


Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM) Date: Tuesday and Wednesday June 26 th and 27 th , 2012 Time: 09:00-17:00 and 9:00 – 16:00 Place: Copenhagen July 6 th , 2012	
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Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, EdiSys (Secretary)
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Mats Elmér, SvK, (NBS)
Timo Kiiveri, Fingrid (NBS)
Pasi Lintunen, Fingrid (NBS)

Attachment: None

1 Approval of agenda

The agenda was approved.

2 Approval of previous meeting minutes

The minutes from previous meeting were approved with a layout correction of the Excel table on page 4.

3 NBS

Appendix B, Answers from Pasi to “Some unsolved issues” from NEMM was reviewed. Answers and conclusions can be found in the appendix.

Appendix C, NEMM group questions for NBS and proposed answers was also reviewed. The answers was taken into the BRS discussions, see item 4.

All had as homework from previous meeting to verify internally within each TSO the position related to MADES and NBS. The questions had been shortly discussed by all, but there is so far no clear position. The item will be put on the next NEMM agenda.

4 BRS for Nordic settlement system

The BRS was reviewed and updated.

The following needed changes were noted for the ebIX[®] documents:

1. NBS wants a Balance Supplier and a Balance Responsible Party in the following documents:
 - ebIX[®] Validated Data for Aggregator (E66, E44)
2. NBS need a Balance Supplier in the following documents:
 - ebIX[®] Aggregated Data per MGA for Settlement Responsible (E31, E44) for consumption and production
 - ebIX[®] Aggregated RE/BRP reconciled energy per MGA on consumption (E31, E44)
3. For exchange between MGAs, NBS need both Balance Responsible Parties in the following documents:
 - ebIX[®] Aggregated Data per MGA for Settlement Responsible (E31, E44) for exchange Metering Point

It is doubtful that ebIX will agree to add a Balance Supplier and a Balance Responsible Party in the ebIX[®] Validated Data for Aggregator (E66, E44). NEMM proposes instead to handle this as master data.

It is also doubtful that ebIX[®] will agree to add a Balance Responsible Party in the ebIX[®] Aggregated Data per MGA for Settlement Responsible (E31, E44) for exchange Metering Point. NEMM proposes to handle also this as master data.

NEMM will ask ebIX[®] for the additions addition, however only the addition of a Balance Supplier in the second item above (E31, E44) is expected approved.

5 Maintenance requests to ENTSO-E

The homework item from previous meetings was postponed:

- Antti will submit a request for EIC code for the Nord Pool spot market area

6 BRS for Schedules

Jan commented on chapter 6.2 in the BRS; Denmark can “Exchange production prognoses”. The message is then a “Planned resource schedule” (as when sending operation schedules). But what code(s) would be used as Document type? And are there other things in the “Planned resource schedule (chapter 7.2)” that should be noted as “this is only used for Exchange production prognoses”.

New process types were added to solve the question from Jan above.

Due to lack of time the review of the added Outage Document (Based on chapter 11 in NOIS/SOW) was postponed.

7 BRS for Nordic trading system

The homework item from previous meetings was postponed:

- Eveliina is asked to review the updated BRS for the Nordic trading system.

The question to the ERRP project; should we specify an *ERRP Auction specification document*? Has not been answered yet and will be put on the next agenda.

8 Review of Appendix A, To be discussed and agreed

The homework item from previous meetings was postponed:

- 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.

9 Status for ENTSO-E ERRP WG

Jon-Egil informed that the work is progressing. It seems that the WG will land on having two time series to specify a direction in “exchange time series”, also for breakpoints. The alternative, which Jon-Egil think is better, is to use positive and negative sign to specify the direction.

10 Implementation verification

Nothing new

11 Status and information from " EMFIP"

The EMFIP project is delayed.

12 Status CIM XML

Nothing new

13 Meteorological information

Ove informed from the latest IEC/TC57WG16 minutes:

CIM for Weather Proposal

- The CIM for Environmental Data project was reviewed. Representatives of the participants in the project were present: Southern California Edison (SCE), EPRI, and Open Grid Systems.
- Invited guest Jim Horstman, Manager of IT at SCE introduced the topic. He covered the business context and the needs for a CIM based environmental (weather) data exchange format.
- Invited guest, Henry Dotson, Project Architect summarized sample use cases that are applicable at SCE
- Invited guest, Alan McMorran, described the methodology used and the changes made to the existing CIM to support the exchange of Environmental Data. Sample profiles to support exchange of environmental data were reviewed.
- General discussions followed. The merits of directly adopting the WXXM standard as opposed to harmonization of the necessary parts of the two information models were discussed.
- It was concluded that WG-16 is interested in following up with this project, and sponsoring a NWIP to add this to the CIM. It was also noted that the Use Cases should be reviewed to make sure that the needs of European utilities are supported, and that the formats used by European weather data providers are considered. J. Waight to follow up (Action Item)
- The participants were thanked for efforts and presentations.
- Copies of the presentation materials and the SCE report are posted on the Sharepoint

Jon-Egil informed that the Norwegian meteorological institute, MET, has no experience with WXXM, but are starting up a project for making a standard XML format for MET. They think it's a good idea to cooperate with the energy industry when running this project. For the moment there is no cooperation between the Nordic meteorological institutes.

The homework from previous meeting will be continued:

- 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)

There was an ebIX[®], EFET and ENTSO-E Harmonisation group meeting last week, June 18th. ENTSO- E informed that there are several ENTSO-E Network Code Drafting Team, drafting network codes relevant for the 3rd energy package and these Network Code Drafting Teams have not necessarily any knowledge of the ebIX[®], EFET and ENTSO-E Harmonised Role Model. An example of an inconsistency is the invention of the domain *Price area* and the role *Market participant*. Due to the uncertain state of the terms to be used by the Network Code Drafting Team, WG-EDI had not prepared any new proposals for roles or domains for this HG meeting.

NordREG has sent a letter to the Nordic ENTSO-E Market Steering Group, asking them to establish a NEG project that can look into document exchanges in a common Nordic end user marked. The work should have a close cooperation with the Nordic national Ediel groups.

15 Next meeting

- Tuesday and Wednesday, August 21st and 22nd, probably in Helsinki, with a common session with NOIS (to be verified by Jon-Egil). Agenda items:
 - MADES

16 AOB

Jon-Egil informed that NOIS wants to add four “sub-reason codes” for special regulations in the *Reason text* element, connecting it to the reason code X14 Special regulation. To avoid having coded information in a text element, NEMM will propose to add three new codes to the *Reason code list* instead.

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 ANSWERS FROM PASI TO “SOME UNSOLVED ISSUES” FROM NEMM

The Nordic countries already have a common web site, www.ediel.org, where common documentation is published. Could we use this also for NBS documents?

Answer:

NBS project will published the project web pages at Q3/2012 and proposal is that common documentation would be published in those pages? Of course you can use own web pages for working material etc.

Conclusion from meeting 20120626:

We will decide where to put documents later, i.e. when it is ready for publication

Is a test application, such as the test application used by Norway and Sweden (www.ediel.no and www.ediel.se) needed for NBS?

Answer:

The test application is needed in NBS and do you have any proposals how to organise that?

Conclusion from meeting 20120626:

This is a task for NBS and will not be further elaborated within NEMM.

Also a Nordic maintenance organisation is needed, but how to organise such a body must be further investigated. Today the Nordic countries have national groups that discuss and agree changes. How to organise the interface between the national groups and a common Nordic group needs investigation. It is however pretty clear that there should be one common Nordic group, which is responsible for the technical documentation.

Answer:

More investigation for Nordic maintenance organisation is needed. This have to be discussed more in our project.

Conclusion from meeting 20120626:

This is mainly a task for NBS and NEMM is not doing anything with it for the time being

The next NEMM meetings are scheduled for June 26th and 27th in Copenhagen and August 21st and 22nd in Oslo. If possible, we would appreciate participation from NBS on one of the two days on both meetings. Please let me know if this is possible.

Answer:

Both me and Timo are on vacation on those days, but I will discussed with Mats and Morten about that participation and we will return to this after Friday.

Conclusion from meeting 20120626:

Morten Torgalsbøen represented NBS at the meeting.

Appendix C NEMM GROUP QUESTIONS FOR NBS AND PROPOSED ANSWERS

Question 1: In chapter “2.3.3 Short time after gate closure”, item “(3) Binding⁷ 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?

Answer 1:

Elspot, Elbas and bilateral trades will be reported separately either on retailer per balance responsible party (RE per BRP) or balance responsible party (BRP) level so all trades should be split into Elspot, Elbas and bilateral trade.

The BRP shall report one time serie for bilateral trade for each RE he represents. The format must therefore support and identify more than one time serie for bilateral trade between two BRPs.

One bilateral trade between two REs shall be reported both by the BRP representing the seller and the BRP representing the buyer. SR will compare these two series and has a rulebased selection of which to use in the case of differences in the reported data. This means that it must be possible for SR based on information in the messages to find out which two time series to compare.

Q2: 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*”?

A2: The NBS model requires that it should be possible to store time series both in positive and negative values. For example production in positive and consumption in negative values. This doesn't mean the messages have to include the negative and positive signs, but somehow it should be possible for the NBS IT-system interpret what are negative and positive values.

Q3: What is included in document 5:1 in chapter “2.3.5 After the Balance settlement”, only a Settlement deviation?

A3: All components needed for the calculation of the imbalance deviation will be reported to the respective BRPs. The reporting "channel" is open and it might be a web application, and/or API (e.g. web services) and/or something else data communication standard (xml etc.). The result of the balance settlement for a specific settlement day is calculated and reported every day until the ninth working day after the delivery day, thereafter the settlement is locked.

The components are:

- Production imbalance settlement energies and costs per BRP and Bidding Area (BA) and components related to imbalance calculation (Aggregated metered production per BRP and BA, Aggregated planned production per BRP and BA, Aggregated production regulation power per BRP and BA)
- Consumption imbalance settlement energies and cost per BRP and BA and components related to calculation (Aggregated planned production per BRP and BA, Aggregated metered consumption per BRP and BA, Calculated MGA imbalance (or BA), Aggregated Elspot and Elbas trade per BRP and BA, Aggregated bilateral trade per BRP and BA (also plan between BAs), Aggregated consumption regulation power Per BRP and BA).

What comes to the invoicing part the detailed information of the calculations will be available for the individual BRP on the SR web site. Such invoices will include fee on production, fee on consumption, fee on consumption imbalance, monthly fee, currency fee, bought imbalance production, sold imbalance

production, bought imbalance consumption, sold imbalance consumption, purchased regulation power on consumption balance, sold regulation power on consumption balance, purchased regulation power on production balance and sold regulation power on production balance (design report chapter 6.2 invoicing, page 30).

Q4: 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.
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A4: See above answer to Question 2.

Q5: What is the content of data flow “7:2 QA data per MGA on reconciled energy”?

A5: The content quality assurance (QA) data flow has not been decided yet, nor has the reporting channel.

Q6: 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....?

A6: The content of data flow has not been decided yet, nor has the reporting channel.

Q7: What is the content of data flow “7:4. SR report reconciled energy & payment per Balancing Area”?

A7: See above answer to Question 6.

Appendix D 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 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]			