Minutes: NMEG meeting **Date:** Tuesday December 5th **Time:** 10:00 – 15:00 **Place:** GoToMeeting December 8th, 2023	**NMEG** Nordic Market Expert Group

Present: Bent Atle, Statnett (NBM)
                         Henrik, Energinet
                         Jan (DK), Energinet
                         Jan (SE), Svenska kraftnät
                         Jon-Egil, Statnett (Convenor)
                         Mario, Elhub
                         Ove, Edisys (Secretary)
                         Teemu, Fingrid

To (NMEG):   Anne Stine, Elhub
                         Christian, Energinet
                         Henrik, Energinet
                         Jan (DK), Energinet
                         Jan (SE), Svenska kraftnät
                         Jon-Egil, Statnett (Convenor)
                         Miika, Fingrid
                         Ove, Edisys (Secretary)
                         Teemu, Fingrid

CC: Bent Atle, Statnett (NBM)
                         Fedder, Energinet
                         Fredrik, Fingrid
                         Hans Erik, Elhub
                         Mario, Elhub
                         Pamina, Energinet
                         Tage, Energinet

To (Invited guests): Antti, eSett, FI
                         Søren, Nordic RCC
                         Tommy, eSett, FI
                         Tuomas L, eSett, FI
                         Tuomas P, eSett, FI

Appendix A: Overview of Nordic memberships in international standardisation bodies
Appendix B: 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:

- CIM for Elhub, see item 18.2.

2   Approval of previous meeting minutes

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

3   Resolve matters related to close down of ebIX®

Background: ebIX® Forum decided at their meeting March 21st to prepare a plan for the closing of ebIX® by the end of 2023. The close down was confirmed at an ebIX® Forum meeting May 30th.

References (links):
What to decide,
discuss or inform: Discuss and resolve possible consequences for NMEG.

Noting to be resolved seen from a Nordic point of view.

4   Alternative to Unicorn Mades (ECP) End Point in the GO language from Energinet (Henrik)

Energinet has developed an alternative to the Unicorn Mades (ECP) End Point in the GO language that is 100 times faster than and uses 100 times less resources than the alternative from Unicorn. Energinet and Statnett will run a pilot project to test it out.

Henrik reported that the project is ongoing and that it seems that the alternative ECP End Point works well. However there are some concerns that Energinet not want to be a software vendor and there are some financial issues.

The item will be followed up at our next NMEG meeting.

5   Dynamic dimensioning (Henrik)

The Nordic Dynamic dimensioning project will make an optimisation of the mFRR market. It is a Nordic TSO project based on AI. It should be relevant for NMEG when the project comes to data exchange between the TSOs. Henrik showed a presentation:

- Main objectives for the data maintenance group is to create a detailed data needs overview, facilitate data exchange and governance, and coordinate product development.
- Objectives:
    - Data needs overview:
        - Ensure complete data need understanding for dimensioning products
    - Data exchange and governance:
        - Facilitate initial data exchange and suggest data governance setup
    - Product development coordination:
        - Develop understanding of N-Side's work, and support coordination between TSOs during development of dimensioning products (e.g. N-Side, Common dimensioning platform)
- Resources and setup:
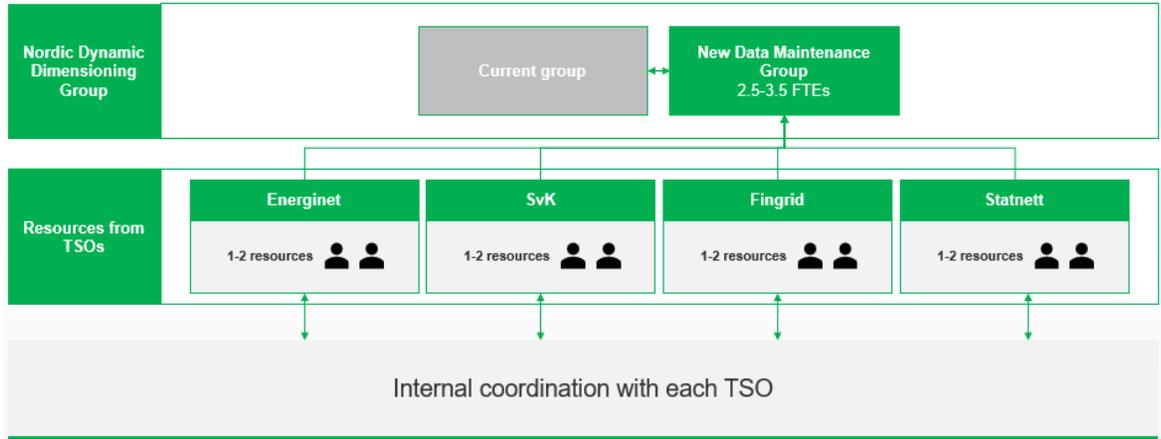
- Timeline:
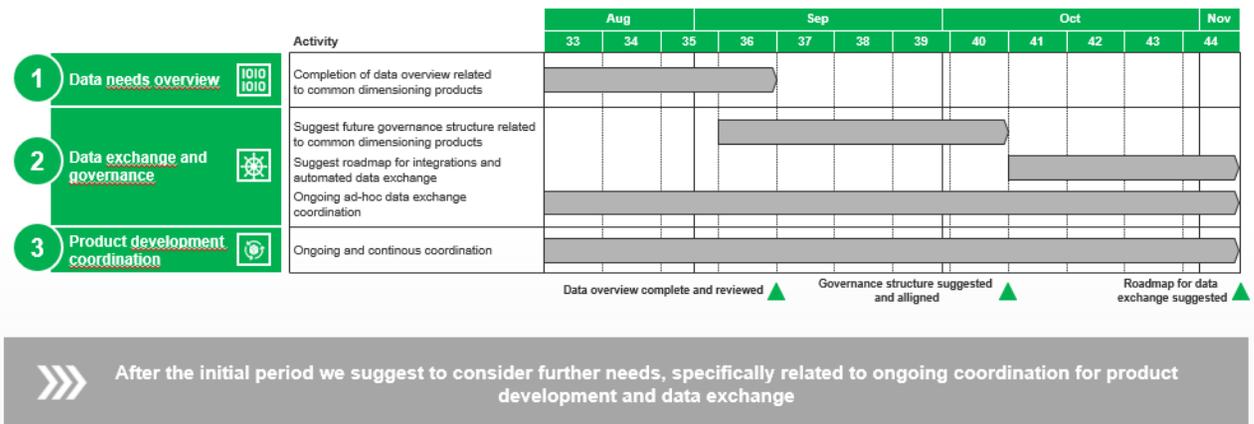
The intention is having something up and running at the end of next year.

Action:

- All are asked to investigate if NMEG can be involved in the project.

6   NMEG recommendation for usage of ECP

At the previous NMEG meeting it was concluded that we, at this meeting, should initiate the task of making a NMEG ECP recommendation.

Jon-Egil presented the memo "ECP taskforce NBM NEX". The NEX group is the one who have the knowledge and the one to making the first draft of an ECP recommendation.

Action:

- NMEG will follow up on NEX.

7   Message for control of load in a Metering Point (to remember item from Fingrid)

Noting new reported, hence the item was postponed.

8   Ediel.org Mysql issue

www.ediel.org was down for some hours in July. It seems like the issue was around Mysql, the Mysql user we were using was deleted since it was under an old domain - 96873_edieltest - (edieltest.org).

It is working now, but we should setup a new mysql directly under the Ediel.org domain and move the tables/data from the old DB over.

The item was postponed.

Continued action:
- Teemu will see if he can setup a new mysql directly under the Ediel.org domain and move the tables/data from the old DB over.

9   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.

9.1   *How to handle the new strategic action: "Establish new ECP requirements"?*

From the NMEG roadmap:
    NMEG will establish new ECP requirements to be sure that ECP will be compliant with the future TSO needs.

It is NEX responsibility to do the work. NMEG will follow up and supervise.

Action:
- Jon-Egil will follow up on NEX.

9.2   *How to handle the new strategic action: "Establish a secure Nordic Communication platform"?*

From the NMEG roadmap:
    NMEG will together with the Nordic TSOs specify and establish a secure Nordic Communication platform for secure information exchange between the Nordic TSO organisations in case of a major IT incident and/or any secure communication need between the Nordic TSOs.

It is NEX responsibility to do the work. NMEG will follow up and supervise.

Action:
- Jon-Egil will follow up on NEX.

10   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.

Noting new reported. We believe Nordic RCC is busy with its flow-based project.

11   Support to the NBM project

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.

Update proposal from Bent-Atle:

I would suggest removing local /national codes from description, e.g. **called Driftsforstyrrelsesreserve (DFR) in Norway and Störningsreserv in Sweden**

Z74 - Disturbance reserve - Disturbance reserve (called Driftsforstyrrelsesreserve (DFR) in Norway and Störningsreserv in Sweden)
Will become:
Z74 - Disturbance reserve - Disturbance reserve …

The description of the Reason code was updated to:

Z74	Disturbance reserve	A reserve to be used if disturbance occur.
		If the bids on the balancing power market are not sufficient to remedy the disturbance, the TSO can activate the disturbance reserve and brings the system into balance

Action:

- Ove will update and publish the code list.

11.1   CIM master data documents for NBM based on NBS master data documents

Status for circulation of comments to NBM/Fifty/Unicorn for new CIM based master data documents for Portfolio master data document, Resource master data document and Party master data document.

Ove had, based on a request from Bent Atle, updated the CIM master data documents for NBM, incl. xml schemas:

In the NMEG CIM Resource Master Data Document it is added a new Market_Process class with an association from the RegisteredResource class. This will be used to tell for which market(s), such as mFRR, aFRR, …., a resource can be used.

There were no comments to the update.

At our next meeting we will discuss if we can merge the NBM and NBS master data specifications into one NMEG master data BRS.

Continued and new action:

- Jon-Egil will investigate within CIM WG if they have a good place for "ECP endpoint", "EDX service" and "Allowed email domains: string"
- Jan (SE) will investigate within WG16 if they have a good place for "ECP endpoint", "EDX service" and "Allowed email domains: string"
- Ove will make the association from Aggregated_RegisteredResource to RegisteredResource red and stereotyped "new".

11.2   Status for new document for FCR (Reserve) Bid Document

- It is proposed using the Standard_MarketProduct for "Dynamic" and "Static" bids.
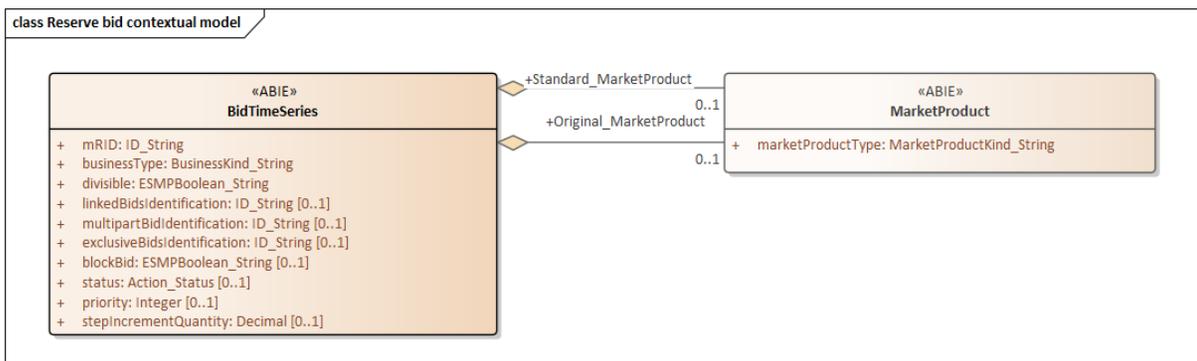
  - o The Standard_MarketProduct is also added to the Balancing document under IEC62325-451-6 Ed.2.1.
  - o Two new Nordic Market Product types have been added to the NMEG code list:
    - **Z02**   Dynamic FCR-D product
    - **Z03**   Static FCR-D product
  - o Shall we add it to the Trade BRS?
    Conclusion 20230830:
    - Postponed until verified and agreed by the NBM project.
- Shall we add the Balancing Document to the Trade BRS?
  Conclusion 20230830:
  - o Postponed until verified and agreed by the NBM project.

Action:

- Ove will add the **Z02** and **Z03** codes to the FCR (Reserve) Bid Document in the Trade BRS. Only used together with process type **A52.**

- Ove will add the Balancing Document to the Trade BRS, including the **Z02** and **Z03** codes (see https://www.svk.se/contentassets/fee36080901440cfa591191784c6f60e/implementation-guide--fcr-capacity-market---bsp---se.pdf) and (https://www.ediel.se/Portal/Document/3277)

12 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 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	***20220907:*** • Forwarded by Ove to Jon-Egil for submission to CIM WG ***20221006:*** • Ongoing ***20221031:*** • The MR is awaiting approval in the ENTSO-E ESMP SG before it is sent to CIM EG, hence it will probably still take a few weeks before it is handled ***20230124:*** • Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal. • To be continued ***20230222:*** • Ongoing ***20230411, 20230830, 20231101 and 20231205:*** • Ongoing
NMEG 2023/210 (CIM WG)	Extended FinancialSettlementReport (FSKAR) (addition of a Price class).	***20231101:*** • ***Rejected:*** Since the FSKAR was made for central Europe. • ***Action:*** Jon-Egil will discuss with Alvaro and FSKAR colleagues from central Europe to see if they see a problem in the extension.
NMEG 2023/211 (CIM WG)	Addition of quality flag in Point class in Reserve Bid Market Document	***20231204:*** • Forwarded by Ove to Jon-Egil for submission to CIM WG

Ove had as homework drafted the MR "NMEG 2023/211", for addition of a quality flag in the Point class in the Reserve Bid Market Document based on input from Jon-Egil.

13 How to handle rejected code requests from MR NMEG 2023/208

The item was postponed.

14 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.

Background: Svenska kraftnät is using an older I® based xml document towards two TSOs and plan using a newer I® and CIM based document towards a third TSO. The codes used for the two older xml exchanges are I® 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: Making an NMEG BRS for TSO-TSO settlement, describing common exchanges of settlement information between the Nordic TSOs, instead of having bilateral agreements.

Since eSett is using the ENTSO-E ESP Energy Account Report message (EAR), a namespaced version of EAR version 1.2, it would be relevant to get input from eSett regarding their possible updates and change to CIM.

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".

At this meeting we will review the draft NMEG BRS for TSO-TSO settlement.

Discussion topic from Bent Atle:

- I am missing the actual settlement process in the TSO-TSO BRS, i.e. how to use the data that is exchanged to the counterpart?

  Conclusion:

    o Will be a main item at our next meeting in January in Sundbyberg

- Should we replace the ERRP Reserve allocation result document with the ESS Schedule market document?
  From Bent Atle:

  Within NBM we exchange the Planned Flow Agreed Supportive Power TSO (using Schedule Market Document) between the Nordic countries. In the NMEG TSO-TSO Settlement BRS we use:

1.5	Agreed supportive power	ERRP Reserve allocation result document based on IEC62325-351, see chapter 4.3

  In the ERRP Reserve allocation result document, it is not possible to see who ordered the ASP (agreed supportive power), we have predicted that from for example HVDC. It indicates who is in trouble...

  In today's mFRR EAM we use Schedule market document for Planned Flow ASP, it is implemented by HVDC. That means we must build a converter again.

  Are these data exchanges something that is in use today?

  I have to say I like the use Schedule market document - the idea is to also link activations to this. Then it can internally follow existing logic.

  + that when we have flow direction - using negative values is not optimal.

Henrik asked why we are using the FSKAR document and not the EAR. The EAR is used in other similar Danish exchanges to countries like the Netherlands. The answer is that the EAR is more limited and that the FSKAR documents are newer and meant for this purpose.

Conclusion:

- o For the time being we will not add the ESS Schedule Market Document. However, we will continue the discussion at our next NMEG meeting in Sundbyberg.

Discussion topic from Jan (SE):

- Is it possible to send all exchanges between TSOs in one settlement report?

  In the BRS document, the ASP (Agreed Supportive Power) was listed in a separate report. This has been discussed in a Swedish meeting where it was agreed that they would like to have everything in one and the same settlement report.

  Jan (SE) thinks there are advantages to having a separate message, but he hasn't had time to look at this in detail yet.

  Conclusion:

  - o The issue was postponed to our next NMEG meeting in Sundbyberg.

Action:

- All are asked to investigate if we should add the ESS Schedule Market Document to the TSO-TSO settlement BRS, among others used for mFRR EAM by NBM.

14.2   Update of NBS BRS with the option of sending negative losses

Status for update of NBS BRS, "5.2 NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption":

a) Shall we remove the note saying that quantity can be negative for Business Type **A07**:
   Note:
   - o Business type "**A07** Net production/ consumption" ***uses signed values, i.e. will be negative when pumping.***

It was proposed to remove the note. However a similar note is connected to **A12** and in addition Jan (SE) has informed that there can be negative values after Sweden went from hourly values to 15 minutes values. Hence, we will have a discussion at our next NMEG if we should open for negative values in more places.

Action:

- Ove will ask Tuomas for eSett point of view related to negative values in general and especially for **A07**, **A12** and as result of going from hourly values to 15 minutes values.

14.3   Update requests to NBS BRS documents

Ove had as action updated the NBS BRS, NBS BRS for TSO-MO, NBS master data BRS and the related xml schemas. The documents have been on circulation for comments to NMEG for one week, i.e. until December 4th. There are no comments. The following updates were done:

1) NBS BRS Draft for v2r3A 20231124.docx

   - Replaced Process Type "**Z05** Bilateral Trade" with "**A59** Internal trade reporting" in ENTSO-E ESS Schedule Document and ENTSO-E ESS Confirmation Report.
   - Added the following Asset Type codes to NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – production:

     - **A05** Load (replaces **Z07**)
     - **B18** Wind offshore
     - **B19** Wind onshore (replaces **Z05**)
     - **B25** Energy storage
     - **B31** Hydro unspecified (replaces **Z06**)
     - **B37** Thermal unspecified (replaces **Z04**)

   - Added the Asset Type attribute to NEG (ebIX® based) Aggregated Data per MGA (E31, E44) – consumption, including the following asset type code:

     - **B25** Energy storage.

   - Added a comment that the losses can be negative for Business type "**A15** Losses".
   - Replaced the term "Market Balance Area" with "Bidding Zone".

2) NBS UserGuide Draft for 2r3A - 20231124.docx

   - The same updates as for the NBS BRS above.

3) NBS BRS for TSO-MO draft for v3r0A - 20231124.docx

   - Addition of the Process type code "**A59,** Internal trade reporting" to ENTSO-E ESS Schedule Document.

     The code will be valid one year after eSett have announcement its removal, approximately until the end of 2024. In the transition period eSett will continue using **Z05.**

4) NBS BRS for Master Data draft for v2r3A - 20231124.docx

   - Addition of Asset Type codes to Ediel (NEG) Resource (Production Unit and Generator Group Relations) Master Data Document:

     - **A05** Load (replaces **Z07**)
     - **B18** Wind offshore
     - **B19** Wind onshore (replaces **Z05**)
     - **B25** Energy storage
     - **B31** Hydro unspecified (replaces **Z06**)
     - **B37** Thermal unspecified (replaces **Z04**)

   - Addition of an Asset Type attribute and Asset Type code to the NEG Party Master Data Document:

     - **B25** Energy storage

5) NBS UserGuide Master Data - Draft for v2r3A - 20231124.docx

   - The same updates as for the NBS BRS above.

6) NBS ebIX XML 20231113.zip

7) ENTSO-E based Ediel documents NBS 20231113.zip

One remining question:

- Shall we change the ProcessType in the two updated master data documents from "**Z07** Master data" to "**A55** Exchange of master data"?

    Response from Tuomas:

    - We need a bit more time to analyse the impacts that this would cause, but it's probably ok.

Action:

- Ove will publish the NBS BRS documents.

14.4 Status for new Nordic extended Schedule Outage Market Document

The item was postponed.

14.5 Update of NMEG code list

See item 11 above.

14.6 Ediel ERRP Reserve Allocation Result Document in NBS BRS for TSO-MO

At a previous NMEG meeting, the following codes was added to the Ediel ERRP Reserve Allocation Result Document in the NBS BRS for TSO-MO and to the code list:

Z77	aFRR AOF activation	Automatic Frequency Restoration Reserve (aFRR) activation with Activation Optimisation Function (AOF)
Z78	aFRR non-AOF activation	Automatic Frequency Restoration Reserve (aFRR) activation without Activation Optimisation Function (AOF)

However, related dependency matrix in chapter 5.3.3 is not updated.

The dependency matrix in chapter 5.3.3 was updated.

Action:

- Ove will verify with Tuomas if the update of the dependency table related to Reason codes **Z77** and **Z78** in the Ediel ERRP Reserve Allocation Result Document in NBS BRS for TSO-MO is OK before publication.

15 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) hasn't any news, but he informed about an industry recommendation regarding activation of assets at customers: https://www.energiforetagen.se/4a9818/globalassets/dokument/elnat/industry-recommendation-conditional-grid-connections-ver-1.0.pdf.

16   Common European Area project

Background: ebIX® has proposed a project plan for a common European Area project. ebIX®, 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.

No news – postponed.

17   XML schemas

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

18   NMEG Technical Committee (NTC)

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) 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 Bent Atle, Christian, Henrik, Jan (DK), Jan (SE), Teemu and Ove.

References (links):
What to decide,
discuss or inform: Status for looking into making CIM based document to replace the ebIX® XML documents used towards eSett today.

18.1 CIM for NBS

The NMEG CIM-XML Subgroup has made a proposal for how to migrate from old ebIX® documents to CIM documents for the NBS ebIX® based documents.

Interim conclusions (to be discussed in NMEG):

- Validated data for settlement for Aggregator:
    - The best alternative seems to be basing the document on the NBM Measurement Data Market Document. However this is a Nordic document, and it may require some efforts to get it approved by ENTSO-E.
    - The second-best alternative seems to be sending a set of MRs for update of the RGCE Measurement value document.

- Aggregated data per MGA:
    - It doesn't seem to be any existing CIM documents that fits the need; hence we will probably have to make our own Nordic CIM document.

- Aggregated data per neighbouring grid
    - Of the existing ENTSO-E alternatives, the FSKAR document seems to be closest to the NBS need.
    - Suggest discussing in NEMG if should continue with the Nordic document made for the Danish DataHub or try to update the FSKAR document.

- Confirmation of aggregated data per neighbouring grid
    - The confirmation of aggregated data per neighbouring grid document has exactly the same attributes and associations as the Aggregated data per neighbouring grid, hence we should use the same document, possibly with a different document type.

From first brief discussion in NMEG February 23rd:
- We should avoid using the RGCE document, since this is a specific RGCE document.
- For Aggregated MGA data, we should investigate the EAR document.

Conclusion:

- The item will be a prioritised item at our next meeting in Sundbyberg.

18.2 CIM for Elhub

Can we start a NTC project that looks at mapping of the "Elhub Information Model" (EIM) to CIM, as well as harmonisation with what has been done related to the Danish DataHub.

Mario suggested that we start with mapping of EIM to CIM.

We will start Monday December 18th, 10:00 – 12:00.

19   Addition of an "archive folder" at Ediel.org

Postponed.

Continued 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.

20   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.

20.1   Prepare Nordic positions before coming CIM WG meetings

Postponed.

21   Information (if any)

As information we may note the Nordic mFRR EAM market that will be in operation December 3rd 2024, see https://nordicbalancingmodel.net/nordic-mfrr-energy-activation-market-entry-into-operation-on-3-december-2024/.

22   Next meetings

NMEG:
- Tuesday January 9th and Wednesday January 10th at Svenska kraftnäts offices in Sundbyberg (Stockholm)
- Monday February 5th, 10:00 – 15:00, GoToMeeting
- Wednesday February 28th and Thursday February 29th at Fingrid's offices in Helsinki

NMEG CIM XML subgroup:
- Monday December 18th, 10:00 – 12:00.

23   AOB

No item.

Appendix A   Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anders (SE)	CGMES, ESMP
Anne Stine	NMEG, ebIX®
Christian	NMEG, ebIX® observer (?)
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (DK)	NMEG, IEC/WG16
Jan (SE)	NMEG, HG, ebIX®, IEC/WG16+14, ESMP, TFD, TK57
Jon-Egil	NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NEK, TPC, TFD
Martin (SE)	CCC
Miika	CIM WG, NEX
Moustafa (SE)	CGMES
Oscar	CIO/LIO, ebIX®, CIM WG, TK57
Ove	NMEG, HG, ebIX®, IEC/WG16, NEK
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)
NEK	Norsk Elektroteknisk Komite
NEX	Nordic ECP/EDX Group
TFD	ENTSO-E Task Force Data Interoperability and Access,
TK57	Teknisk Kommitté 57
TPC	Transparency Platform Coordinators (subgroup under MIT)

Appendix B   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[1]	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

[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 | | | | | | **5.0** (not complete) |
| 26. | Capacity Market Document | ???? | | | | | | **7.1, 8.0** |