		NMEG
Minutes:	NMEG meeting	
Date:	Tuesday August 23rd and Wednesday August 24th, 2022	
Time:	09:00 – 16:00 both days	Nordic Market Expert Group
Place:	Denmark (Copenhagen)	
September 14th, 2022		

Present:	Christian, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Ove, Edisys (Secretary)
	Søren, Nordic RCC
	Tage, Energinet (first day)
	Teemu, Fingrid
To (NMEG):	Anne Stine, Elhub
	Christian, Energinet
	Jan (DK), Energinet
	Jan (SE), Svenska kraftnät
	Jon-Egil, Statnett (Convenor)
	Miika, Fingrid
	Ove, Edisys (Secretary)
	Tage, Energinet
	Teemu, Fingrid
CC:	Audun, Elhub
	Bent Atle, Statnett (NBM)
	Fedder, Energinet
	Fredrik, Fingrid
	Hans Erik, Elhub
To (Invited guests):	Antti, eSett, FI
	Søren, Nordic RCC
	Tommy, eSett, FI
	Tuomas L, eSett, FI
	Tuomas P, eSett, FI

Appendix A:	MR NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms
Appendix B:	Possible new Asset Types used in Denmark
Appendix C:	Overview of Nordic memberships in international standardisation bodies
Appendix D:	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:

- Ediel Common XML rules and recommendations, se item 10.10.
- Ediel currency exchange rate market document, see item 10.11.
- New process type code for intraday and schedule/flow, see item 10.12.
- Review of update of Nordic Energy Market Domain Model 1r2A, see item 10.13.
- Review of update of NBS BRS for Master Data, see item 10.14.
- Document for Nordic RCC LTFBA project, see item 10.15.

2   Approval of previous meeting minutes

The Minutes were approved after having removed the surname of Fredrik (FI).

3   Status from NEX (Nordic ECP/EDX Group)

Background: NIT has taken over the responsibility for NEX (Nordic ECP/EDX Group), former "ECP/EDX Centre of Excellence". However, the group is still below NMEG in the "formal hierarchy". NMEG will be kept informed of progress in the group.

References (links):

**What to decide,
discuss or inform:**   Status from NEX.

Noting reported.

4   NMEG-NORCAP Project

Background: NORCAP is a project run by Nordic RCC that needs a set of new CIM based documents, such as the CRAC document and the SIPS document.

References (links):   None.

**What to decide,
discuss or inform:**   Update of the NorCap BRS.

4.1   CNTC IG

Fedder asks if NMEG can and will help the NORCAP project to create an implementation guide for the CNTC (Coordinated Net Transfer Capacity) process, including an information model that is consistent with the ESMP?

Conclusion:

- The NORCAP project is finished, and the item will be removed from the NMEG agenda.

4.2   *Nordic RCC and TSO data exchange regarding Long-term Capacity Calculation process*

At the previous meeting in June 2022, NMEG proposed adding a "category" attribute of type Category_String to TimeSeries. The Category_String has for instance the following codes: "Peak" and "Off peak" which could be used for "Peak scenario" and "Valley scenario" – or we could ask for a new code "Valley".

Ove had as action asked Nordic RCC for their opinion and Jesse replayed the following on August 12th:

> Apologies for a later response. I also see the option 2 as a more future-proof solution going onwards!

> Although, since we had to close the Release 5 design already before the summer period, we decided among the NRCC and TSO integration managers to move onwards with the original consideration of having the peak or valley scenario related data to be highlighted with the Reason -element. This was not seen as the nicest solution but allowed us to continue with the development of the new long-term CCC processes.

Hopefully later after this change to CIM has been approved we can enhance our implementation guides to follow this better approach. Potential first usage could be the M-1 CCC process, in which the peak and valley scenario is also relevant.

Action:

- Ove will make a MR for addition of a Category attribute to TimeSeries in IEC62325 and ESMP and sent to Jon-Egil for submission to the ENTSO-E retail market subgroup and WG16.

5   Status for a common meeting with NEAT

Background: NIT has taking over from MSC as "home" for NMEG and consequently we should have a relation to them (Nordic Enterprise Architecture Team), e.g. find out how we can cooperate.

References (links):   None.

What to decide,
discuss or inform: Status for a common meeting with NEAT.

Nothing new.

6   Support to the NBM project – prioritised item

Background: The NBM-project (Nordic Balancing Model) is going forward and there is a need for a number of new CIM based documents.

References (links):   http://nordicbalancingmodel.net/

What to decide,
discuss or inform: Status for the NBM project and possible task for NMEG.

Pending list (to remember items):
- NBM Measurement Value Market Documents will be added to the Nordic Operate BRS.
- NBM Capacity Market Documents will be added to the BRS for Determine Transfer Capacity.

6.1   Update of NMEG BRSs based on NBM input

Ove had as action cleaned up the BRS for Operate and sent it on circulation for comments to NMEG for one week before publishing it in June 2022.

The updated BRS for Nordic Trading System was reviewed and updated.

It was agreed to start on the update of our BRS Determine Transfer Capacity by adding the following processes and documents from NBM:

- mFRR ATC AOF
- mFRR ATC TSO
- mFRR Remaining ATC AOF

Action:

- Ove will clean up the BRS Nordic Trading System and send to NMEG for one week of commenting before publication.

- Ove will update the BRS Determine Transfer Capacity with:
  a) https://nordic-balancing.pages.fifty.eu/information/TSO-TSO/MessageImplementationGuides/mig/mfrr-atc-aof-capacity_marketdocument.html#_dependency_diagram_for_master_schema_capacity_object_models
  b) https://nordic-balancing.pages.fifty.eu/information/TSO-TSO/MessageImplementationGuides/mig/mfrr-atc-tso-capacity_marketdocument.html#_dependency_diagram_for_master_schema_capacity_object_models
  c) https://nordic-balancing.pages.fifty.eu/information/TSO-TSO/MessageImplementationGuides/mig/mfrr-remaining-atc-aof-capacity_marketdocument.html#_dependency_diagram_for_master_schema_capacity_object_models

6.2 CIM bid submission document for the NBM mFRR Energy Activation Market

Conclusion from previous meeting:

- It was agreed to make a MR for extension of the BidTimeSeries with a MktPSRType class [0..1], see .
- Next CIM EG is September 6th and 7th and the next ESMP subgroup two to three weeks before, hence an MR should be submitted to CIM EG before summer.
- In the meantime (before approved by CIM EG) we will make a Nordic version.

Ove had as action from our meeting in June 2022:

- Made a MR for an extended NBM mFRR Energy Activation Market (ReserveBid_MarketDocument) and sent to Jon-Egil for submission to CIM EG.
- Made a Nordic version of the ReserveBid_MarketDocument (extended with a MktPRSType class) and send it on circulation for comments to NMEG for one week before publishing it.

The item is awaiting the outcome from the CIM-EG meeting in September.

7 Status for MRs to ebIX®

Background: NMEG has sent several Maintenance Requests (MR) to ebIX and some of these have been postponed.

References (links): The MRs can be downloaded from Statnett's eRoom

What to decide, discuss or inform: Status for MR to ETC and if needed making new MRs.

NMEG MR	Request	ebIX® status
NMEG 2020/1 (180)	Request for: 1) "~~Regulation Type~~ Technology type" to identify the origin of the energy (thermal, wind, hydro and consumption) 2) "~~Production Category~~ Resource size", currently called Production Type (normal, minor) 3) Aggregation-criteria for "Type of metered data", currently implemented as ENTSO-E Business	The ebIX® BRS for measure for imbalance settlement is being finalised within ebIX® and NMEG updated the MR at the meeting June 2nd, 2022. **20220602:**

	Types (production, consumption, losses, ….) - Changed to "Business type" and "Business type details" (The request originates from NBS)		Updated based on request from EBG. **20220824:** Action for Jan (SE) and Ove: ask if we can rename "Business Type Detail" to PSRType (Power System resource Type).
NMEG 2020/2	1) Add a "Supply Start Date" to the AP Administrative Characteristics class in Alignment of AP characteristics BRS. 2) Submit a MR to IEC/TC57/WG16 for addition of association from the MktActivityRecord class to the DateAndOrTime class. (The request originates from the Swedish data hub)		Waiting for EBG to review BRS for Alignment of Accounting Point characteristics **20220824:** Withdrawn.
NMEG 2021/3	1) Add a new attribute Reporting Resolution to the AP Administrative characteristics class. 2) Add a new attribute Reporting Interval to the AP Administrative characteristics class. (The request originates from the Swedish data hub)		Waiting for EBG to review BRS for Alignment of Accounting Point characteristics **20220824:** await the result from an ongoing discussion withing WG16.

MR NMEG/2020-02 was discussed at an EBG meeting June 27th. Among others it was questioned if this attribute is AP-, contract- or process- related information. Gerrit is hesitant to add the attribute where suggested, maybe it fits better a contract related information (new BRS?).

Action from EBG meeting 20220627:
- NMEG (Jan and Ove) will try to find a better justification of the proposed addition of a "Supply start date" to the AP Administrative Characteristics class in Alignment of AP characteristics BRS.

The comments to the MRs were reviewed and a set of actions agreed for Jan (SE) and Ove.

Action:
- Jan (SE) and Ove will go back to EBG:
  - Regarding NMEG/2020-01: ask if we can rename "Business Type Detail" to PSRType (Power System resource Type) which may match the term Direction as used in BRS for Imbalance Settlement.
  - Regarding NMEG/2020-02: will be withdraw
  - Regarding NMEG/2020-02: we will await the result from an ongoing discussion within WG16.

8   Status for MRs to ENTSO-E

Background: NMEG has sent several Maintenance Requests (MR) to ENTSO-E during the last years and some of these (about 10 MRs) has been postponed by CIM EG.

References (links):   The MRs can be downloaded from Statnett's eRoom.

**What to decide,
discuss or inform:**   Review and update of statuses in NMEG MR Overview document.

Status:

MR #		Status

NMEG 2022/197	Add new codes:
	Aggregated commercial heat load (A resource using aggregated commercial heat load, including heat pumps in office buildings, for energy).
	Aggregated electric vehicle chargers (A resource using aggregated electric vehicle chargers, commercial and private, for energy).
	Aggregated private heat pumps (A resource using aggregated private heat pumps for energy).
	Reserve power (A resource using reserve power for energy).
	Cogeneration (Combined Heat and Power) (A resource using cogeneration, combined heat and power, for energy).
	Commercial load (industry) (A resource using commercial load (industry), for energy).
		MRs for Asset Types and correction of Weather Process IG – prioritised item and Appendix A, MR NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms.
		
		20220304:
		• Postponed since Jan (SE) was sick.
		
		20220602:
		• See item "10.6, Swedish Asset Type codes for mFRR bids."
		  Action:
		    o Jan (SE) will verify if the MR NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms still is OK.
		• If yes, Jon-Egil will submit the MR to CIM EG.
		
		20220823:
		• Still waiting for an answer from Sweden.

NMEG 2022/199	Add a new element "inclusiveBidsIdentification" to the iec62325-451-7-reservebiddocument_v7_3.xsd	***20220304:*** • Not approved at ENTSO-E ESMP meeting February 25th. • Jon Egil will add the description of how MARI now is using linkedBidsIdentification and involve Alexander Koistinen in that if needed. I.e. why can't linkedBidsIdentification be used? ***20220602:*** • MR updated and will be sent to WG16 ***20220602:*** • To be continued ***20220823:***

MR #		Status
		• Under discussion in WG16 and will be added as an issue in Redmine.
NMEG 2022/200	Rename Asset Type "B45 ~~Thermal f~~ Fuel cell"	*20220321:* • Sent to Jon-Egil for forwarding to CIM EG *20220602:* • To be continued ==*20220823:*== • ==A fuel cell is always thermal, hence rejected.==
NMEG 2022/201	Rename Asset Type **B25** to "**B25** Permanent energy storage"	*20220321:* • Sent to Jon-Egil for forwarding to CIM EG *20220823:* • Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType.
NMEG 2022/202	Add Asset Type "**B??** Temporary energy storage".	*20220321:* • Sent to Jon-Egil for forwarding to CIM EG *20220823:* • Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType
NMEG 2022/203	Rename the title of the Process Type **A58** from "Reserve option market" to "mFRR capacity market"	*20220425:* • Sent to Jon-Egil for submission to CIM EG *20220823:* • To be continued

9 Status for MRs to WG16

Background: NMEG has drafted the first Maintenance Requests (MR) to WG16

References (links): The MR can be downloaded from Statnett's eRoom.

What to decide, discuss or inform: Review and update of statuses in NMEG MR Overview document.

Status:

MR #		Status
NMEG 2022/204	Add a new attribute "inclusiveBidsIdentification" to the BidTimeSeries class.	*20220425:* • Forwarded by Ove to Jan (SE) with a copy to Jon-Egil for submission to WG16. *20220602:* • MR updated with clarifying text and correction of spelling errors. • Jan (SE) will submit it to WG16 *20220823:* • Under discussion in WG16 and will be added as an issue in Redmine.

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

Background: NMEG is responsible for a set of BRSs that are published at www.ediel.org.

References (links):   None.

**What to decide,
discuss or inform:**   Update of BRSs and other documents if needed.

10.1   BRS for Schedules: CIM version of Outage document

Status for a request to the OPC group to agree on how to implement the CIM version of the Outage Document.

Nothing new.

10.2   ENTSO-E: Best practice for version numbering – prioritised item

   a) Status for "ENTSO-E Best practice for version numbering" as reviewed and agreed at NMEG meeting March 12th.
   b) If approved by CIM EG: Review of text for the revisionNumber in the NMEG BRSs, to see if we are in line with the proposed "ENTSO-E Best practice for version numbering".

Jon-Egil hope it will be approved at the next CIM EG meeting in beginning of September.

10.3   Review of comments to BRS for Schedules and discuss if changes are needed related to new flexibility projects – prioritised item

The BRS for Schedules was reviewed and updated based on a set of questions from Ove.

Action:

   * Ove will send the BRS for Schedules on circulation for comments to NMEG for one week before publication at www.ediel.org.

Item closed.

10.4   Exchange of settlement information between the Nordic TSOs – prioritised item

Background: Svenska kraftnät is using an older ebIX® based xml document towards two TSOs and plan using a newer ebIX® and CIM based document towards a third TSO. The codes used for the two older xml exchanges are ebIX® codes, while the third TSO wants to use ENTSO-E codes.

                         An alternative is using the EAR (Energy Account Report) document, which among others is used between Energinet and TenneT and expect it to be used for the Viking-link.

References (links):   None.

**What to decide,
discuss or inform:**   Assuming we (the Nordic countries) will use EAR (in a CIM version) for most of our exchanges of settlement information between the TSOs, can we agree upon some common codes and usages of that message, instead of having bilateral agreements? And since eSett also is using that message (a namespaced version of

the ENTSO-E ESP Energy Account Report version 1.2) it would be relevant to get input from eSett regarding their possible updates and change to CIM.

Bilateral discussions between Denmark and Sweden have just started, perhaps that should be "part of" a more general Nordic discussion, and documentation, of how to exchange settlement information?

At the NMEG meeting in November, it was proposed to add an in_Area and an out_Area to the EAR document. Alternatively it may be an option using the ERRP Allocation Result Document.

See documents from Jan (SE):
- PowerPoint presentation "Settlement information between TSOs.pptx", which was distributed to NMEG February 28th.
- Excel sheet showing settlement related information exchanges with the following columns: "Description", "Per (MP, SO…)", Unit, Parties for Svk exchange" and "Comments Svk", distributed June 2nd.

Action:

- Jan (SE), Jon-Egil, Miika and Tage are asked to fill in the Excel sheet from Jan (SE) with today's exchanges and the content (information) behind it.
- All are asked to send the result to Ove latest by October 3rd, who will merge the results.
- Ove will send a reminder mid-September.

10.5   MRs for Asset Types and correction of Weather Process IG – prioritised item

Continued action:
- Jan (DK) will investigate how **D03**, **D15**, **D17** and **D18** are used and come up with proposals for MRs see Appendix B, Possible new Asset Types used in Denmark.

10.6   Swedish Asset Type codes for mFRR bids

See draft MRs Appendix A, MR NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms.

Jan (SE) had as action verified that the MR is OK after a few updates.

Action:
- Ove will make a MR (NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms) and sent to Jon-Egil for submission to CIM EG.

Item closed.

10.7   Review of NMEG code list

Action:

- Ove will do a brief review of the NMEG code list to see if there are codes that could be deprecated.

10.8   Usage of Reason codes in NBS BRS for TSO-MO– prioritised item

Continued action:
- Antti and Miika will verify if we can add **Z58** (Scheduled activation) and **Z59** (Direct activation) to the NBS BRS for TSO-MO without problems (and publish as NBS BRS for TSO-MO **v2r6A**.

10.9 Rename of Market Balance Area to Bidding Zone or Scheduling Area (to remember item)

Continued action:

- Ove will go through the BRSs and other documents and change Market Balance Area to Bidding Zone or Scheduling Area. If uncertain, Ove will make a note for discussion at a later NMEG meeting. This is not a time critical action.

10.10 Ediel Common XML rules and recommendations

For information: Søren (Nordic RCC) had found a spelling error in chapter "2.6 Usage of Resolution and Position", which has been corrected, i.e. the resolution of "**PT1D**" is changed to "**P1D**". Since this was a clear spelling correction, Ove had published the updated document directly.

 Item closed.

10.11 Ediel currency exchange rate market document

From Tuomas:

eSett has received requests to provide Exchange Rates (that are used in the imbalance settlement) as a data flow to Balance Responsible Parties and Balancing Service Providers. This would include both preliminary exchange rates (for time interval before invoicing) and final exchange rates (for an invoiced week). We are planning to implement the solution and would like to utilize the 'CurrencyExchangeRateDocument (CIM based), which is under the Common Ediel Documents.

After our analysis, I'm requesting for couple of updates into the documentation, so that we could properly utilize it:

- Addition of 'Currency Exchange Rate Document' to either "NBS BRS" or having it separately under Nordic Balance Settlement (NBS).
- Update to allow a message time interval instead of a single date
  - If I have understood correctly, the 'CurrencyExchangeRate_MarketDocument' only allows sending of exchange rate for one day according to the BRS.
    - In the XSD there seems to be an option to use either time interval or date if I read it correctly.
  - eSett has a need for a time interval, such as 7 days which is the time interval for invoiced dates.
- Updates to the attribute usage:
  - sender_MarketParticipant.marketRole.type – '**A05**' - Imbalance Settlement Responsible
  - reciever_MarketParticipant.marketRole.type – '**A46**' - Balancing Service Provider.
- Updates to the XSD (local extension types):
  - LocalRoleType:
    - '**A05**' - Imbalance Settlement Responsible
    - '**A46**' - Balancing Service Provider

With these updates, I believe that eSett could proceed with the exchange rate solution. I hope that you could handle the updates latest in your next NMEG meeting in August.

Response from Ove:

At Ediel.org there is already a version 2-0 of the Ediel currency exchange rate market document:

Ediel Currency Exchange Rate Document	ZIP	v2-0	20191016	DOWNLOAD

If you replace the code list in the Ediel currency exchange rate market document zip-file with the latest code list from ENTSO-E (attached), I believe all your requirements are there already.

The Ediel currency exchange rate market document version 2.0 is documented in the Ediel BRS for Nordic trading system (but missing the Role code for Imbalance Settlement Responsible (A05)):

Business Requirements Specifications (BRS)	Nordic Trading System BRS	PDF	2r0C	20210623	DOWNLOAD

I will note for our next NMEG a discussion if you should use the description in the BRS for Nordic trading system or add a "copy" in the NBS BRS – and addition of the missing code (A05).

Conclusion:

- Imbalance Settlement Responsible (**A05**) was added to the Currency Exchange Rate Market Document to the Trade BRS.

Action:

- Ove will ask Tuomas if this is enough or if we also should add the document to the NBS BRS.

10.12 *New process type code for intraday and schedule/flow*

From Tuomas:

Intraday auctions will be implemented with some schedule, and the common preference is to separate it from Intraday continuous and Day-ahead. This means that a new Process Type needs to be defined for 'ENTSO-E ESS Schedule document, Day-ahead/Intraday trade/flow'.

Currently the NBS BRS for TSO-MO includes following process types for 'ENTSO-E ESS Schedule document, Day-ahead/Intraday trade/flow':

- **A01** Day-ahead
- **A19** Intraday accumulated (i.e. intraday continuous)
- **Z15** External Trade

Could you advice what is the process type that we should use for Intraday auctions to separate it from the existing markets?

Response from Ove:

There are two available ENTSO-E process type codes that concerns intraday and schedule/flow. Please take a look at the following definitions to see if any of these may fit. If not, the alternative would be making a Nordic Znn code for it.

A02	Intra day incremental	The information provided concerns an intra day schedule.

A44	Flow based domain constraint intraday	The information provided concerns the flow-based process in intraday.

Conclusion:

- NMEG think the best solution is to add **A02**, however we would like to verify this with the IDA project.

Action:

- Jon-Egil will verify with IDA if adding **A02** is the correct solution.
- If yes, we will add an item for next NMEG meeting for addition of the IDA process to the NBS BRS for TSO-MO.

10.13 Review of update of Nordic Energy Market Domain Model 1r2A

Ove has updated role- and domain names, i.e.:
- Replaced Market Balance Area with Scheduling Area or Bidding Zone several places.
- Replaced Balance Supplier with Energy Supplier.

Action:

- Ove will send the Nordic Energy Market Domain Model 1r2A for one week to NMEG before publishing it.

Item closed.

10.14 Review of update of NBS BRS for Master Data

Ove had as action updated roles and domains to latest HEMRM in the NBS BRS for Master Data. However, there were not enough time to complete the review. During the review, several codes were updated in the Nordic Code List. We will also ask eSett if we can update the code "**Z05** Trader" with "**A47** Energy Trader".

Action:

- Ove will publish an updated Nordic code list.
- eSett is asked if the BRS for Master Data is in use or if we can change "**Z05** Trader" with "**A47** Energy Trader" now.

10.15 Document for Nordic RCC LTFBA project

From Søren:

In the LTFBA project implementation we are in a need to deliver data to the single allocation platform for the LTA process. This means we would need to define the file format for this.

I am interested in whether you know **if there is some CIM documents available to support such data exchange**. Or that whether you **know a person from ENTSOE CIM-EG that would know about such**? What we basically need to deliver to SAP is the following below.

1) Constraints of a FB Domain for both Nordic and DK1 synchronousarea including
   a. RAM (Remaining Available Margin) value
   b. Zone-to-Zone PTDFs

We currently use the *CriticalNetworkElement_MarketDocument* for exchanging of data to NEMOs for the DAFB process. However, this document and current version does not support the exchange of *Zone-to-Zone* PTDFs, but only *Zone-to-Slack* PTDFs. Therefore, we would need to have either an updated version of this or another CIM document that would allow such exchange.

As a third option, we can also exchange the data in the same format (ECAN) as Core will be doing, but first I need to assess whether it is feasible for our use.

Jon-Egil gave a brief introduction to PTDFs, however we need more information to do anything with it. The link to the FB presentation:

https://www.statnett.no/globalassets/for-aktorer-i-kraftsystemet/utvikling-av-kraftsystemet/flow_based_capacity_calculation_methodology.pdf

Søren informed that the Nordic RCC LTFBA project has decided to forward the question to CIM EG, hence for the time being there is no need for NMEG to do anything more.

Item closed.

11   Status for Swedish Flexibility project

Background: Sweden has two ongoing "Flexibility projects" that now want to use CIM based messages for the exchanges to/from the flexibility platforms. Among others one called Stockholm flex where Vattenfall is candidate for making CIM documents for the project(s).

To keep document exchanges as harmonised as possible in the Nordic countries, NMEG has offered them NMEGs help in making the needed CIM based xml schemas.

References (links):   None.

**What to decide,
discuss or inform:**   Status report from Jan (SE).

Nothing new reported.

12   Common European Area project

Background: ebIX® has proposed a project plan for a common European Area project. ebIX®, ENTSO-E (CIM EG) and ENTSOG has confirmed participation and the new EU DSO Entity is trying to find member(s).

References (links):

**What to decide,
discuss or inform:**   Status for the project.

ebIX®, ENTSO-E, ENTSOG and the EU DSO Entity have agreed to participate in the project, however we still wait for the EU DSO Entity to nominate their member(s). Hopefully there will be a kick of meeting in October.

13   XML schemas

Background: The NMEG set of schemas, including extended table with TSO columns, are shown in Appendix D.

When we start a project together with NBM (Nordic Balancing Model), 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.

References (links):

**What to decide,
discuss or inform:**   Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG participants, which should be published at www.ediel.org.

Ongoing task:

- All 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 added to Appendix D and be published at www.ediel.org.

- Ove will update the table based on NBM documentation received from Bent Atle (NBM/Fifty), when the NMEG BRSs are updated with NBM documents.

14   NMEG CIM-XML Subgroup

Background: At the NMEG meeting November 2019, it was agreed to establish a NMEG CIM-XML Subgroup that will make Nordic CIM based XML documents. The following tasks are prioritised (updated at NMEG meeting March 2020):

   a) Update the NMEG model with the latest ebIX® extension.
   b) Make a road map for making CIM documents for the Danish Datahub version 3.0.
   c) Continue with NBS documents:

   1. NBS ebIX® based documents.
   2. NBS documents based on older ENTSO-E schemas.
   3. NBS master data documents.

The members of NMEG CIM-XML Subgroup are Christian, Jan (DK), Jan (SE), Teemu and Ove.

References (links):

**What to decide,
discuss or inform:**   Status.

Status for looking into making CIM based document to replace the ebIX® XML documents used towards eSett today.

14.1   Status for "CIM EG measurement document" and inclusion of NBS requirements

The "Memo - CIM for NBS 20220211.docx" was reviewed in our NMEG meeting in March and it was agreed to ask Jan (SE), as member of CIM EG Retail market subgroup, to bring the NBS requirements into this group when defining the new "CIM EG measurement document". The following attributes are missing or another way of specifying the same information:

- A Metering Grid Area in addition to In- and Out-Area, to say which MGA that is responsible for the reporting.
  o Here we may use the Domain in the MarketDocument class.
- Settlement method.

- - Missing but probably not needed – not used in Denmark or Finland. Used as different classes in Elhub (Profiled Observation / Observation).
  - Quantity missing (Boolean) (if need by eSett?).
    - Can be handled by omitting the quantity and use a QuantityQuality = missing.
  - Some way to identify the metering point type (production, consumption or combined).
    - There is a FlowDirection (up, down, stable, up and down), however not ideal.
  - Business type:

A04	Consumption (general consumption)
A07	Net production/consumption (Pumped storage (from combined generator/pump - only in Norway))
A15	Losses
A72	Interruptible Consumption
B27	Pumped
B28	Large installation consumption
B36	Production Units own consumption (Only used in Finland)

  - - Is present.

Conclusion:

- The document seems to fit the NBS need.
- The main missing information is if the measured data concerns production or consumption, or if the volumes are relevant for billing (Finnish need).
- Jan (SE) and Ove will bring the issue regarding production/consumption to ebIX® ETC.

Item closed.

14.2   Status for MRs to WG16 related to the Danish extension to CIM

There has been run two NMEG CIM-XML Subgroup meetings in August (August 16th and 18th). At these meeting the proposed Danish DataHub 3.0 extensions to CIM have been reviewed and a status report with a set of actions items has been drafted.

Actions:

- Christian and Jan (DK) will:

  - discuss if we shall keep meteringMethod for DataHub 3.0 or change to measurementMethod (ref item 14 in the memo).

  - discuss if Administrative Status (**E32** Active / **E33** Inactive) can be used instead of the attribute "hasEnergySupplier" (ref item 24 in the memo).

- Jan (SE) and Jan (DK) will:

  - argue in WG16 to add the type-attribute to MarketEvaluationPoint instead of to AP and EP, since it might be used to tell different types of APs (parent, child, linked….) (ref item 13 in the memo).

  - follow up the addition of attribute "administrativeStatus" to MarketEvaluationPoint (ebIX®: 2019/10 WG16: 16_0090) (ref item 17 in the memo).

  - suggest a rephrasing of the definition of readCycle to:

    > "Read Cycle ~~day on which~~ for when the meter for this usage point will normally be read. ~~Usually~~ May be correlated with the billing cycle."
    (ref item 20 in the memo).

- Jan (SE)/Ove will ask ETC:

- o if we shall make a MR for addition of an association from MktActivityRecord to ChargeGroup (ref item 6 in the memo).

- o if we shall make a MR for addition of the attribute "phaseCode" to MarketEvaluationPoint in ESMP (already part of UsagePoint) (ref item 19 in the memo).

- o if we shall make a MR for addition of the attribute "ratedCurrent" to MarketEvaluationPoint in ESMP (already part of UsagePoint) (ref item 26 in the memo).

- o if we shall make a MR for addition of the attribute "connectionState" to MarketEvaluationPoint in ESMP (already part of UsagePoint) (ref item 27 in the memo).

- o what to do with this issue related to addition of a new class EnergyTechnologyAndFuel to be associated with MarketEvaluationPoint with the attributes technology and fuel. In the current proposal technology and fuel are only associated with TimeSeries and not MarketEvaluationPoint (ebIX®: 2019/014 + 015 + 16 + 17 WG16: 16_0093 + 0094 + 0095) (ref item 30 in the memo).

- o if we shall make a MR for addition of an association from MarketEvaluationPoint to MktPSRType (ref item 31 in the memo).

- o if we shall make a MR for addition of the «ACC» ChargeType (already part of IEC62325 / MarketOperations / ParticipantInterfaces, but not part of ESMP) (ref item 32 in the memo).

- o if we shall make a MR for addition of the «ACC» ChargeComponent with the attribute equation and an association to ChargeType (already part of IEC62325 / MarketOperations / ParticipantInterfaces, but not part of ESMP) (ref item 33 in the memo).

- o if we shall make a MR for addition of t an association from Series to ChargeType (ref item 34 in the memo).

- o if we shall make a MR for addition of an association from ChargeType to MarketParticipant (used for sending the owner of a ChargeType) (ref item 35 in the memo).

- o if we shall make a MR for addition of an association from ChargeGroup to ChargeType (ref item 36 in the memo).

- o if we shall make a MR for addition of an association from ChargeType to Series_Period (ebIX® need the structure ChargeType -> SeriesPeriod -> Point -> Price) (ref item 37 in the memo).

- o if we shall make a MR for addition of the attribute "VATobliged (taxIndicator)" to ChargeType (ref item 38 in the memo).

Item closed.

15   Review of documents from CIM EG subgroups and IEC groups

Background: At the NMEG meeting August 2020 it was agreed that NMEG needs to be more proactive regarding commenting on new ENTSO-E and IEC documents. Hence it is added a fixed item on the NMEG agenda for review of documents from CIM EG subgroups and IEC groups that is of interest for the Nordic market.

References (links):

What to decide,
discuss or inform: Review of documents from CIM EG subgroups that is of interest for the Nordic market.

Nothing to review.

15.1   Prepare Nordic positions before coming CIM EG meetings

Jon-Egil informed that he will present a change request from the NBM project at the next ESMP subgroup meeting the coming Friday:

- Addition of flowDirection to the Capacity Market Document.

16   Information (if any)

Jon-Egil informed:

- There are delays in the NBM flow-based projects.

- Appendix C (Overview of Nordic memberships in international standardisation bodies) was update with Jan (SE) and Jon-Egil as members of the ENTSO-E Task Force Data Interoperability and Access, which coordinate ENTSO-E cooperation with other EU bodies, incl. review and comment on the EU Implementing Acts (IAs)

Ove informed:
- The EU DSO intend to establish a EU DSO / ebIX® co-operation workstream within EG Data Interoperability, and that Vlatka is part of this. Within the group and due to her experience, Vlatka will be the primary responsible for our liaison and the next steps. She will report back to the group and to the other experts. The EU DSO Entity is planning to get going a dedicated subgroup on this co-operation in autumn to even strengthen our ties and output for the future.

17   Next meetings

- Thursday October 6th, GoToMeeting, 10:00 to 12:00 and 13:00 to 15:00
- Tuesday and Wednesday November 22nd and 23rd, Statnett offices in Oslo

18   AOB

18.1   Older versions of Ediel BRSs

Ove informed that he got a mail from Stephan Lyck Wöllner from Energinet in July:

I have a BRP who is asking me for a description of the mFRR option bid format that Energinet is currently using. An example head of these files look like this:

```
<?xml version="1.0" encoding="UTF-8"?>
<ReserveBidDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:ediel:org:neg:errp:reservebiddocument:1:0">
  <DocumentIdentification v="RES-20220619-471dbe21-0"/>
  <DocumentVersion v="1"/>
  <DocumentType v="A24"/>
    <ProcessType v="Z04"/>
```

The best matching description I can find is this one:

It however seems to describe a much newer version of the reservebiddocument. Can you find a similar document that describes the XML v1.0?

I sent him some older versions of the BRS (1r6C, 1r7A and 1r8A). However, version 1r6C is the newest having Process Type Code = **Z04** – in later BRSs this is replaced with **A58**.

Question: Is there a need for publication of older versions of the Ediel BRSs at www.ediel.org?

Action:

- Teemu will try making an "archive folder" where older documents are stored, i.e. every time a new document version is uploaded to the document folder, the old version is move to the archive folder.

Appendix A   MR NMEG 2022/197 – Swedish Asset Types - mFRR bids/Flexibility platforms

This is a proposal for resending of NMEG 2020/188.

The MR originates from different kinds of offers Svenska kraftnät will get in the mFRR bids sent from "Flexibility platforms" starting in December 2020 in Sweden. These can be separate into six different categories (in Swedish):

1. Aggregerad kommersiell värmelast (värmepumpar i kontorsbyggnader)
2. Aggregerade elfordonsladdare (främst kommersiella men även privata)
3. Aggregerade privata värmepumpar
4. Reservkraft
5. Kraftvärme
6. Kommersiell last (industri)

Date of submission:	*nn*/*nn*/*2022*
Submittor Name:	Jon-Egil Nordvik
Organisation:	Statnett on behalf of the Nordic TSOs (Energinet, Fingrid, Statnett and Svenska kraftnät)
E-mail:	jon-egil.nordvik@statnett.no

Maintenance Request title:	NMEG 2022/197
Impacted document/schema:	ENTSO-E code list
Clause/Paragraph/Figure/Table:	Asset Type code list
Description of issue:	
(Business requirement, reason for request, documentation/schema change request or impact)	
Reserve bids in the Nordic mFRR market, from "Flexibility platforms", are separated into six different categories:	

1. Aggregated commercial ~~heat~~ operational load, ~~(~~such as heat pumps in office buildings~~)~~
2. Aggregated electric vehicle chargers (mainly commercial but also private)
3. Aggregated private heat pumps
4. Reserve power
5. Cogeneration (Combined Heat and Power)
6. Commercial load (industry)

Hence, new Asset Type codes are needed.

Proposed resolution:

1. Add the following Asset Type codes to the ENTSO-E code list.

ENTSO-E Code List change request			
Type of code	**Code**[1]**:**	**Definition:**	**Description:**
Asset Type List		Aggregated commercial ~~heat~~ operational load	A resource using aggregated commercial ~~heat~~ operational load, including heat pumps in office buildings, for energy.
Asset Type List		Aggregated electric vehicle chargers	A resource using aggregated electric vehicle chargers, commercial and private, for energy.
Asset Type List		Aggregated private heat pumps	A resource using aggregated private heat pumps for energy.

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[1] The "Code" field is to be completed in the case of modifications to existing codes.

Asset Type List		Reserve power	A resource using reserve power for energy.
Asset Type List		Cogeneration (Combined Heat and Power)	A resource using cogeneration, combined heat and power, for energy.
Asset Type List		Commercial load (industry)	A resource using commercial load (industry), for energy.

Appendix B   Possible new Asset Types used in Denmark

The following Asset types are used in Denmark:

Danish codes		ENTSO-E codes	
D01	Steam turbine with back-pressure mode	**B39**	Thermal steam turbine with back-pressure turbine (open cycle)
D02	Gas turbine	**B38**	Thermal combined cycle gas turbine with heat recovery
D03	Combined cycle		
D04	Combustion engine gas	**B04**	Fossil Gas
D05	Steam turbine with condensation / steam	**B40**	Thermal steam turbine with condensation turbine (closed cycle)
D06	Boiler	**B46**	Thermal steam engine
D07	Stirling engine	**B44**	Thermal Stirling engine
D08	Permanent connected electrical energy storage facilities		MR will be sent for renaming **B25** to "Permanent energy storage"
D09	Temporarily connected electrical energy storage facilities		MR for new code will be sent to CIM EG "Temporary energy storage"
D10	Fuel Cells	**B45**	Thermal fuel cell
D11	Photo voltaic cells	**B28**	Solar photovoltaic
D12	Wind turbines	**B30**	Wind unspecified
D13	Hydroelectric power	**B31**	Hydro-electric unspecified
D14	Wave power	**B34**	Marine wave
D15	Mixed production		
D16	Production with electrical energy storage facilities		
D17	Power-to-X		
D18	Regenerative demand facility		
D19	Combustion engine – diesel	**B06**	Fossil Oil
D20	Combustion engine - bio	**B01**	Biomass
D99	Unknown technology	**B20**	Other unspecified

Appendix C Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anders (SE)	CGMES, ESMP
Anne Stine	NMEG, ebIX®
Bertil (SE)	EBG
Christian	NMEG, ebIX® observer (?)
Fedder	NMEG, CIM EG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (SE)	NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD
Jon-Egil	NMEG, CIM EG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC, TFD
Martin (SE)	CCC
Miika	CIM EG, NEX
Moustafa (SE)	CGMES
Oscar	CIO/LIO, ebIX®, CIM EG
Ove	NMEG, HG, ebIX®, IEC/WG16
Svein (NO)	IEC/WG14+13, CGMES
Teemu	NMEG, CIM EG, EBG, ETC, CIO/LIO

Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM EG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM EG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM EG)
Dc	ENTSO-E Digital committee
EBG	ebIX® Business Group
EEAT	ENTSO-E Enterprise Architecture Team (subgroup under Dc)
ESMP	European Style Market Profile (subgroup under CIM EG)
ETC	ebIX® Technical Committee
HG	ebIX®, EFET and ENTSO-E Harmonisation Group
MC	ENTSO-E Market Committee
MIT	Market Integration and Transparency (subgroup under MC)
NEX	Nordic ECP/EDX Group
TFD	ENTSO-E Task Force Data Interoperability and Access,
TPC	Transparency Platform Coordinators (subgroup under MIT)

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

#	XML schema	BRS	Version used by					
			NBS	NMA	Energinet	Fingrid	Statnett	Svk
1.	NEG ECAN publication document	NBS BRS for TSO/MO	1.0					1.0, 7.0
2.	NEG ERRP Reserve Allocation Result Document	a) NBS BRS for TSO/MO b) BRS for Trade	1.0					1.0
3.	NEG Area Specification Document	a) NBS BRS for Master Data b) BRS for Trade	1.0[2]	2.0 (CIM)				
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					7.0 (not complete)
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					5.0
15.	ENTSO-E ESS Schedule Document	a) NBS BRS b) NBS BRS for TSO/MO	4.1					5.0
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						1.0

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[2] 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						5.0 (not complete)
26.	Capacity Market Document	????						7.1, 8.0