

Minutes: NMEG meeting Date: Monday and Tuesday October 29 th and 30 th Time: 09:30 –17:00 (18:00?) and 9:00 – 16:00 Place: Nordic RSC offices in Copenhagen November 29 th , 2018	<div>NMEG</div> <div>Nordic Market Expert Group</div>
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Present: Anne Stine, NO (first day via GoToMeeting)
Christian, DK
Fedder, DK
Jan, SE
Jon-Egil, NO (Convenor)
Ove, NO (Secretary)
Teemu, FI

To: Anne Stine, NO
Christian, DK
Fedder, DK
Jan, SE
Jari, FI
Jon-Egil, NO (Convenor)
Ove, NO (Secretary)
Teemu, FI

CC: Hans Erik, NO
Minna, FI

Appendix A: “To remember list”

Appendix B: Addition of description of Nordic codes in urn-entsoe-eu-local-extension-types.xsd

Appendix C: Codes to be updated in BRSs or are candidates for MRs

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:

- «Snabb aktiv störningsreserv», see item 20.1 under AOB
- Do we need to resolve any matters from the MNA Technical TF?, see item 20.2 under AOB
- Aggregated settled wind production from eSett, see item 20.3 under AOB

2 Approval of previous meeting minutes

The minutes from previous meeting were approved after correction of a spelling error.

3 Status for a common meeting with NEAT

Background: NIT is taking over as “home” for NMEG from MSC and consequently we should have a common meeting, e.g. half day (same time and place) with NEAT (Nordic Enterprise Architecture Team) to see how we can cooperate.

Action(s): Jon-Egil will try to find a time for a common meeting with NEAT.

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

References (links): None.

The first half hour of the meeting (09:00 – 09:30) were dedicated to a Skype meeting with NEAT. The intention with the meeting was to review the document “NMEG recommendation for asynchronous communications (OMS 20181027)”, which should be forwarded to NIT latest on Thursday October 31st.

After the Skype meeting, NMEG continued the review of the document and another Skype meeting were held Tuesday afternoon. Finally, it was agreed to have a last review during a Skype meeting Thursday afternoon, before the document is forwarded to NIT.

The action on trying to find a common meeting with NEAT will be continued.

4 Making a common Nordic downstream market BRS based on CIM, for exchange of metered data – Main item for the first day

Background: The topic was initiated at the NMEG meeting March 2018. A possible Nordic downstream market BRS is dependent on active involvement and ownership from the hubs.
We will start the work on making a common Nordic downstream market BRS based on CIM, by making a common CIM based document for exchange of metered data:

- a) We will give priority to metered data for Metering Points and thereafter looking into aggregated data.
- b) We will as basis use the current class diagrams from the Nordic data hubs and NBS.

Action(s): None.

What to decided, discuss or inform: We will start the work on making a common Nordic downstream market BRS based on CIM, by making a common CIM based document for exchange of metered data:

- c) We will give priority to metered data for Metering Points and thereafter looking into aggregated data.
- d) We will as basis use the current class diagrams from the Nordic data hubs and NBS.

References (links): Minutes from NMEG meeting March 7th, 2018 (see [Statnett eRoom](#) – 02 Meetings).

It was started on the creation of the CIM document “Validated data for billing”, based on the proposal from the ebIX® and IEC Technical Report (TR) findings.

Action:

- Ove will finalise the “Validated data for billing” document and make a list over issues, such as how to model “Type of Metering point” - to be continued at our next meeting.

5 High-level road map for NMEG

Background: The topic was initiated at the NMEG meeting March 2018. Ove has made a draft roadmap, but finalisation is postponed until the ToR of NMEG has been approved by NIT, see item 3.

Action(s): None.

What to decided,

discuss or inform: Finalise the high-level roadmap.

References (links): 1) The draft roadmap (see [Statnett eRoom](#) – 03 Documents for exchange).
2) Minutes from NMEG meeting March 7th, 2018 (see [Statnett eRoom](#) – 02 Meetings).

Action:

- Ove will clean up the document and send it to Jon-Egil, who will forward it too NEAT and thereafter to NIT.

6 Status for new host for www.ediel.org

Background: Currently Energinet is hosting www.ediel.org, but Energinet would like to find another home for the web site. Conclusions from previous meeting:

- We go for Webhuset, where Edisys has good experience.
- We “Hire a Nerd” for a few hours to set up the first draft.
- We create the mail-address secretary@ediel.org.
- We keep the two latest versions of the IGs and add a note that secretary@ediel.org Ove can be contacted for later versions.

Action(s): Ove will continue making the first draft for QA within the end of October and do the actual move before the end of the year.

What to decided,

discuss or inform: Status for new host for www.ediel.org.

References (links): None.

The tasks needed to move www.ediel.org to Webhuset has been agreed:

- 1) We have choosen webhotel package «Startup»:
 - ✓ 500 GB storage
 - ✓ Full DNS-control
 - ✓ Free SSL/TLS-certificate
 - ✓ Unlimited number of databases
 - ✓ Telephone support
 - ✓ LiveChat support
 - ✓ E-mail support
 - ✓ Daily backup
 - ✓ Windows/Linux
 - ✓ FTP
 - ✓ ASP, PHP, CGI
 - ✓ SSH access
 - ✓ phpMyAdmin
- 2) Webhuset will move the current www.ediel.org to a test site;
- 3) Thereafter we will have a test period before the actual move of www.ediel.org from Energinet;
- 4) After the move we create an email address secretary@ediel.org.

Action:

- Ove will continue with the move and try to finalise the actual move before the end of the year.

7 Status for NBS BRS for Master Data

Background: The NBS BRS for master data was published June 6th, however with a comment “**Note:** It is under discussion if the inbound (to eSett) Regulation Object Data-flow should contain the full set of Resource Objects or only those that have been created, updated, or deactivated. If the latter option is chosen, a Status element (**A14** Creation, **A15** Update, **A16** Deactivation) will be added”.

Action(s): Jon-Egil will check the status with eSett, i.e. investigate how to handle *the inbound (to eSett) Regulation Object Data-flow*.

What to decided, discuss or inform: Status for the new (updated) NBS documents.

References (links):

Action:

- Jon-Egil will follow up the handling of *the inbound (to eSett) Regulation Object Data-flow*.

8 BRS for Nordic Operational System

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

Action(s): Ove will update the BRS.

What to decided, discuss or inform: Verify that the update of the BRSs is OK and publish it at www.ediel.org.

References (links): The draft BRS is published at [Statnett eRoom](#).

Ove had as action from previous meeting updated the BRS, among others:

- Added Price Report to the MOL Responsible in the sequence diagram in chapter 2.3 (new arrow 29);
- Added MOL Responsible to the UseCase diagram and the activity diagram in chapter 3.2;
- Corrected the class diagram and the attribute table for the Balancing Market Document (CIM version).

However, there were several questions left that was reviewed during the meeting. The review will continue at the next meeting.

Information from after the meeting: Jari informed that Fingrid is testing the activation document with three parties.

Actions:

- All are asked to check if the sequence diagram in chapter 2.3 is correct, with a special focus on Activate and Report.
- All to verify if an activation price is sent or if it only is the Imbalance price that is sent in the Balancing Market Document in chapter 5.1.2.3.

9 BRS for schedules

Background: The latest version of the BRS for Schedules was published in February 2014. Since then the scheduling processes has changed and NMEG is working on updating the document.

Action(s):

- 1) Jan and Fedder will check the dependency matrix for ESS schedule document and ESS confirmation report, chapter 7.1 and 7.3.
- 2) Fedder, Jan and Jari will verify if “**A09** Finalised” is (will be) used for the ERRP Planned Resource Schedule Document from BRP to SO, or if it is only “**A14** Resource Provider Resource Schedule (Operational schedule)” that will be used (as in Norway), ref. chapter 7.4 in the Schedule BRS;
SvK and Fingrid will be using A14. Energinet is pending.
- 3) Everyone should verify and possibly update the “Used in” column in chapter 7.4.3;
- 4) Jari will find Finnish usages of Business types in chapter 7.4.4;
- 5) Everyone should verify and possibly update the “dependency matrix” in chapter 7.4.5.

What to decided, discuss or inform: Review of chapter 7 and the rest of the BRS.

References (links): The draft BRS can be downloaded from [NMEG working documents](#).

Conclusion:

- The item was postponed and will be reopened when we start a project together with NBM (Nordic Balancing Model).

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

Background: NMEG is responsible for a set of BRSs that are published at www.ediel.org and Jan have some proposal for updates of the NBS BRSs.

Action(s): None.

What to decided, discuss or inform: Verify that all BRSs are up to date and if not, update it (or them).

References (links): None.

Conclusion:

- There are no other BRSs that needs to be updated.

11 XML schemas

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

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

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

References (links): The NMEG set of schemas are shown in Appendix D.

Conclusion:

- The item was postponed and will be reopened when we start a project together with NBM (Nordic Balancing Model).

11.1 Request from Jan regarding documentation of codes in urn-entsoe-eu-local-extension-types.xsd

Background: Jan is missing description of codes in the file urn-entsoe-eu-local-extension-types.xsd, published at www.ediel.org.

Action(s): Since it not is allowed to use Using `xsd:annotation` is not allowed, Fedder and all are asked to investigate if there is a better solution than using text.

What to decided, discuss or inform: Decide if the description should be added.

References (links): See request in Appendix B.

Action:

- Fedder and Jon-Egil will bring up the question if there is a way of using `xsd:annotation` in the urn-entsoe-eu-local-extension-types.xsd, in the new ENTSO-E CIM Expert Group (CIM-EG).

12 Common file sharing area for NMEG

Background: Hans Erik has asked if we can get a common file area for the NMEG work, like NRMG/NCEG have had. Hans Erik's experience is that this makes distribution of documents easier, incl. overview and history.

Action(s): Jon-Egil will verify if we can use the Statnett e-room.

What to decided, discuss or inform: Status for a common file sharing area for NMEG.

References (links): None.

Jon-Egil has created a NMEG eRoom at Statnett, but before we can start using it, all users must sign a non-disclosure agreement, i.e. scan it and send it to Jon-Egil. Unfortunately, the excerpt from the regulations is only in Norwegian, since there doesn't exist an official English version, but if needed Jon-Egil will provide some guidance.

Information form after the meeting:

- The Statnett eRoom/NMEG is up and running.
- The item is closed.

13 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 WG-EDI.

Codes that are candidates for update or MRs, se Appendix C.

Action(s): None.

What to decided, discuss or inform: Status for the MRs sent to WG-EDI.

References (links): The MRs can be downloaded from [NMEG working documents](#).

Due to lack of time the item was postponed.

14 Status for MRs for new codes related to the Balancing document

Background: The Nordic aFRR project needs addition of some new codes, i.e.:

Business type codes:

	Name	Description
Z70	Market price and total volume	A time series concerning market price and total volume
Z71	Import price	A time series concerning import price (the volume-weighted price average of all accepted bids)
Z72	Capacity allocated (excluding price)	The business being described concerns capacity allocation without price information (ref ENTSO-E code B05, which is with price).

Document Type Codes:

Z33	Market result document	Published prices and volumes
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Action(s): Ove will make MRs for the new proposed codes.

What to decided, discuss or inform: Status for the MRs sent to WG-EDI.

References (links): The MRs can be downloaded from [NMEG working documents](#).

Since the next WG-EDI meeting is 4th of December 2018, Ove had not given the MRs priority. Action continued.

15 NMEG “Position paper” regarding MADES recommendation

Background: Several Nordic TSOs are establishing ECP/EDX networks on the Internet for communication towards the actors. This is directly supporting the expectations from the Nordic Balancing Model and (and partly) the MNA project.

However, few are thinking formal thoughts on how these networks should be organised and this is a strategic decision that is difficult to change after implementation. Hence, NMEG will come up with a “Position paper” with our recommendation before the already started projects have come too far with the implementation. If possible, the project will be coordinated with NEAT.

Action(s): Fedder will make a first draft, together with Ove Morten from Statnett.

What to decided, discuss or inform: Status for NMEG “Position paper” regarding MADES recommendation.

References (links): None.

See item 3 above. Item closed.

16 Codes for FCR-N or FCR-D

- Background:** There is a need for new Business type codes related to FCR-N or FCR-D.
- New Business Types (Z03 and Z06) were added to the Ediel ERRP Reserve Allocation Result Document in the NBS TSO/MO BRS at the September NMEG meeting 2018.
 - We propose using the different Resource Objects for production and consumption. The alternative is using Reason codes for this, but this is seen as “less correct solution”.

Action(s): Jan will ask Svenska kraftnät to verify the new proposal with eSett.

What to decided, discuss or inform: Status for proposal regarding new codes for FCR-N or FCR-D.

References (links): None.

The BRS has been published – item closed.

17 Review of Appendix A, “To remember list”

The only item in the “To remember list” will be opened when looking at CIM Master Data for NBS.

18 Information (if any)

Jon-Egil informed that there probably will be a common project together with NBM (Nordic Balancing Model).

19 Next meetings

- MNA Technical TF (incl. NMEG), weekly telephone conference, Friday 13:00 – 14:00;
- MNA Technical TF (incl. NMEG), one-day workshop, Friday November 9th, 9:00 – 17:00, at Nordic RSC offices in Copenhagen;
- NMEG, GoToMeeting, Thursday November 29th, 2018, 09:00 – 11:00;
- NMEG meeting, Stockholm, Tuesday January 8th and Wednesday January 9th, 2019, starting 09:00 the first day and ending 16:00 the second day;
- NMEG meeting, Oslo, Thursday March 21st and Friday March 22nd, 2019, starting 09:00 the first day and ending 16:00 the second day.

20 AOB

20.1 «Snabb aktiv störningsreserv»

Fifty MMS (SvK) needs a new Business Type "Snabb aktiv störningsreserv", translated to *Tertiary Disturbance Reserve*.

The next free Business Type code is **Z73**. The code will be reserved in the Nordic code list. The NBM project will handle the market, i.e. if we shall update any BRSs.

Further, Sweden needs a new code for the Functional area in the EDIFACT QUOTES IG: “D, Tertiary Disturbance Reserves”

Action:

- Ove will add “D, Tertiary Disturbance Reserves” to the EDIFACT QUOTES IG, send it on circulation for comments for 14 days to NMEG and thereafter publish it.
- Ove will reserve Business Type code is **Z73** for the *Tertiary Disturbance Reserve*.
- Jan will find a definition of the code **Z73**.

20.2 Do we need to resolve any matters from the MNA Technical TF?

The “MNA sorting service sequence diagram” was reviewed and found OK.

The run of the market will be proposed sent in the marketAgreement.mRID in the Schedule and Confirmation report documents.

20.3 Aggregated settled wind production from eSett

Svenska kraftnät would like to get aggregated settled wind production from eSett in a standardised format. The Ediel ECAN Publication Document was proposed as specified below:

Attribute usage: Ediel ECAN Publication Document for wind production

Ediel ECAN Publication Document Attribute	Cl.	Content	Descriptions and comments
Allocation Result Document	[1]		
Document Identification	[1]	Document ID	Unique identification of the document
Document Version	[1]	“1”	Fixed 1
Document Type	[1]	A75	A75 Actual generation per type
Process Type	[1]	A05	A05 Metered data aggregation
Sender Identification	[1]	ISR ID	Identification of the Imbalance Settlement Responsible who is sending the document
Sender role	[1]	A05	A05 Imbalance Settlement Responsible
Receiver Identification	[1]	SO ID	Identification of the System Operator, who is receiving the document
Receiver role	[1]	A04	A04 System Operator
Creation Date Time	[1]	Creation date/time	The date and time that the message was prepared for transmission by the application of the sender.
Publication Time Interval	[1]	Start and end date of the time series	The beginning and ending date and time of the period covered by the document.
Domain	[1]	National Market Area ID	Identification of the national area
Publication Time Series	[1..*]		
Time Series Identification	[1]	Time series ID	Unique identification of the Time Series (unique over time for the sender in question)
Business Type	[1]	Business Type	A93 Wind generation
In Area	[1]	MGA ID	Relevant Metering Grid Area (MGA) for the market

Ediel ECAN Publication Document Attribute	Cl.	Content	Descriptions and comments
Out Area	[1]	MGA ID	Same as In Area for all Business Types
Measurement Unit Quantity	[1]	MWH	MWH MWh
Period	[1..*]		
Time Interval	[1]	Start and end date time	The start and end date and time of the time interval of the period in question.
Resolution	[1]	Resolution	<p>The resolution is expressed in compliance with ISO 8601 in the following format:</p> <p>PnYnMnDTnHnMnS.</p> <p>Where nY expresses a number of years, nM a number of months, nD a number of days.</p> <p>The letter “T” separates the date expression from the time expression and after it nH identifies a number of hours, nM a number of minutes and nS a number of seconds.</p> <p>In NBS hourly resolution is used, i.e. PT1H or PT60M</p>
Interval	[1..*]		
Pos	[1]	Position	Position
Qty	[1]	Quantity	Quantity

Table 1: Attribute usage: Ediel ECAN Publication Document

20.4 Common Nordic datahub or a common interface between the hubs?

Action:

- All to check if there are any initiatives towards a common Nordic datahub or a common interface between the hubs.
- The action will be followed up under item “18, Information (if any)” at the next meeting.

Appendix A “To remember list”

Item #	Item	Description	Status
1.	EMFIP Configuration Market Document	Within EMFIP there is a document called Configuration Market Document. NTC don't think that the document can be used for any master data, outside of the transparency platform, in the foreseeable future. However, the topic should be kept in mind and we might get questions why we didn't use it. At a later stage, NEG might do some work to influence the European standards.	TBD

Appendix B Addition of description of Nordic codes in urn-entsoe-eu-local-extension-types.xsd

From Jan:

At www.ediel.org we have some Nordic codes in the file urn-entsoe-eu-local-extension-types.xsd

However, looking into the one published under <https://www.ediel.org/Sider/NEGCommonDocuments.aspx>, I don't find descriptions of the codes.

If our Nordic code is not expected to be replaced by a common code (i.e. no change request has been sent in, or has been rejected), I would like to see a documentation of the code in the urn-entsoe-eu-local-extension-types.xsd

I can find the descriptions in the file <https://www.ediel.org/SiteAssets/Sider/NEGCommonDocuments/NEG%20Code%20List%20Library%201r4A%2020170419.pdf>

But some time in the future I would also suggest that the urn-entsoe-eu-local-extension-types.xsd-file includes the descriptions.

However it is not urgent, and can wait until more codes are approved and not needed as "local extensions".

From Ove:

Using `xsd:annotation` is not allowed, hence Ove proposed to use text, e.g.:

```
<xsd:simpleType name="LocalMessageType">
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:enumeration value="A01"/>
    <xsd:enumeration value="Z15"/>
    <!-- Code Name: DATCR activation, move (change) of planned
    production -->
    <!-- Code Description: A document indication a move or change of
    planned production in a Directly Activated Tertiary Control
    Reserve (DATCR) process. -->
  </xsd:restriction>
</xsd:simpleType>
```

Appendix C Codes to be updated in BRSs or are candidates for MRs

- BRS for Master Data:
 - “**Z05** Trader” is used in the Role Code. We have asked for a new Role Code for Trader in the MR NEMM 2013/113B – What is the status?
Status:
 - *We await the ENTSO-E work on network codes*
 - “**Z01** Station Group” is used in the Object Aggregation code. Should we make a MR for it?
Status:
 - *A06 Resource Object should be used instead*
 - **Z04** (Thermal), **Z05** (Wind), **Z06** (Hydro), **Z07** (Consumption) us used in the Asset Type code. Should we make MRs for them?
Status:
 - *New asset types have been issued – item closed*
 - BRS for Schedules
 - The following “Business Type codes” are used:
 - Z17** Technical minimum
 - Z18** Technical maximum
 - Z38** Hydro production
 - Z39** Nuclear production
 - Z40** Thermal production
 - Z41** Wind production
 - Z42** Decentralised production
 - Z43** Gas turbine and diesel production
 - Z44** Other thermal productionShould we make MRs for them?
Conclusion:
 -
 - The following “Business Type codes” are used:
 - Z02** Frequency bias (Nordic code)
 - Z03** Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
 - Z06** Frequency Containment Reserves, Disturbance (FCR-D earlier FDR) (Nordic code)Should we change one of them to “**A95** Frequency containment reserve” or Should we make MRs?
Conclusion:
 -**Action:**
 -
- NBS BRS:
 - “**Z05** Bilateral Trade” is used in the Process Type Code (ESS). Should we make a MR?
Action:
 -

- *“Z64 Internal trade difference, within a Market balance area, i.e. the difference between trades reported from an out party (seller) and an in party (buyer). The internal trade difference is the delta value between what is reported by the two Balance Responsible Parties”* is used in the Business Type Code. We have asked for a new Business Type Code in the MR NTC 2014/126 – What is the status?
Status:
 -
- NBS BRS for TSO-MO:
 - *“Z05 Bilateral Trade”* is used in the Process Type Code (ESS). Should we make a MR?
Action:
 - See NBS BRS above
 - *“Z52 Bilateral Trade”* is used in the Business Type Code (ESS). Should we make a MR?
Action:
 -
 - The following “Reason codes” are used:
 - Z22** Supportive power
 - Z26** Transit triangle
 - Z27** Transit redispatch
 - Z28** Transit SB Loop Long
 - Z29** FCR (Frequency Containment Reserve (FCR) is an automatic and momentarily regulation, to adjust the physical balance in the power system)
 - Z30** FRR-A (Frequency Restoration Reserve - Automatic (FRR-A) is an automatic reserve, activated continuously by the frequency)
 - Z31** FRR-M, Balancing Power (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Balancing Power)
 - Z34** FRR-M, Quarter regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Quarter regulation when TSO need transfer of production (usually start 15 min earlier))
 - Z35** FRR-M, Special Regulation (Frequency Restoration Reserve - Manual activated reserves (FRR-M), Special Regulation where regulation does not affect the regulation price)
 - Z36** Hour Change Regulation (to reduce problems encountered at the turn of the hour in the Nordic countries or in Finland, Fingrid reserves the right to transfer the planned changes to begin 15 minutes before or after the planned moment)
 - Z37** Power Transaction (Fixed price transaction used for specific purposes outside of ordinary regulation)
 - Z38** TSO Internal Countertrades (The time series concern TSO Internal Countertrades)
 - Z39** Day Ahead Production Adjustment (Energy (production) moved from one hour to another to avoid major changes between hours)

Should we make MRs?

Conclusion:

▪

Action:

▪

- BRS for Trade:

- “Z05 Trader” is used in the Role Code. We have asked for a new Role Code for Trader in the MR NEMM 2013/113B – What is the status?

Status:

- See BRS for Master Data above
- The following “Bid Type codes” are used:

Z01 Hourly bid
Z02 Block bid
Z03 Flexible hourly bid
Z04 Profile block bid

Conclusion:

- We keep it as is?
- The following “Document Type codes” are used:
Z03 Auction specification document
Z05 Area specification document
Z06 Market connection points document
Z17 Spot Market Bid Status Report

Conclusion:

- We keep it as is?
- The following “Process Type codes” are used:
Z01 Frequency activated reserves market
Z02 FRR-A market
Z03 Balance regulation market
Z04 Reserve option market
Z05 Bilateral trade

Conclusion:

- Should we change “Z02 FRR-A market” to “A51 Automatic frequency restoration reserve”? What with the rest?
- “Z01 Busbar” is used in the Component Type Code (type: Asset type code). However, there is “A08 Busbar” available in the ENTSO-E code list.

Action:

- We update the BRS? **Do we publish it?**
- “Z02 Split busbar” is used in the Component Type Code (type: Asset type code).

Conclusion:

- Do we keep it as is or do we make a MR?
- The following “Business Type codes” are used:
Z02 Frequency bias (Nordic code)
Z03 Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
Z06 Frequency Containment Reserves, Disturbance (FCR-D earlier FDR) (Nordic code)

Conclusion:

- See BRS for Schedules above
- The following “Business Type codes” are used:
Z35 Commercial
Z36 Reserve
Z50 Commercial wind production
Z51 Commercial consumption

Action:

- Should we make MRs?

- The following “Price Category codes” are used:

Z01 Buying
Z02 Selling
Z03 Average

Conclusion:

- Should we Change “**Z03** Average” with “**A06** Average Bid Price”? What with the rest?

Action:

▪

- “**Z18** Preliminary currency exchange rate. Nordic code.” Is used as “Business Type codes”.

Conclusion:

▪

Action:

- We change it to “**B17** Price based on preliminary exchange rate”?

- The following “Business Type codes” are used:

Z03 Frequency Containment Reserves, Normal (**FCR-N** earlier **FNR**) (Nordic code)
Z06 Frequency Containment Reserves, Disturbance (**FCR-D** earlier **FDR**) (Nordic code)

Conclusion:

- See BRS for Schedules above.

- “**Z32** System price (including volume) (Nordic code)The following” is used as “Business Type codes” .

Conclusion:

- Could it be changed to “**A87** Balancing energy price”?

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

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

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.

