


<b>Minutes:</b> NMEG meeting <b>Date:</b> Thursday October 6 <sup>th</sup> , 2022 <b>Time:</b> 10:00 – 12:00 and 13:00 – 15:00 <b>Place:</b> GoToMeeting October 7 <sup>th</sup> , 2022	 <b>NMEG</b> Nordic Market Expert Group
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**Present:** Bent Atle, Statnett (NBM)  
Jan (DK), Energinet  
Jan (SE), Svenska kraftnät  
Jon-Egil, Statnett (Convenor)  
Ove, Edisys (Secretary)  
Søren, Nordic RCC  
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 – Tage is leaving NMEG  
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:** Possible new Asset Types used in Denmark  
**Appendix B:** Overview of Nordic memberships in international standardisation bodies  
**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:

- Update of NBS BRS with the option of sending negative losses, see item 10.12.
- Code requests from NBM, see item 10.13.
- Change of datatypes from basic CIM to profiles, see item 14.1 under NMEG CIM-XML Subgroup.

Prioritised items:

- Item 6, Support to the NBM project – prioritised item.
- Item 8.1, Fuel cell
- Item 10, Status and update of Nordic BRSs and other documents if needed.

## 2 Approval of previous meeting minutes

The previous meeting minutes were approved after correction of two spelling errors found by Jan (SE).

## 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.

### 3.1 Sensitive documents at [www.ediel.org](http://www.ediel.org)

A set of potentially sensitive documents have been removed from [www.ediel.org](http://www.ediel.org) (see list in the agenda), after request from Jon-Egil, and uploaded to Statnett eRoom.

Are there more potential sensitive documents at [www.ediel.org](http://www.ediel.org)?

Do we need to agree some rules for what to publish?

From discussion:

- Jan (SE) informed that the Swedish installation guide is referenced in other Swedish documents, hence removing it is a problem for the market.
- Jon-Egil informed that the documents can be put back if it is checked for sensitive information.

**Action:**

- All are asked to verify that need documents DO NOT contain sensitive information. After checking, the documents to be published can be sent to Ove for publication at [www.ediel.org](http://www.ediel.org).

Item closed.

## 4 Nordic RCC

**Background:** The Nordic RCC is working on TSO data exchange regarding Long-term Capacity Calculation process and need changes to ESMP and CIM.

**References (links):** None.

**What to decide, discuss or inform:** Update of ESMP and CIM based on Nordic RCC needs.

Ove had as action made 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.

The item will be removed from the coming agendas.

## 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.

### 6.1 Update of NMEG BRSs based on NBM input

Ove had as action cleaned up the BRS Nordic Trading System and sent it to NMEG for one week of commenting and thereafter published it.

**Action:**

- 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](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](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](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)
- Ove will add the NBM MeasurementData\_MarketDocument to the Nordic Operate BRS.

At next meeting we should review the updated BRS for Determine transfer capacity.

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

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 WG.
- Status:**
- The inclusiveBidsIdentification (String) attribute is added in the BidTimeSeries class in the ESMP (62325-351) by Alvaro, however it is not yet approved by WG16 and neither added to Becky's version of 62325-301.
- Made a Nordic version of the ReserveBid\_MarketDocument (extended with a MktPRSType class), sent it on circulation for comments to NMEG for one week and finally published it.

**Status:**

- Published at [www.ediel.org](http://www.ediel.org).

Item closed.

## 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: <ol style="list-style-type: none"> <li>1) “<del>Regulation Type</del> <b>Technology type</b>” to identify the origin of the energy (thermal, wind, hydro and consumption)</li> <li>2) “<del>Production Category</del> <b>Resource size</b>”, currently called Production Type (normal, minor)</li> <li>3) Aggregation-criteria for “Type of metered data”, currently implemented as ENTSO-E Business Types (production, consumption, losses, ....) - Changed to “<b>Business type</b>” and “<b>Business type details</b>”</li> </ol> (The request originates from NBS)	<ul style="list-style-type: none"> <li>• The ebIX® BRS for measure for imbalance settlement is being finalised within ebIX® and NMEG updated the MR at the meeting June 2<sup>nd</sup>, 2022.</li> </ul> <p><b>20220602:</b></p> <ul style="list-style-type: none"> <li>• Updated based on request from EBG.</li> </ul> <p><b>20220824:</b></p> <ul style="list-style-type: none"> <li>• Action for Jan (SE) and Ove: ask if we can rename “Business Type Detail” to PSRType (Power System resource Type).</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>• Awaiting EBG addition of PSRType to AP administrative characteristics and possible rename of the attribute name.</li> </ul>

Jan (SE) and Ove will have as action from previous meeting asked EBG for a status for addition of PSRType to AP administrative characteristics and possible rename of the attribute name. However, no good name was found for the requested new attribute. The conclusion from the EBG meeting was:

- Jan and Ove will bring the topic back to NMEG, i.e. try to find a better name for the attribute and a better justification for why and were to add the attribute (the attribute is used both in aggregated time series and as master data in AP characteristics).

## 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 WG.

**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,	<p><b>20220304:</b></p> <ul style="list-style-type: none"> <li>• Postponed since Jan (SE) was sick.</li> </ul> <p><b>20220602:</b></p>

	<p>including heat pumps in office buildings, for energy).</p> <p>Aggregated electric vehicle chargers (A resource using aggregated electric vehicle chargers, commercial and private, for energy).</p> <p>Aggregated private heat pumps (A resource using aggregated private heat pumps for energy).</p> <p>Reserve power (A resource using reserve power for energy).</p> <p>Cogeneration (Combined Heat and Power) (A resource using cogeneration, combined heat and power, for energy).</p> <p>Commercial load (industry) (A resource using commercial load (industry), for energy).</p>	<p><b>Action:</b></p> <ul style="list-style-type: none"> <li>○ Jan (SE) will verify if the still is OK.</li> <li>• If yes, Jon-Egil will submit the MR to CIM WG.</li> </ul> <p><b>20220823:</b></p> <ul style="list-style-type: none"> <li>• MR sent from Ove to Jon-Egil August 26<sup>th</sup> for forwarding to CIM WG.</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>• Jon-Egil will verify the MR is sent.</li> </ul>
NMEG 2022/199	Add a new element "inclusiveBidsIdentification" to the iec62325-451-7-reservebiddocument_v7_3.xsd	<p><b>20220304:</b></p> <ul style="list-style-type: none"> <li>• Not approved at ENTSO-E ESMP meeting February 25<sup>th</sup>.</li> <li>• 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?</li> </ul> <p><b>20220602:</b></p> <ul style="list-style-type: none"> <li>• MR updated and will be sent to WG16</li> </ul> <p><b>20220602:</b></p> <ul style="list-style-type: none"> <li>• To be continued</li> </ul> <p><b>20220823:</b></p> <ul style="list-style-type: none"> <li>• Under discussion in WG16 and will be added as an issue in Redmine.</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>• Agreed, but not yet added to CIM.</li> </ul>
NMEG 2022/201	Rename Asset Type <b>B25</b> to " <b>B25 Permanent</b> energy storage"	<p><b>20220321:</b></p> <ul style="list-style-type: none"> <li>• Sent to Jon-Egil for forwarding to CIM WG</li> </ul> <p><b>20220823:</b></p> <ul style="list-style-type: none"> <li>• Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType.</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>• Ongoing</li> </ul>
NMEG 2022/202	Add Asset Type " <b>B??</b> Temporary energy storage".	<p><b>20220321:</b></p> <ul style="list-style-type: none"> <li>• Sent to Jon-Egil for forwarding to CIM WG</li> </ul> <p><b>20220823:</b></p>

		<ul style="list-style-type: none"> <li>Forwarded to WG16, proposed having permanent and temporary as separate codes in PSRType</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul>
NMEG 2022/203	Rename the title of the Process Type <b>A58</b> from "Reserve option market" to "mFRR capacity market"	<p><b>20220425:</b></p> <ul style="list-style-type: none"> <li>Sent to Jon-Egil for submission to CIM WG</li> </ul> <p><b>20220823:</b></p> <ul style="list-style-type: none"> <li>To be continued</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>To be continued</li> </ul>
NMEG 2022/203 (WG16)	Add a new attribute "inclusiveBidsIdentification" to the BidTimeSeries class.	<p><b>20220422:</b></p> <ul style="list-style-type: none"> <li>Forwarded by Ove to Jan (SE) with a copy to Jon-Egil for submission to WG16</li> </ul> <p><b>20220602:</b></p> <ul style="list-style-type: none"> <li>Send to WG16 by Jan (SE) with ID NMEG 2022/204 (duplicate ID number (see below) 😞 )</li> </ul> <p><b>20220922:</b></p> <ul style="list-style-type: none"> <li>From Jan (SE): The addition of inclusiveBidsIdentification to BidTimeSeries has the issue id 5980 in Redmine, see <a href="https://redmine.ucaiug.org/issues/5980">https://redmine.ucaiug.org/issues/5980</a></li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul>
NMEG 2022/204 (CIM WG)	Add the MktPSRType class to the NBM mFRR Energy Activation Market (ReserveBid_MarketDocument)	<p><b>20220616:</b></p> <ul style="list-style-type: none"> <li>Forwarded by Ove to Jon-Egil for submission to CIM WG</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>Approved – item closed</li> </ul>
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	<p><b>20220907:</b></p> <ul style="list-style-type: none"> <li>Forwarded by Ove to Jon-Egil for submission to CIM WG</li> </ul> <p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>Ongoing</li> </ul>
NMEG 2022/206 (CIM WG)	Add new Asset type codes: <b>D16</b> Production with electrical energy storage facilities <b>D17</b> Power-to-X <b>D18</b> Regenerative demand facility	<p><b>20221006:</b></p> <ul style="list-style-type: none"> <li>New MR to be drafted by Ove and thereafter forwarded to Jon-Egil for submission to CIM WG</li> </ul>

## 8.1 Fuel cell

From Søren (Nordic RCC):

I would like to reiterate that regarding the question in entry 8 regarding Fuel Cells, I still think the request was proper. For some reason Fuel Cells are categorized as thermal power, and consequently the Asset Type Thermal Fuel Cell is derived. However, from an engineering point of view it does not make sense, fuel cells are not thermal power, it is electrochemical. We might as

well categorize Fuel Cells as wind power and derive the Asset Type Wind Fuel Cell. Thus, there might be some reason to group it with thermal power (I don't know which that might be), but it would make a lot of sense to get rid of the nonsense term Thermal Fuel Cell and use just Fuel Cell as the requester suggested.

From previous meeting minutes:

MR #		Status
NMEG 2022/200	Rename Asset Type "B45 <del>Thermal</del> Fuel cell"	<p><b>20220321:</b></p> <ul style="list-style-type: none"> <li>Sent to Jon-Egil for forwarding to CIM WG</li> </ul> <p><b>20220602:</b></p> <ul style="list-style-type: none"> <li>To be continued</li> </ul> <p><b>20220823:</b></p> <ul style="list-style-type: none"> <li>A fuel cell is always thermal, hence rejected.</li> </ul>

Shall we try to change CEN/CENELEC JWG2, EN 16325:2013 rev standard from 2013-02?

**Conclusion:**

- We don't think it is NMEG job to request this change, hence item closed.

## 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.

Handled under item 8 above (NMEG 2022/203 (WG16)).

Item closed.

## 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](http://www.ediel.org).

**References (links):** None.

**What to decide,**

**discuss or inform:** Update of BRSs and other documents if needed.

Ove informed that the following documents have been uploaded to [www.ediel.org](http://www.ediel.org) since previous NMEG meeting:

- Nordic Energy Market Domain Model 1r2A - 20220919.pdf
- BRS for Nordic Scheduling and Ancillary Services Processes v3r1A 20220919.pdf
- Nordic Trading System BRS Draft for 2r1A - 20220902.pdf
- urn-entsoe-eu-local-extension-types.xsd

### 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.

Since nothing has happen for a long time, the item is closed.

## 10.2 BRS for Nordic Trading System: Usage of roles

Ove had updated and published the BRS for Nordic Trading System after previous meeting, however there were some comments that were rediscussed:

- Several roles, i.e. BRP, Reconciliation Responsible, System Operator and Imbalance Responsible Party, are used in the Business Data View, but not mentioned in the chapter 2.3 Overview of information exchange for operational markets. Should we add some explanatory text for this?

### **Conclusion:**

- Ove will make a table showing mismatch between the sequence diagram and the sender/receiver roles in the Business Data View. for discussion next meeting.
- In chapter “2.2 Breakdown of the trading phase”, the UC “Bilateral trade” is put to the left, while the “Bilateral trade between LFC Operators” are put to the far right of the sequence diagram in chapter “2.3 Overview of information exchange for operational markets. Should we say why the UC is grey, such as not documented (?) in chapter 2.2 under the UC diagram?

### **Conclusion:**

- Yes, and add a reference to the NBS BRS.
- The Day-ahead and Intraday markets are removed from the BRS. Should we recolour the UC in chapter “2.2 Breakdown of the trading phase” and move the text in chapter “2.4.3. Day-ahead market” and chapter “2.4.4. Intraday market” to comments below the UC diagram in chapter “2.2 Breakdown of the trading phase”?

### **Conclusion:**

- Yes, The BRS for Nordic Trading System will be updated.
- We should review the cardinalities of the attributes in chapter “5.8 MOL document”.

### **Conclusion:**

- Reviewed and updated.

### **Action:**

- Ove will update the BRS for Nordic Trading System.
- A review of the table showing mismatch between sender/receiver in the Business Data View and the sequence diagram will be put on the next meeting agenda.

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

Jon-Egil informed that the document now is approved by CIM WG, and the result is in line with the NMEG view. I.e., we can choose between two principles, either actively use the version number in the Market document class (increase each new version number by one) or always use version number one (“1”).

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.

Since we will do updates due to changes from 60 minutes to 15 minutes resolution, why not also do something about the exchange of e.g. MSCONS messages to something more modern”.

See documents from Jan (SE):

- PowerPoint presentation “Settlement information between TSOs.pptx”, which was distributed to NMEG February 28<sup>th</sup>, and redistributed October 6<sup>th</sup>.
- Excel sheet showing settlement related information exchanges with the following columns: “Description”, “Per (MP, SO...)”, Unit, Partis for Svk exchange” and “Comments Svk”, distributed June 2<sup>nd</sup>, and redistributed October 6<sup>th</sup>.

**Continued action:**

- Jan (SE), Jon-Egil, Teemu and someone from Denmark 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 November 15<sup>th</sup>, who will merge the results.
- Ove will send a reminder around 1<sup>st</sup> of November.

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

Jan (DK) had as action investigated how **D03**, **D15**, **D16**, **D17** and **D18** are used and has come up with information of the usage of the different codes:

#### **Combined Cycle (D03)**

Combined Cycle is a gas turbine followed by a steam turbine we only have 12 of this kind in DK I am informed!

Just for clarification: Viborg and also Silkeborg CHP plant consists of a gas turbine + a steam turbine, where the first can start quickly, while the steam turbine must have heat from the gas turbine before it is ready (the steam turbine has a start-up time of approx. 30-45 min). The combination of a gas turbine and a steam turbine is called the 'combined cycle'

The usage of “**D03** Combined cycle” was proposed correspond to **B38** (Thermal combined cycle gas turbine with heat recovery) instead of **B03**.

### **Mixed production (D15)**

At addresses where there is more than one technology, there is a market need to better visualize that at these addresses there are several different production units represented. e.g., a combination of:

- Solar cells & wind turbines
- Solar cells & utilities
- Solar cells, wind turbines and production plants
- Windmills & works

### **Production facilities in combination with energy storage facilities (D16 Production with electrical energy storage facilities)**

As more and more production plants are connected to a battery (which can supply energy to the grid), there is a need to be able to register these together.

### **Power-to-X (D17 Power-to-X)**

The working group proposes that the current code should be changed, and instead be prepared for future Power-to-X plants, (actually X-to-power), so that we have a plant technology ready for these plants.

### **Regenerative consumption systems (D18 Regenerative demand Facility)**

Regenerative consumption systems, e.g. cranes, roller coasters, elevators and the like, will be able to supply energy to the grid. In order to identify these and distinguish them from other production facilities, there is a market-oriented desire for these to have their own plant technology.

Jan (SE) informed that the EECS Rules Fact Sheet “5 Types of energy inputs and technologies” can be found at:

<https://www.aib-net.org/sites/default/files/assets/eecs/facts-sheets/AIB-2019-EECSFS-05%20EECS%20Rules%20Fact%20Sheet%2005%20-%20Types%20of%20Energy%20Inputs%20and%20Technologies%20-%20Release%207.7%20v5.pdf>

#### **Action**

- Ove will make MRs for:
  - D16** Production with electrical energy storage facilities
  - D17** Power-to-X
  - D18** Regenerative demand facility

See also Appendix A, Possible new Asset Types used in Denmark.

Item closed.

#### *10.6 Review of NMEG code list*

Ove has done a brief review of the NMEG code list without finding any codes that could be deprecated.

Item closed.

#### *10.7 Usage of Reason codes in NBS BRS for TSO-MO– prioritised item*

#### **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**).

The item was postponed.

### 10.8 *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.

### 10.9 *eSett: Ediel currency exchange rate market document*

For information:

Ove had as action asked Tuomas if it is enough having the “Currency Exchange Rate Market Document issue” in in the BRS for Nordic Trading System or if we also should add the document to the NBS BRS.

Response from Tuomas:

*For now, I think it is sufficient that the description is in the BRS for Nordic Trading System. We can then direct readers to correct document in our own guidelines. However, if we see that it will cause a lot of confusion or questions from the market, we might need to reconsider.*

An updated BRS for Nordic Trading System, where all relevant codes are added is published at [www.ediel.org](http://www.ediel.org).

Item closed.

### 10.10 *eSett: 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.

<b>A02</b>	Intra day incremental	The information provided concerns an intra day schedule.
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<b>A44</b>	Flow based domain constraint intraday	The information provided concerns the flow-based process in intraday.
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**Conclusion at NMEG meeting August 24<sup>th</sup>, 2022:**

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

Tuomas and Jon-Egil and Tuomas had verified with IDA that adding **A02** is the correct solution, hence the NBS BRS for TSO-MO was reviewed and it was agreed that Process type **A02** will be added to all Process types where we have **A19** today.

**Action:**

- Ove will add Process type **A02** to all Process types where we have **A19** today.
- Thereafter the BRS will be sent to eSett for verification before sent to NMEG for 1 week before publication.

*10.11 Continue review of update of NBS BRS for Master Data*

**Action:**

- eSett is asked if the BRS for Master Data is in use or if we can change “**Z05** Trader” with “**A47** Energy Trader” now.

The item was postponed.

*10.12 Update of NBS BRS with the option of sending negative losses*

From Tuomas:

Updating the ‘NBS BRS’ chapter ‘5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - consumption’ to enable a sign handling for consumption type “Losses” (**A15**), i.e. losses can be reported as a negative quantity.

The background is that eSett is preparing for the 15-minute settlement, and we also need to enable “negative losses”. Reason is that some of the metering and reporting shifts to 15 min and other stays in hour, which may cause a calculated losses to have a negative value.

See a simplified calculation example of such situation below.

15 min ISP	MGA Exchange (import)	Production	Consumption (hourly split to 15 min)	Calculated Losses
00-15	10	5	28	<b>-13</b>
15-30	15	15	28	2
30-45	15	25	28	12
45-60	10	25	28	7

So basically, we need to remove following comment (in 5.2.1) or add an exception for it.

**Comments to the diagram:**

- A Balance Supplier and a Business Type are added for the Nordic Balance Settlement.
- Quantities shall always be positive

Also, the table in 5.2.2 should probably be updated:

	<b>Observation Detail Energy Observation</b>	[1]		
Quantity	Energy Quantity	[1]	Quantity	The quantity in question  <b>Note:</b> <ul style="list-style-type: none"> <li>The resolution is maximum in Watt, i.e. max 3 decimals for kWh and max 6 decimals for MWh</li> <li>Business type "A07 Net production/consumption" uses signed values, i.e. will be negative when pumping.</li> </ul>

The highlighted part regarding **A07** isn't valid at least in eSett, so from our point of view it could be removed. Currently pumping is reported similarly as other consumption (i.e. positive values), and production is reported normally as a production (hydro) with '5.1 NEG (ebIX® based) Validated Data for Settlement for Aggregator (E66, E44)' or '5.3 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) - production'.

However, a similar note could be added for **A15** Losses.

*Some general thoughts from Bent Atle:*

Net Production/Consumption is probably not a business type. I've started to associate it like this, imagine if a company were to just do net sales or online purchases?

I don't like that dedicating multiple attributes to a Business, it's an annoying... I would like the Document Type, Process Type and Business Type to tell on an overall level what kind of store this is. Then you can enrich it, using attributes such as Reason and others.

I would prefer a code (not Business Type, but maybe Reason Code) for "Gross" and "Net", and another attribute for losses (if they come in the same message).

**Action – mail sent to Tuomas Wednesday November 16<sup>th</sup>:**

- Ove will add a comment that the losses can be negative (similar to what is stated for **A07**)
- Ove will contact Tuomas and inform that "Jon-Egil informs that Statnett is sending pumping as negative production to eSett" and ask Tuomas to verify that pumping really can be sent as negative values for the Business Type **A07**.

### 10.13 Code requests from NBM

The following codes are requested by NBM:

- Z66** Adjusted *Definition:* The information in question is adjusted or a result of an adjustment).
- Z67** Override *Definition:* The information in question is overridden or a result of an override of data).
- Z68** Emergency *Definition:* There is a need for emergency assistance using agreed product).
- Z69** Shadow Auction *Definition:* The flow is related to shadow auction trade

NBM suggest the following updates of code names:

- Z50** Supportive power s-Special The object relates to Supportive power special
- Z51** Supportive power d-Disturbance The object relates to Supportive power disturbance

NBM suggest that we deprecate the Quality type code, since there is a new similar code in the ENTSO-E code list:

*NMEG code list:*

- Z01** Calculated *Definition:* The contents of the object are calculated.

*ENTSO-E code list:*

**A06 Calculated**    *Definition:* The contents of the object are calculated. The code is typically used when a value is calculated based on several other known values.

The proposals were agreed.

**Conclusions:**

- Ove will update the code list and send it to NMEG for one week before publication.

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).

Jan (SE) informed that a status will be presented for CIGRE by Vattenfall.

## 12 Common European Area project

**Background:** ebIX<sup>®</sup> has proposed a project plan for a common European Area project. ebIX<sup>®</sup>, ENTSO-E (CIM WG) and ENTSOG has confirmed participation and the new EU DSO Entity is trying to fine member(s).

**References (links):**

**What to decide,**

**discuss or inform:** Status for the project.

Still waiting for the EU DSO Entity to find participants.

## 13 XML schemas

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

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](http://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](http://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 C and be published at [www.ediel.org](http://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.

The item was postponed.

## 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,**

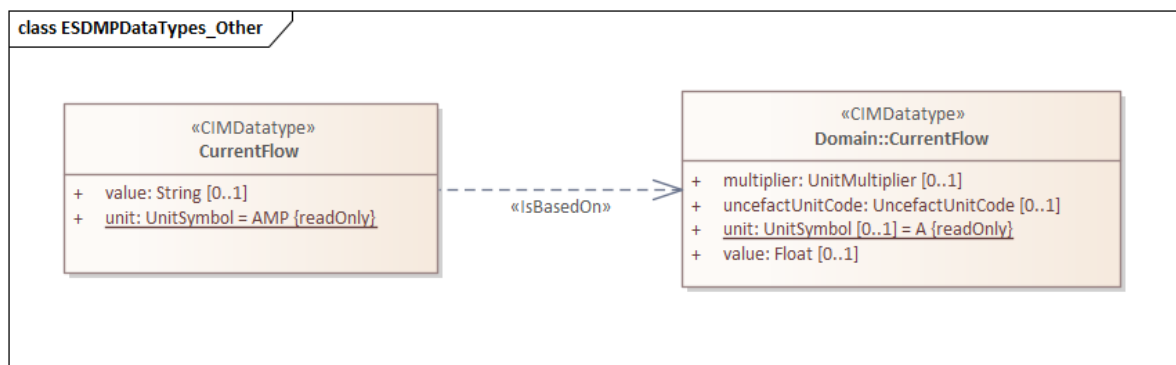
**discuss or inform:** Status.

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

**Nothing reported.**

### 14.1 Change of datatypes from basic CIM to profiles

The following figure is taken from the ESDMP model made for the Danish DataHub:

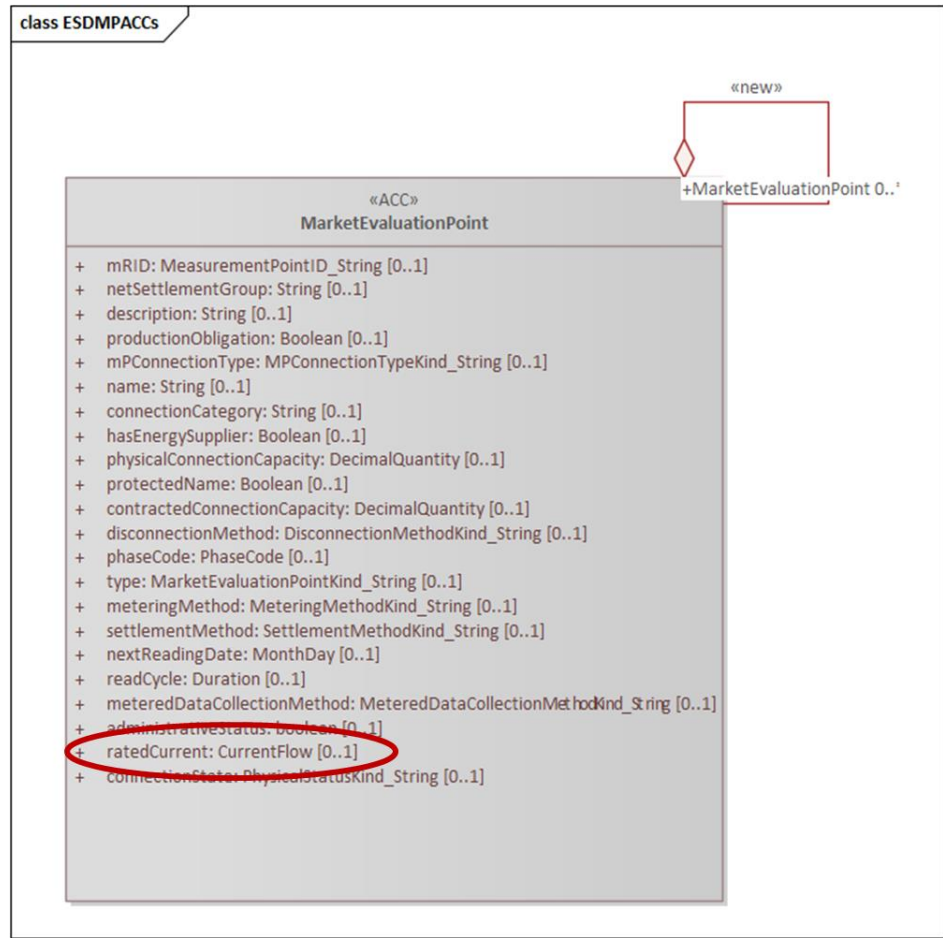


Jan (SE) noted during the WG16 meeting in Minnesota that it is not allowed to change the data type from "Float" to "String". Whether you can change "Float" to "Decimal" is unclear and should be checked. One may limit the data types, but not expand them. E.g., "Float" (or "Decimal") could become an "Integer". Then it should probably be a qualifier for your own data type.

Ove informed that the class diagram is taken from the ESDMP model we made in NMEG CIM xml Subgroup, and it appears that it is used in Denmark, e.g. for ratedCurrent.

**Should we do anything about it?**

The item was postponed.





## 15 Addition of an “archive folder” at Ediel.org

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.

The item was postponed.

## 16 Review of documents from CIM WG 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 WG 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 WG subgroups that is of interest for the Nordic market.

### 16.1 *Prepare Nordic positions before coming CIM WG meetings*

There were no items to prepare.

## 17 Information (if any)

CIM EG is renamed to CIM WG.

## 18 Next meetings

- Tuesday and Wednesday November 22<sup>nd</sup> and 23<sup>rd</sup>, Statnett offices in Oslo

Ove will send a Doodle for a two-hour meeting in December

## 19 AOB

No items

## Appendix A 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	<del>B38</del>	<del>Thermal combined cycle gas turbine with heat recovery</del>
		B41	Thermal gas turbine with heat recovery (Unit in which heat energy is converted to electricity called Simple Cycle Gas Turbine. The power is generated by the gas turbine and the flue gas waste heat is recovered (e.g. to district heating network)).
D03	Combined cycle	<del>B03</del>	<del>Fossil Coal derived gas (A resource using Fossil Coal derived gas for energy)-</del>
		B38	Thermal combined cycle gas turbine with heat recovery
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" <b>Status 20221006:</b> <ul style="list-style-type: none"> <li>Awaiting response from IEC/TC57/WG16 regarding the MRs NMEG 2022/201.</li> </ul>
D09	Temporarily connected electrical energy storage facilities		MR for new code will be sent to CIM WG "Temporary energy storage" <b>Status 20221006:</b> <ul style="list-style-type: none"> <li>Awaiting response from IEC/TC57/WG16 regarding the MRs NMEG 2022/202.</li> </ul>
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	B20	Other unspecified (Other unspecified technology)
D16	Production with electrical energy storage facilities		<b>Status 20221006:</b> <ul style="list-style-type: none"> <li>Ove will make an MR to CIM WG.</li> </ul>
D17	Power-to-X		<b>Status 20221006:</b> <ul style="list-style-type: none"> <li>Ove will make an MR to CIM WG.</li> </ul>
D18	Regenerative demand facility		<b>Status 20221006:</b> <ul style="list-style-type: none"> <li>Ove will make an MR to CIM WG.</li> </ul>
D19	Combustion engine – diesel	B06	Fossil Oil
D20	Combustion engine - bio	B01	Biomass
D99	Unknown technology	B20	Other unspecified

## Appendix B 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 WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (SE)	NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD
Jon-Egil	NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, TPC, TFD
Martin (SE)	CCC
Miika	CIM WG, NEX
Moustafa (SE)	CGMES
Oscar	CIO/LIO, ebIX®, CIM WG
Ove	NMEG, HG, ebIX®, IEC/WG16
Svein (NO)	IEC/WG14+13, CGMES
Teemu	NMEG, CIM WG, EBG, ETC, CIO/LIO

### Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM WG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM WG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM WG)
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 WG)
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 C 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 <sup>1</sup>	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
25.	ENTSO-E ERRP Activation Document	BRS for Operate						5.0 (not complete)

<sup>1</sup> 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.

26.	Capacity Market Document	???							<b>7.1, 8.0</b>
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