Minutes: NMEG meeting **Date:** Wednesday March 7th, 2018 **Time:** 10:00 –16:00 **Place:** Arlanda March 22nd, 2018 – Version 2	**NMEG** Nordic Market Expert Group

Present: Christian Odgaard, Energinet
　　　　　　　Fedder Skovgaard, Energinet
　　　　　　　Hans Erik Budde, Elhub
　　　　　　　Jan Owe, Svenska kraftnät
　　　　　　　Jon-Egil Nordvik, Statnett (Convenor)
　　　　　　　Minna Arffman, Fingrid
　　　　　　　Ove Nesvik, Edisys (Secretary)
To (NMEG):   Anne Stine Hop, Statnett
　　　　　　　Christian Odgaard, Energinet
　　　　　　　Fedder Skovgaard, Energinet
　　　　　　　Hans Erik Budde, Elhub
　　　　　　　Jan Owe, Svenska kraftnät
　　　　　　　Jari Hirvonen, Fingrid
　　　　　　　Jon-Egil Nordvik, Statnett (Convenor)
　　　　　　　Minna Arffman, Fingrid
　　　　　　　Ove Nesvik, Edisys (Secretary)
Appendix A: "To remember list"
Appendix B: Letter from eSett
Appendix C: Overview of the usage of xml-schemas in the Nordic countries
Attachment: None

1　Approval of agenda

The agenda was approved with the following additions:
- Requirements for changes in Capacity_MarketDocument due to multi-NEMO arrangement in the Nordic area, see item 8.3
- Should we rename NME, see item 20.1 under AOB

Hans Erik proposed to add the following introduction to each item on the agenda, which was agreed by the group:

1. Name of agenda item
2. Background
3. What to be decided, discussed or informed
4. Reference (link) to related documents/information

2　Approval of previous meeting minutes

The minutes from previous meeting were approved.

3　Discussion: How to make a "Nordic CIM model" when the "NMEG Harmonised data hub pilot project" is closed?

From discussion:

- Hans Erik asked for a broader discussion, i.e. related to the fact that all Nordic countries have or will have hubs, and which TSO organisation NMEG will belong.
- Fedder suggested to ask CENELEC to make a document "How to make CIM profiles for the European downstream market?". The Nordic TSOs needs to be represented in this work.
- Currently the My Energy Data project is ongoing within IEC WG16. From the Nordic countries, Jan, André Bryde Alnor (Energinet) and partly Ove are participating. NMEG should be involved in this work.
- It is important to notice that this work (making a "Nordic CIM model") is a preparation for the future and will not influence the current hub implementations.
- Hans Erik informed that Elhub would like to see NMEG in the "market area" (MSG), which was agreed by the rest of the group. NMEG is a technical group, but facilitating and proposing solutions on market issues. This is similar to WG-EDI that is placed under the ENTSO-E Market Committee. NIT should be an important stakeholder in the NMEG work and deliverables.
- Energinet plan to implement a new version of documents, based on the current ebIX® documents in 2019. Further, Energinet hope to implement IEC based documents in three years' time.
- We will start making a high-level road map for how to proceed:
  - One-page document with clear market focus;
  - Point out that NMEG is working for the market, even if CIM is a technical topic;
  - NMEG is building and enabling technical documents, based on input from the business experts (market experts);
  - NMEG will have close cooperation with NEAT (Nordic Enterprise Architect Team).
- In addition, NMEG will start making examples of how to make CIM based document for the Nordic downstream market, i.e. as a Nordic downstream market BRS. The latter to be used by future implementation projects in the Nordic countries and as input to European and international standardisation work.

Action:
- Ove will make a proposal for a high-level road map and send it on circulation for comments to NMEG within a few weeks. Finalisation will be put on the next meeting agenda.

4   Status and update of Nordic BRSs and other documents if needed

There are no known issues with the BRSs or other documents.

5   Status: AD 28 - Strategy for CGMES transition

CGMES (Common Grid Model Exchange Specification) has decided to go for the proprietary CGMS 2.4 with some Nordic extensions, hence the item is closed from NMEG point of view.

6   Usage of UUID and mRID in 62325-451-n

The basic problem is that the mRID element in CIM is restricted to 35 positions in some of the mRID elements, while a UUID (Universally Unique IDentifier) is 36 positions (including hyphens to show the different parts of the UUID).

Conclusion:

- NMEG will support a future change in those CIM elements that are restricted to 35 positions, i.e. to extend the mRID element in these CIM elements to at least 36 positions (e.g.60 positions).

7   BRS for Nordic Operational System – if any issues

The Activation Document will be implemented in Norway and Sweden, first in Sweden (within this year), hence there is a need to update the "Operate BRS" with a CIM based Activation Document.

Action:
- Ove will add a CIM based Activation Document description to the Operate BRS.

Continued action (in progress):
- Fedder and Jon-Egil will ask WG-EDI for the status in the ERRP project

8   XML schemas

8.1   NMEG set of schemas

Ove had as action from previous meeting extended the table to include the different TSO's and rename the "TSO" column to "Available in …" (however this column was a misunderstanding, hence removed during the meeting). The NMEG set of schemas, including extended table with TSO columns, are shown in Appendix C.

Continued action:
- Everyone are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be published at www.ediel.org (continued).

8.2   CIM based NMEG xml-schemas

The first draft of NMEG Currency Exchange Rate Document from Ove was reviewed. The xml schemas and related documentation can be found at NMEG working documents.

Action:
- Ove will clean up the "ENTSO-E documentation", send the document to NMEG on circulation for comments for 14 days, before publishing the documents.

8.3   Requirements for changes in Capacity_MarketDocument due to multi-NEMO arrangement in the Nordic area

The Requirements for changes in the Capacity_MarketDocument, due to multi-NEMO arrangement in the Nordic area, will be handled in a NMEG "mini-project". Fedder, Jan, Jari, Jon-Egil and Ove will have two GoToMeeting telcos March 19th, one in the morning and one in the afternoon, to make a proposal for a schema to be used for the "multiple NEMOs project".

9   Discussion: Addition of Metered Data Administrator (MDA) to the Harmonised Role Model

Since RMG is put on "low gear", we will make a small memo arguing for the addition of the MDA and send it to the Nordic hubs, asking for their position.

Action:

- Ove will make a memo, arguing for the addition of the MDA to the HRM and send it to NMEG for comments for 14 days.
- Thereafter Jon-Egil will send the memo to the Nordic hubs.

10   Review of ebIX® Business Reason Codes used in the Nordic countries

ebIX® has a concept where the elements Document Name Code (Document Type) and Business Reason Code are combined to identify the nature of a document. Below is shown some combinations of Document Name Code and Business Reason Code to explain the concept:

Document Name Code	Business Reason Code
392 Request regarding change of role MP	**E03** Change of balance supplier
414 Response regarding change of role MP	**E03** Change of balance supplier
392 Request regarding change of role MP	**E56** Change of Balance Responsible Party
414 Response regarding change of role MP	**E56** Change of Balance Responsible Party

Everybody had as action from previous meeting to come up with the list of codes used today and codes planned to be used in the not so far future, and send it to Ove before the next meeting. Ove had received code lists from Denmark, Finland and Norway and looked up the Swedish usage at www.ediel.se. The response shows that only Denmark and Sweden uses the ebIX® Business Reason Codes.

In Norway a similar concept is used by combining the Document Name Code (Document Type) with the Elhub BRS identifications.

In Finland the document is identified only by the name of the xml schema used. There are no Document Name Code or Business Reason Code, or other codes identifying the nature of the document.

A table showing the Business Reason Codes used in Denmark and Sweden, and the available codes from ebIX® (Ove's homework) can be found at NMEG working documents.

The document was reviewed and a few spelling errors were corrected. The document will be kept as input to a later Nordic CIM harmonisation.

For next meeting we will add error codes used in Denmark, Finland and Norway (too early for the Swedish hub) to the document.

Action:

- Ove will update the memo with error codes used in Denmark, Finland and Norway (too early for the Swedish hub).

11   Reactive energy (from Sweden)

The item originates from Sweden and concerns how to identify the four time series:

1) Active in (i.e. production)
2) Active out (i.e. consumption)
3) Reactive capacitive
4) Reactive inductive

In Denmark, Finland and Norway active/reactive (capacitive/inductive) is given as a Product, while the Metering Point Type shows if it is production or consumption.

In Norway the active/reactive (capacitive/inductive) can be sent in the following documents:

Document: **NotifyStartOfSupply, NotifyMeteringPointCharacteristics, RequestUpdateMasterDataMeteringPoint**: *Measurement Definition* (Specification of the characteristics of the metering taking place on the metering point) [1..9], with a *Product* (Identification of an energy product such as power, energy, reactive power, transport capacity, etc.).

Document: **CollectedData**, **NotifyValidatedDataForBillingEnergy**, **PriceVolumeCombinationForReconciliation**: *Product Included Product Characteristics* (Product Included Product Characteristics Complex Type) [0..1], with a *Product* (Identification of an energy product such as power, energy, reactive power, transport capacity, etc.).

The item is closed.

12   Further developments for eSett

Minna/Jari had as action from previous meeting asked Minnakaisa (eSett) to contact NMEG to ask them to start working on further developments for NBS. Hence, NMEG had received a letter with questions to NMEG, see Appendix B.

eSett ask for NMEG advice on three areas, which were discussed:

- File compression of larger market messages:
  - May be handled by ECP/Mades.
  - Alternatively, zip may be used, but this imply changes to the applications on both ends.
  - The topic has earlier been discussed at the NTC/NBS meetings May 23rd, 2014 and September 16th, 2014, both times with the following conclusion; "If anyone want encryption, compression etc. ECP/MADES should be used".

    NMEG proposal: The preferred solution is to use ECP/Mades for compressed documents.

- Harmonization of the communication protocols:
  - Could be handled by ECP/Mades.
  - NEMM/NBS advised for a few years ago eSett to use ECP/Mades. However, the eSett decision was use the national protocol instead (WS, SFTP, SMTP).
  - Since then, ECP/Mades has developed and is currently handling large volumes of documents and compression of large documents.
  - ECP/Mades is currently being implemented in the Norwegian Balance Regulation Market and must be used by all actors within 2019.
  - ECP/Mades is used by all Nordic TSOs for the transparency platform and by (and between) Energinet and Statnett for XBID.
  - Also, the Swedish Balance Regulation market plan to use ECP/Mades in the near future.
  - ECP/Mades uses a WS interface.
  - The Danish and Norwegian hubs are using WS, however not the same WS.
  - NMEG expect the hubs to communicate with eSett via ECP/Mades in the future, but not that the actors will communicate with the hubs via ECP/Mades.

> ***NMEG proposal:*** The preferred solution is to use ECP/Mades, however this must be aligned with the ongoing hub projects. eSett is advised to make a plan for introducing ECP/Mades and get it anchored in the market.

- XML messages:
  - o There is a decision within the TSOs to migrate to CIM based messages for all new exchanges that are implemented. NMEG advice eSett to do the same, i.e. migrate to CIM based documents when making changes to documents for other reasons. Alternatively offer older documents and CIM based documents in parallel for a period of time.

> ***NMEG proposal:*** NMEG propose to migrate to CIM based documents when updating documents for other reasons. If only some documents are updated, an alternatively is to offer older documents and CIM based documents in parallel for a period of time.

Action:
- Ove will make a draft letter and send it to NMEG for comments for 14 days.
- Thereafter Jon-Egil will send the letter to eSett.

12.1 *Need for development on downstream documents/processes*

There are no known issues/needs for development on downstream documents/processes that should be handled by NMEG, except for the need of a Nordic downstream CIM based BRS (see item 3 above). The item Is closed.

13   Common file sharing area for NMEG

Continued action:
- Jon-Egil will contact Nina Kujala at Fingrid.

14   BRS for schedules

Due to lack of time the item was postponed.

15   Status for MRs to ENTSO-E

Ove had as action from previous meeting updated the MR status table and made two new MRs for WG-EDI. The relevant MRs (both older but still active and the two new, and the updated MR overview can be found at [NTC working documents](#).

The two new MRs was corrected (spelling errors from Jan).

Action:
- Jon-Egil will submit the two MRs (NMEG/2018/135 and NMEG/2018/136) to ENTSO-E/WG-EDI.

16   Status [www.ediel.org](#)

Ove had as action from an earlier meeting made a proposal for how to deal with "NEG" at [www.ediel.org](#), i.e. change to Ediel or NMEG, dependent on the context.

Further, Ove had as action to remove Tor Åge from the NMEG (NEG) member list and NPS from the agenda. However, Ove couldn't find any occurrences of "Tor Åge" nor "NPS" at the Ediel web site.

Conclusion:
- We will not show email address of the NMEG participants.
- Ove will update the Ediel web site according to the proposal.

The item is closed.

17   Review of Appendix A, "To remember list"

Due to lack of time the item was postponed.

18   Information (if any)

No additional information given.

19   Next meeting

Monday April 23rd, 09:00 – 11:00, GoToMeeting
Thursday May 31st, 09:00 – 15:30, Gardermoen (Oslo)
Thursday August 30th, 09:00 – 16:00, Helsinki

20   AOB

20.1   Should we rename NME

Fedder informed that it is popular to pronounce "NME" as "enemy", hence it was agreed to rename NME to NMEG (Nordic Market Expert Group).

Conclusion:
- NME will be renamed to NMEG (Nordic Market Expert Group).

Appendix A "To remember list"

Item #	Item	Description	Status
1.	EMFIP Configuration Market Document	Within EMFIP there is a document called Configuration Market Document. NTC don't think that the document can be used for any master data, outside of the transparency platform, in the foreseeable future. However, the topic should be kept in mind and we might get questions why we didn't use it. At a later stage, NEG might do some work to influence the European standards.	TBD
2.	Balancing Publication Implementation Guide	To be considered	TBD
3.	BRS for Operate	• Add "Reporting" as UseCase • Add code for Metered frequency (Z69?) and Hz	TBD

Appendix B   Letter from eSett

Dear NME representatives,

After the Nordic imbalance settlement model was effectuated from 1.5.2017, eSett has identified the need to continue the development of market communication. eSett has identified areas which needs to be further developed. The development areas are listed below:

- File compression of larger market messages
- Harmonization of the communication protocols
- XML messages

eSett sees the file compression as the most important development area from the ones mentioned above. Currently some XML messages are large and compressing might bring some efficiency. Today BRS does not include file compression. eSett would like to know if NME group has a recommendation on possible file compression approach.

eSett would also like to harmonize the communication between the market parties in the Nordic countries by allowing only one communication protocol to be used in market communication. Currently, there are three different communication protocols (WS, SFTP, SMTP) used and supported. To increase data security and efficiency, eSett would like that all market participants who send data to eSett, would move to use only one communication protocol. eSett would like to move to support either Web Service(WS) or a different communication protocol (e.g. ECP/Mades) which will be used by the market in the future. The communication protocol should be used by Datahubs and other market participants. eSett would therefore like to hear NME's opinion about which communication protocol could be used in the future in similar kind of market operations. Are there any plans to harmonize the communication protocols in the Nordics?

Finally, eSett would like to hear NME group's opinion about the current XML messages and if there is pressure from the market to develop current message format. We have understood that in some other market operations the market has starting to use newer versions of ebix and ENTSO-E based messages or new data models such as CIM based messages. eSett would like to hear NME group's opinion about how long can the current XML messages be used and what would be the message format in the future,

eSett would like to raise the above-mentioned areas to the NME group for further discussion and evaluation as the TSO's are owners of the BRS document. eSett would like that the development of file compression begins in the near future while the other two areas are longer-term goals. TSO's have requested eSett to be prepared for the high time resolution settlement, and therefore it is important for eSett to understand possible changes in messaging already now.

Yours sincerely,

Minnakaisa Ahonen, CEO

Appendix C   Overview of the usage of xml-schemas in the Nordic countries

#	XML schema	BRS	Version used by NBS	Version used by TSOs			
				Energinet	Fingrid	Statnett	Svk
1.	NEG ECAN publication document	NBS BRS for TSO/MO	1.0				
2.	NEG ERRP Reserve Allocation Result Document	a) NBS BRS for TSO/MO b) BRS for Trade	1.0				
3.	NEG Area Specification Document	a) NBS BRS for Master Data b) BRS for Trade	1.0[1]				
4.	NEG Bilateral Trade Structure Document	NBS BRS for Master Data	1.0				
5.	NEG Party Master Data Document	NBS BRS for Master Data	1.0				
6.	NEG Resource Object Master Data Document	NBS BRS for Master Data	1.1				
7.	ENTSO-E Acknowledgement Document	NEG Common XML rules and …	6.0				
8.	ENTSO-E ERRP Planned Resource Schedule Document	NBS BRS for TSO/MO	5.0				
9.	NEG ERRP Planned Resource Schedule Document	BRS for Schedules					
10.	ENTSO-E ERRP Resource Schedule Confirmation Report	BRS for Schedules	No NEG version				
11.	ENTSO-E ESS Anomaly Report	BRS for Schedules	No NEG version				
12.	ENTSO-E Outage document	BRS for Schedules	No NEG version				
13.	NEG ESP Energy Account Report Document	NBS BRS	1.0				
14.	ENTSO-E ESS Confirmation Report	NBS BRS	4.1				
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1				
16.	ebIX® Aggregated Data per MGA for Settlement for Settlement Responsible	NBS BRS	2013pA				
17.	ebIX® Aggregated Data per Neighbouring Grid for Settlement for Settlement Responsible	NBS BRS	2013pA				
18.	ebIX® NEG Confirmation of Aggregated Data per Neighbouring Grid for ISR	NBS BRS	2013pA				
19.	ebIX® Validated Data for Settlement for Aggregator	NBS BRS	2013pA				
20.	NEG ECAN Allocation Result Document	BRS for Trade					
21.	NEG Currency Exchange Rate Document	BRS for Trade					
22.	NEG Auction Specification	BRS for Trade					
23.	NEG Spot Market Bid Document	BRS for Trade					
24.	ENTSO-E ERRP Reserve Bid Document	BRS for Trade					

[1] The NBS version 1.0 is using dateTimeType for Validity Start/End (error correction), while the MO version 1.0 is using dateType. dateTimeType will be used from version 2.0.

| 25. | ENTSO-E ERRP Activation Document | BRS for Operate | | | | | |