make available aggregated RE/BRP reconciled energy per MGA on consumption”? Is it sent as a document, published on web....?
  7. What is the content of data flow “7:4. SR report reconciled energy & payment per Balancing Area”?

Question for EMD:

1. What document to use for Load Profile Share (LPS) per MGA & BS / BRP? The LPS is sent as an energy volume for a month (one value only). Sent from the MDA to ISR, who forwards it to the BS and BRP.
2. What document to use for production time series per Metering Point, or Production Unit (Station group that may have more than one MP) from Metered Data Responsible to Imbalance Settlement Responsible (E66/E23 (Periodic meter reading) or E44 (Settlement))?
3. What document to use for a QA (quality assurance) report on area balance per MGA from Imbalance Settlement Responsible to Metered Data Responsible? The document contain two time series:
  - a) The imbalance within a MGA, i.e. the sum of production (positive), consumption (incl. loss) (negative) and exchange (import positive and export negative), when > 0.
  - b) The difference between what is received as exchange from two neighbouring MGAs. Using the principle of sink and source (or in-/out- area) to determine the direction.
4. What document to use for “Aggregated reconciled energy per MGA (consumption) per BS/BRP”, sent from the MDA to the RR (Reconciliation Responsible)?

**Homework:**

- Ove will send the “questions for EMD” to EMD (Vlatka and Kees) asking for comments and as a preparation for next EMD meeting.

## **9 ENTSO-E ERRP WG status**

Jon-Egil informed from ERRP:

- The need for having rules for how to go from the CIM Market extension to ENTSO-E documents, i.e. naming convention for elements and attributes, was discussed. There is already a document from ENTSO-E for doing this, but it is currently not working in an automated way.

## **10 Implementation verification**

No new items for implementation verification

## **11 Information from "entsoe.net"**

No news

## **12 CIM XML**

No news

### 13 Meteorological information

Jan showed a presentation (attached) related to different xml standards used for meteorological information. The reason for looking into standards for meteorological information is that Svenska Kraftnät have started two activities related to Meteorological information, together with the Swedish Meteorological and Hydrological Institute (SMHI):

- One activity is to receive wind production data, the content of that type of information message will not be decided until after our next NEMM meeting.
- But the other activity is a bit simpler and covers what is sent today by DELFOR and now will be changed to XML. I.e. forecasts and measured values.

Jan presented the following possibilities:

- One simple solution is just to take any XML file that SMHI can send, and is sending, to other parties. But the example file we have received is too simple – we need some sort of header.
- Another solution would be to describe a message structure following for instance CIM XML for Weather data or WXXM (Weather Information Exchange Model).
- A third solution would be to build a message structure on already available “core components” from other (similar) exchanges. Like metered data or plans in the energy business.
- A fourth solution would be to use a message structure in use by another TSO in the Nordic area, i.e. something that is running and follows the needs for at least that TSO.
- A fifth solution would be to use a message structure in use by another Meteorological institute in the Nordic area, but not at the moment in use by a TSO, but perhaps in use to other companies in the energy industry.

It looks like CIM for Weather is rather complex, but so far nobody within NEMM has looked deeply into it.

#### **Homework:**

- All will investigate the need and position for making a common Nordic (or wider) standard for meteorological information.
- All are asked to contact their national meteorological organisation, asking for their view of a standard for exchange of meteorological information.

### 14 Information (if any)

Jon-Egil reported from the latest ENTSO-E/WG-EDI meeting:

- Meteorological information has been discussed, i.e. how to receive weather forecast. Among others the CIM XML and the WXXM standards are discussed. No conclusion yet.
- WG-EDI was informed of a REMIT proposal for using Dodd-Frank (US act) coding scheme within the European energy market. ENTSO-E will try getting support from ACER for using EIC instead.
- Changes to ESS:
  - Curve type is added
  - It is possible to use multiple periods
  - All instances of “message” will be renamed to “document”
  - Domain is mandatory

Ove informed from the ebIX<sup>®</sup>, EFET and ENTSO-E Harmonisation group meetings that the next HG meeting has been postponed, due to the following reason:

*During the meeting of ENTSO-E WG EDI we've discussed the drafting of network codes related to the 3<sup>rd</sup> package of EU legislation on European electricity and gas markets (also item 5 of the HG meeting). We have discovered that the drafting teams are completely ignoring the existence of the Role Model. Some members of the drafting teams believe that the role model is restricted to EDI activities and that therefore it did not concern them. That means that new Roles and Domains are created which correspond more or less to existing ones in the Role Model but with different names. The timing for the creation of the network codes is very strict and there is a chance that we will have to review the complete Role Model. Therefore WG EDI members felt it is better to clarify this situation before spending too much time on the actual Harmonized Role Model. WG EDI will send a letter to the Market Committee to ask that the drafting teams would respect the Harmonized Role Model, which is approved by 3 organisations.*

## **15 Next meeting**

- June 4<sup>th</sup> and 5<sup>th</sup> in Stockholm
- June 26<sup>th</sup> 27<sup>th</sup> in Denmark
- August 21<sup>st</sup> and 22<sup>nd</sup>, Oslo

## **16 AOB**

### *16.1 QUOTES IG*

The QUOTES IG that has been out on circulation for comments from February 20<sup>th</sup> was updated with addition of new "document name codes" in BGM/C002 1001:

- SD1 Bid, daily market, day-1
- SD2 Bid, daily market, day-2

### **Homework:**

- Ove will ask the web master of [www.ediel.org](http://www.ediel.org) to update the web site.

### *16.2 Preparation for NEG meeting May 3<sup>rd</sup>*

The NEMM project plan was reviewed and updated.

A note from the NBS review will be distributed to NEG, see item 3, NBS.

A question will be raised asking for what to do with the ENTSO-E Outage Document (EOD), i.e. should NEMM make a new BRS for outage or a new chapter in the current schedule BRS? The Outage Document will be used in "four weeks prognoses" in Denmark and is used as an extended version within NOIS.

### *16.3 Identification of Metering Grid Areas*

Norway is discussing to establish new *Metering Grid Areas*, to be used instead of the current *Bulk Supply Codes* (komponent koder). Ove asked what identification scheme should be used (GS1, EIC or another)?

- Denmark, Finland and Sweden are using national codes for the MGAs.
- A consequence of choosing EIC will be that Statnett will have to be a Local Issuing Office (LIO) for EIC codes.
- If GS1 is chosen the coding scheme should be GSRN (18 digits).
- If EIC is chosen the coding scheme should probably be EIC-Y code (or alternatively EIC-W code)





## **Appendix A TO BE DISCUSSED AND AGREED**

1. 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.
2. Follow up on question to the HG on how to handle a *Quantity quality* (metered, estimated...) and “*no-value*” or “*nil*”.

## **Appendix B 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. During 2011 also Maintenance Requests (MR) to ENTSO-E/WG-EDI was finalised.

### **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 Elspot and Elbas markets

Phase 3 started autumn 2009 and is still in progress. Processes related to Nord Pool Spot are mainly finalised. For the other documents the details, such as dependency matrixes and codes to use, are still left.

### **Phase 4** *Settlement process*

Phase 4 started in spring 2010, but was postponed until a report from the Nordic Balance Settlement (NBS) project was available. The NBS phase was started in April 2012 and a first overall suggestion for messages to use will be finalised within end of August 2012. Thereafter detailed document specifications will be made during autumn 2012 and winter 2012/2013.

### **Phase 5** *Implementation verification*

- Preparation for implementation verification of the documents between the Nordic TSOs and Nord Pool Spot is a continuous task for the NEMM project.

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, 1 to 4, 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<sup>®</sup> standards.

