Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM)	**NEG**
Date: Tuesday May 31st and Wednesday June 1th, 2011 **Time:** 9:00-18:00 and 9:00 – 16:00 **Place:** Oslo	**Nordic Ediel Group**
June 6th, 2011	

Participants: Christian Odgaard, Energinet.dk
Hanna Blomfelt, Nord Pool Spot
Jan Owe, SvK
Jari Hirvonen, Fingrid
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, EdiSys (Secretary)

To: Participants
Antti Niemi, Nord Pool Spot
Christian Hoang Huy Le, Statnett
Christian Odgaard, Energinet.dk
Jesper Gronlund, Fingrid
Jon-Egil Nordvik (Convenor)
Roar Grindstrand, Statnett

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

Attachment:

Microsoft Word 97 - 2003 Document

See item 3, Maintenance requests to ENTSO-E and Appendix A, Unsolved ENTSO-E MR

NEMM MR Overview 20110531.docx

See item 3, Maintenance requests to ENTSO-E

Final NBS main report January 12th.docx

See item 7, Review of draft BRS for Nordic settlement system (if a report from NBS is available)

Draft report phase II v4 SC.docx

See item 7, Review of draft BRS for Nordic settlement system (if a report from NBS is available)

Example1.zip

See item 15.1, SvK data exchange with PSE-Operator (PL), under AOB

Example2.zip

See item 15.1, SvK data exchange with PSE-Operator (PL), under AOB

Table_matching_xml-xls.xls

See item 15.1, SvK data exchange with PSE-Operator (PL), under AOB

1 Approval of agenda

The agenda was approved with the following additions:
- SvK data exchange with PSE-Operator (PL), see item 15.1 under AOB

2 Approval of previous meeting minutes

The minutes from the previous meeting were approved.

3 Maintenance requests to ENTSO-E

3.1 Review of result of latest ENTSO-E MR review:

The table containing a summary and status for MRS to ENTSO-E was reviewed, including the NEMM MRs reviewed by ENTSO-E at their latest meeting. The following homework were agreed, see Appendix A, Unsolved ENTSO-E MR:
- Fedder is asked to get a status from ENTSO –E for the following MRs:
  - NEMM 2010/35
  - NEMM 2011/67
- DK (Christian and Ole) is asked to review the following MRs.
  - NEMM 2010/48
  - NEMM 2010/49
  - NEMM 2010/50
  - NEMM 2010/51
  - NEMM 2010/86
- If needed a better justification will be made, e.g.:
  - When is the code used, brief process description
  - From role to role
  - Related object
  - Aggregation level
  - …

An overview of the MRs can be found in Appendix A. The MRs themselves can be found in attachment.

3.2 EIC codes for NOIS and Nord Pool Spot market area

It was discussed if we need EIC codes for NOIS (X code) and a code for the Nord Pool Spot market area (Y code):
- Jari was questioning if it is allowed having an EIC code for NOIS, ref the EIC manual:

A party is allowed to have only one EIC code for a given organisation that has a legal standing within the Energy Internal European Market (IEM).

- A proposal was using the EIC code of Energinet.dk or using a GS1 GLN ID.
- It was agreed that we should try getting an EIC code for the Nord Pool Spot market area and that a GS1 code is made for NOIS. Energinet.dk volunteered to crate the code, since they are running the NOIS system today.

3.3   Spot market process from ENTSO-E:

At the latest ENTSO-E meeting Jon-Egil presented the NEMM presentation of the Nordic Spot Market process:
- From the ENTSO-E minutes:
  - JN made a presentation on the requirements for the Nordic Spot market (see presentation for details).
  - JB asked if this concerned the implicit auction. JN agreed but he felt that there was some missing information. JB consequently felt that the ECAN information should be reviewed before deciding to develop a specific document.
  - DM wanted to clarify what exactly was being requested.
  - JN clarified by indicating that it concerned the markets that were not under TSO responsibility (Elspot and Elbas). He provided more information on the market breakdown.
  - JB clarified by indicating that it was merely a bid on a power exchange. JW indicated that these were generally handled by web interfaces or specific power exchange documents.
  - JN went on to present the requirements (see presentation for details).
  - JW felt that the document needed to be harmonised in order to ensure consistent use.
  - JB felt that this was a question that was being addressed by the power exchanges. Consequently it should be a question to be asked to the Market Committee.
  - MXM suggested that everyone should ask the question to their Market Integration WG members in order to have an opinion from this group. He proposed that the presentation be given to the Market Integration members.
  - JN saw no issue providing the presentation to the group.
  - **ACTION 13-14:** Everyone to provide the Nordic spot presentation to their Market Integration WG members and ask for an opinion on whether or not WG-EDI should develop an electronic document
- Maurizio Monti had sent the following mail to ENTSO-E participants.

  Dear All,

  As concerns the **ACTION 13-14: "**Everyone to provide the Nordic spot presentation to their Market Integration WG members and ask for an opinion on whether or not WG-EDI should develop an electronic document.**", I met this morning the Convener of WG MI – **he suggested that a person from Nordic countries introduces the request at the next WG MI meeting scheduled in Stockholm mid June.**

  For all the members, please inform your WG MI member on this action.

  Best regards
  Maurizio

- Christian mentioned that the Swedish member thinks that this shouldn't be an item for MI.

- What will happen if MI says yes? It might result in a larger project involving also other European power exchanges. Another result might be moving the project to EFET or another organisation.
- The discussion resulted in a decision that we don't do anything more on short term. The risk is that the project grows to be too big for what we want for the time being.
- On short time we continue specifying the NPS processes (BRS for the Nordic Trading System) and eventually create Nordic XML schemas when needed.

3.4   Price types (From the ENTSO-E minutes):
- JN asked also if there could be a structure which provided a price breakdown (price type, price).
- MXM indicated that such a structure already existed concerning the different tariff types in the settlement process of RGCE.

> RGCE = Regional Group Central Europe (?). There is no mentioning of tariff types or several prices in the ESP IG.

- Jon-Egil will ask Mike for the RGCE IG referenced.
- We interpret this as a possible positive answer, i.e. that adding a Price Type be possible. We will send a MR for addition of a price type class when needed.

Review of MR NEMM/2011-92
The MR concerns addition of a *Curve Type Element* to the *Planned Resource Time Series class* was reviewed and agreed. Fedder will be asked to send it to ENTSO-E together with the next block of MRs (in the autumn?).

Action:
- Fedder is asked to get a status for NEMM2010/35 and NEMM2010/67
- DK will go through and find a better justification for NEMM2010/48-51 and NEMM2011/86
- Hanna will submit a request for EIC code for the Nord Pool spot market area
- Denmark (Christian) will find a GS1 code for NOIS.
- Jon-Egil will ask Mike for the IG for the settlement process of RGCE, where different tariff types are used.

4   BRS for Determine transfer capacity
The update of the BRS for Determine transfer capacity was reviewed:
- Jan had found some missing updates and writing errors that were corrected.
- The code A81 was assigned to *Total Transfer Capacity (TTC)*
- The class diagrams where compared to the new ECAN 5.0 IG:
    o *Curve Type* and *Classification category* was added.
    o An association between the *Interval class* and the *Reason class* was added.
- The Corridor element is in the NEMM BRS and NOIS, but not in the ENTSO-E ECAN IG.

The updated BRS will be published at www.ediel.org.

Homework:
- Ove will make a MR for addition of corridor in the ECAN Capacity document.
- Ove will publish the BRS for Determine transfer capacity

5 BRS for Schedules

Ove had as Homework from previous meeting updated the BRS. The BRS was reviewed with the following comments and actions:

- The BRS was updated with the results after the May ENTSO-E meeting.
- A reference to the relevant ENTSO-E IG was added to all described documents.
- Ove will as homework add NOIS rules in an appendix, similar to what is done in the BRS for Determine transfer capacity.

A discussion related to arrow 6 in the sequence diagram for market schedules was started. I.e. addition of the exchange of Market schedules between TSOs and NOIS. It was however uncertain if this already was modelled in the BRS for the Nordic trading system. The discussion will be continued at the next meeting.

Homework:
- Ove will add NOIS rules in an appendix, similar to what is done in the BRS for Determine transfer capacity.

6 BRS for Nordic trading system

Ove mentioned that TenneT will receive ECAN Rights document from Elbas, instead of ERRP Reserve Allocation Result document as specified in the Nordic Trading System BRS. This caused a longer discussion whether to use ECAN, ERRP or ESS documents for the reports from Elspot and Elbas.

It was noted that the processes within the Nordic trading system are mixing documents from different ENTSO-E processes (IGs), e.g. in the Reserves option market the Area specification is a NEMM document (not defined by ENTSO-E), the Auction specification document is based on ECAN, while the Reserve option bid document is based on ERRP.

Homework:
- Hanna will verify if we shall continue with the ERRP Allocation Result Document or change to ECAN (e.g. Allocation result) or make our own.
- All will verify the use of ECAN and/or ERRP, including if we should propose an ERRP Auction specification document?
- Hanna will contact Jon-Egil before next meeting and discuss unsolved questions and make a proposal for what to do to finalise the Area specification document.

7 Review of draft BRS for Nordic settlement system (if a report from NBS is available)

A report, *Nordic Balance Settlement (NBS), Common Balance & Reconciliation Settlement, Design*, is available.

Homework:
- Everybody verifies within own company how to proceed with the Settlement system.

8 Implementation verification

No tasks suitable for Implementation verification were found. However SvK data exchange with PSE-Operator (PL), see item 15.1 under AOB, may be a candidate.

9 Information to "entsoe.net"

From Jan: *As a TSO within ENTSO-E we are expected to send information about load and generation to "entsoe.net" next year. Such information is sent today to Nord Pool Spot.*

- Do we need more EIC codes than we are having to day?
- In which format are we expected to send the information?
- Will it be through the Energy Communication Platform (ECP)?
- Does anyone know more about this?

Jari reported that today Nord Pool Spot is sending the Finnish reports on behalf of Fingrid. It is assumed that the same apply for Energinet.dk, Statnett and Svenska Kraftnät. It is however uncertain how the exchanges will be done to the new system.

If NEMM should do anything will be decided on a later meeting.

10 CIM XML

Jari reported from the CIM User group meeting in week 19:

- The CIM work is organised with several under groups that seems pretty complicated.
- Jari showed two presentations related to CIM weather data. Jari has subscribed to information from the project and will keep NEMM informed about the progress of the project.
- Also Maurizio Monti held a presentation related to ENTSO-E and the CIM market extension.
- The presentations can be found at:
  http://cimug.ucaiug.org/Meetings/Prague2011/Shared%20Documents/Forms/AllItems.aspx

Christian reported that Energinet.dk will start sending CIM XML to RWE related to Grid Master Data from next year.

NEMM will follow up the CIM progress in future meetings.

11 Meteorological information (if new information available)

See information from CIM User Group above.

12 Review of project plan

Due to lack of time the item was postponed.

13 Information (if any)

ebIX®, EFET and ENTSO-E Harmonisation group meetings

Christian mentioned that members for the new ERRP group should be found before next ENTSO-E meeting and that it is important with a Nordic participation:

- Denmark plans to participate, but have problems finding someone with time to do it.
- Jan promised to ask within SvK.
- Jon-Egil promised to verify if he can participate.

Homework:

- All are asked to find Nordic members for the new ENTSO-E ERRP WG.

14 Next meeting
- Tuesday June 14th and Wednesday June 15th, Helsinki
- To be agreed, place Copenhagen:
  - Wednesday August 31st and Thursday September 1st or
  - Sometime in week 37 (September 12th – 16th)

15 AOB

15.1 SvK data exchange with PSE-Operator (PL)
SvK are today sending/receiving Excel-sheets or "telefaxes" (mailed faxes) to/from the Polish TSO.

A time ago Jan received some examples of XML files, based on ENTSO-E-documents from Hubert Redkowiak (at Polskie Sieci Elektroenergetyczne Operator S.A.). Two examples are attached:
- In the first example there are two Excel files with the present exchange, one XML-file with the suggested exchange, and the corresponding Schema-file.
- In the second example there is one Excel file with the present exchange, one XML file and the corresponding Schema. Cfr comment number 2 in the **Error! Reference source not found.** (mail to Hubert).

The examples were gone through and resulted in discussions related to updates of the BRSs for *Determine transfer capacity*, *Schedules* and *Nordic trading system*, see these items above.

Appendix A UNSOLVED ENTSO-E MR

NEMM 2010/35
 	
Fedder is asked to get a status
	Code list
	
	Related to ERRP IG
		Add the following codes to the *Business Type code list*:
		    Z09, Spinning reserve,
		        The spinning reserve is extra generating capacity that is available by increasing the production of generators that are already connected to the power system.
		    Z10, Fast reserve,
		        The fast reserve is capable of being regulated within 15 minutes and is intended to re-establish Frequency ~~controlled~~ *activated* Disturbance Reserves (FDR).
		
		Note: We are asking for spinning reserves independent of the market (primary, secondary or tertiary).
		
		Comments:
		  • Used in Denmark, Norway and Sweden
		  • Alternatively use Business type = *A10 Tertiary control* and a *Business Type characteristics code*
			Postponed
			
			Awaiting decision in ENTSO-E
				ENTSO-E 20101001:
				WG-EDI homework:
				    Verify if Z09 and Z10 may be used by other countries. If not this should probably be a Nordic code.
				
				Tor/Ove homework:
				    Check with *Ad-hoc team Operational reserve* within *SOC (System operator Committee)*, related to the *European Operational Standard* if the definitions is correct. The Norwegian participant is David Whitley
				
				Checked OK!

NEMM 2011/67
 	
In progress
 	
Fedder is asked to get a status
	Related to ERRP IG
	
	Fedder is asked to get a status
		Change the cardinality of the following elements in the Reserve bid document to [0..1]:
		  • Subject party
		  • Subject role
			In progress within ENTSO-E (?)	**ENTSO-E 20110519:**
				Concerns SO to SO model and this model needed more careful detail.
				
				NEMM 20110224:
				To be sent to ENTSO-E spring 2011

NEMM 2010/48
 	
Home-
	Code list
	
	Error! Reference
		Add the following code to the *Business Type code list*:
		    Z08, Trade, unconfirmed,
		        Actors trade plan
			Postponed	**NEMM 20110405:**
				Awaiting justification from Denmark
				
				NEMM 20110224:

work for DK	*source not found.* Related to ERRP IG	when not matched against counterpart, used during matching procedure. Comment: • Used in DK		Mikael will verify if the code is needed within beginning of March. **ENTSO-E 20101001**: See NEMM 2010/47 above

NEMM 2010/49
 	
Home-work for DK
	Code list
	
	Error! Reference source not found.
	
	Related to ERRP IG
		Add the following code to the *Business Type code list*:
		    Z14, System operator adjustment,
		        Proposed adjustment by the *System operator*, used during matching procedure.
		
		Comment:
		• Used in DK
			Rejected	**NEMM 20110405:**
				Awaiting justification from Denmark
				
				NEMM 20110224:
				Mikael will verify if the code is needed within beginning of March.
				
				ENTSO-E 20101001:
				See NEMM 2010/47 above

NEMM 2010/50
 	
Home-work for DK
	Code list
	
	Error! Reference source not found.
	
	Related to ERRP IG
		Add the following code to the *Business Type code list*:
		    Z15, Result of an automatic System operator adjustment,
		        Forced adjustment by the *System operator*, used during matching procedure.
		
		Comment:
		• Used in DK
			Postponed	**NEMM 20110405:**
				Awaiting justification from Denmark
				
				NEMM 20110224:
				Mikael will verify if the code is needed within beginning of March.
				
				ENTSO-E 20101001:
				WG-EDI:
				• Use Imposed time series or reduce the quantity.

NEMM 2010/51
 	
Home-work for DK
	Code list
	
	Error! Reference source not found.
	
	Related to ERRP IG
		Add the following code to the *Business Type code list*:
		    Z16, Market schedules difference,
		        Difference between own and counterparty market schedules, used during matching procedure.
		
		Comment:
		• Used in DK
			Postponed	**NEMM 20110405:**
				Awaiting justification from Denmark
				
				NEMM 20110224:
				Mikael will verify if the code is needed within beginning of March.
				
				ENTSO-E 20101001:
				WG-EDI:
				• Use Imposed time series or reduce the quantity.

NEMM 2011/86	Code list **Error!**	Add the code **Z17**-**Z18** to the *Business Type code list* **Z17**, Technical minimum		**NEMM 20110405:** postponed, awaiting better justification from Denmark

	Referenc e source not found.	production **Z18**, Technical maximum production		

Appendix B **TRADE IN SWEDISH PRIMARY REGULATION FROM APRIL 2011**
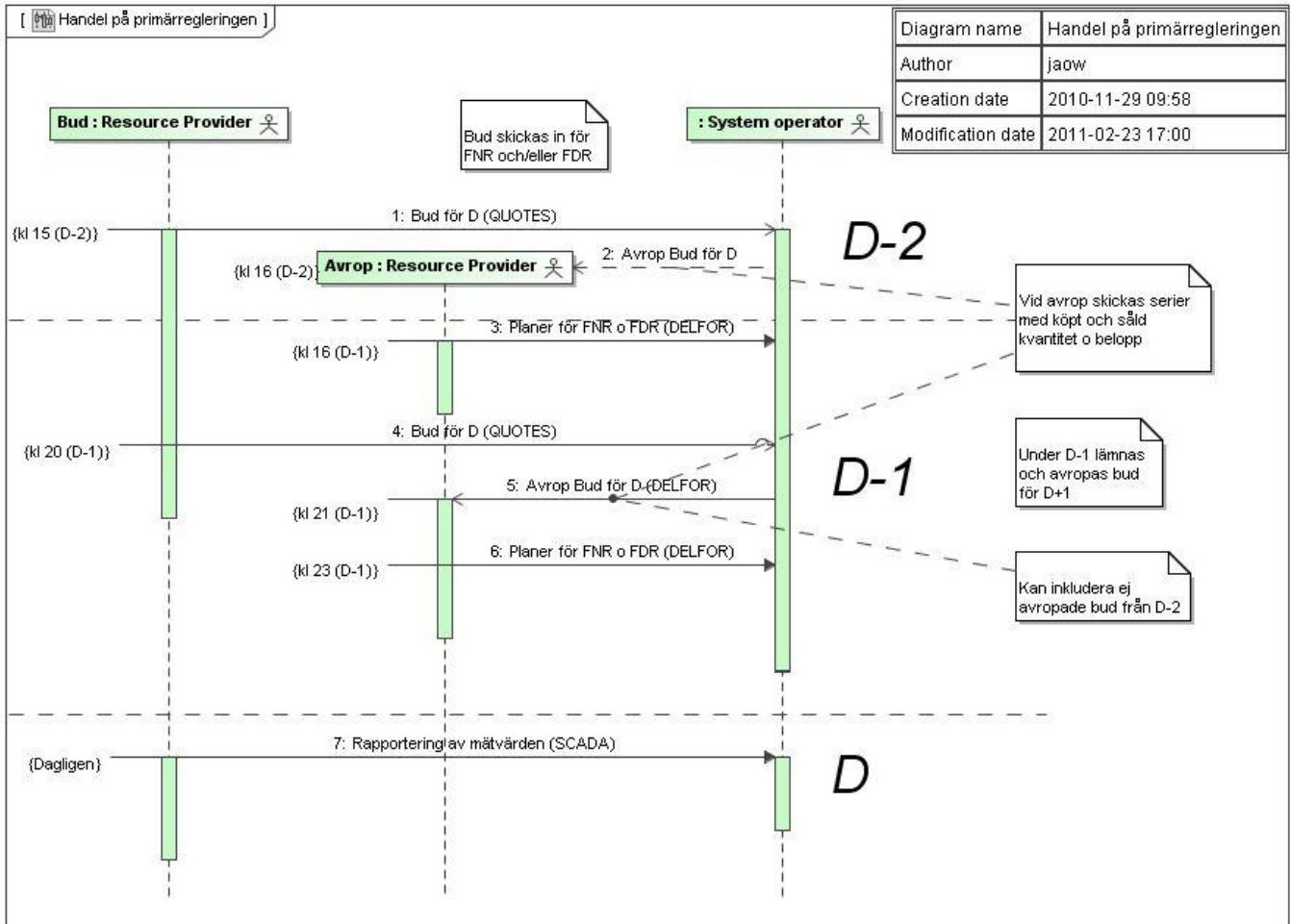
Appendix C   TO BE DISCUSSED AND AGREED

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 "*nill*".

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 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 docu*ment 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
Phase 1, Determine transport capacity	▨	▨	▨	▨	▨	▨
BRS	▬					
Change request to ENTSO-E			▬	▬	▬	
Phase 2, Scheduling process	▨	▨	▨	▨		
BRS	▬	▬	▬			
Change request to ENTSO-E			▬	▬	▬	
Phase 3, Nordic Trading System			▨	▨	▨	
BRS			▬	▬	▬	
Change request to ENTSO-E				▬	▬	▬
Phase 4, Settlement process	Avaiting NBS (Nordic Balancing System)					
BRS						
Change request to ENTSO-E						
Phase 5, implementation verification						▨