Minutes: NMEG meeting **Date:** Tuesday September 11th **Time:** 09:00 –16:0 **Place:** Helsinki September 19th, 2018	**NMEG** Nordic Market Expert Group

To (NMEG):   Christian, DK
Fedder, DK
Jan, SE
Jari, FI
Jon-Egil, NO (Convenor)
Minna, FI
Ove, NO (Secretary)

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

Appendix A: "To remember list"
Appendix B: Addition of description of Nordic codes in urn-entsoe-eu-local-extension-types.xsd
Appendix C: Costs for web hotel
Appendix D: Codes to be updated in BRSs or are candidates for MRs
Appendix E: 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:
- Question from the ebIX®, EFET and ENTSO-E Harmonisation Group, see item 18.1 under AOB.
- Extension of Balancing document, see item 18.2 under AOB.
- NMEG "Position paper" regarding MADES recommendation, see item 18.3 under AOB.
- Codes for FCR-N or FCR-D, see item 18.5 under AOB.

2 Approval of previous meeting minutes

The minutes from previous meeting were approved without comments.

3 Status for approval of ToR from NIT and 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):

What to decided,
discuss or inform: Status for approval of ToR from NIT and common meeting with NEAT.

References (links):   None.

Jon-Egil reported that NIT has agreed to the ToR.

Action:

- Jon-Egil will try to find a time for a common meeting with NEAT.

4   How to make a "Nordic CIM model" when "NMEG Harmonised data hub pilot project" is closed?

Background: The topic was initiated at the NMEG meeting March 2018. The item is postponed until the ToR of NMEG has been approved by NIT, see item 3. Some notes:
- A possible Nordic downstream market BRS is dependent on active involvement and ownership from the hubs.
- The item includes follow-up of the NMEG memo arguing for addition the Metered Data Administrator (MDA) to the Harmonised Role Model (HRM) from ebIX®, EFET and ENTSO-E.
- The item also includes establishment of a mini project for the initiated Nordic Hub Forum, to come up with a complete list of harmonised error codes, that may improve an efficient operation of BRSs.
  - Background: NMEG has compared Business Reason Codes and Error Codes used in the Nordic countries. The comparison of the usage of different code lists between the Nordic countries may at a later stage be a useful input to a Nordic harmonisation process. However, the conclusion is that neither the Business Reason codes, nor the error codes are easy to harmonise.

Action(s):   None.

What to decided, discuss or inform:
1) Status for response from the Nordic hubs regarding addition of MDA to the HRM.
2) Discuss a possible start on a Nordic downstream market BRS based on CIM.

References (links):   Minutes from NMEG meeting March 7th, 2018 (see NMEG working documents).

The status for response from the Nordic hubs regarding addition of MDA to the HRM was closed, since the topic will be a part of the new ebIX® Role-to-role project.

Conclusion:

- 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:
  - We will give priority to metered data for Metering Points and thereafter looking into aggregated data.
  - We will as basis use the current class diagrams from the Nordic data hubs and NBS.
- We will reserve one day of the next NMEG meeting for making the first draft.

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 NMEG working documents).
	2) Minutes from NMEG meeting March 7th, 2018 (see NMEG working documents).

The item was postponed.

6 What to do with www.ediel.org?

Background:	Currently Energinet is hosting www.ediel.org, but Energinet would like to find another home for the web site.
Action(s):	Ove will investigate what the cost would be if Edisys take over the maintenance of www.ediel.org. At least three offers from hosts are needed.
What to decided, discuss or inform:	Where to find a home for www.ediel.org?
References (links):	None.

Ove had investigated what the cost may be if Edisys takes over the maintenance of www.ediel.org:, see Appendix C.

Conclusions:

- 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:

- Ove will try making the first draft for QA within the end of October and do 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):	eSett will 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):	

We are awaiting a response from eSett; hence the item was postponed.

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):
1) Ove will publish the BRS for Nordic Operational System with the CIM based Activation Document added before the NMEG meeting May 2018.
2) Ove will publish the Activation Document (xsd) and an Ediel version of the urn-entsoe-eu-local-extension-types.xsd, with addition of Document Type **Z15**.
3) For next meeting, Ove will add the CIM document from [Balancing Publication Implementation Guide](#) in the BRS for Nordic Operational System.
4) Ove will make a MR for a new Business Type "**Z69** Metered frequency" and addition of Measure Type **HTZ (Hz)** to the ENTSO-E code list, in due time before next WG-EDI meeting, June 18th.

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 [NMEG working documents](#).

Ove had as homework from previous meeting added the CIM Balancing Market Document to the Nordic Operate BRS. Ove had noted that there are several versions of the CIM Balancing Market Document Implementation Guide and related XSDs. It was agreed to use the latest one (iec62325-451-6-balancing-4-0.xsd from 2018-03-30). The related class diagram is found in the EA folder "IEC62325-451-6 Balancing ED2.1".

Action:

- Ove will update the BRS.

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](#).

Due to lack of time, the item was postponed.

10 New Business Types for sending and receiving end flow

Background:	Statnett needs Business Types for sending and receiving end flow from Nord Pool for NordLink, to be able to support implicit loss in the same way as for NorNed. There are ENTSO-E codes for sending and receiving capacity, but not similar for flow. Today Statnett uses **A06** (External trade without explicit capacity) for receiving end flow between TenneT and Statnett.
	For NordLink the codes are needed when integration with Nord Pool is set up.
	Note: Implicit loss is planned for Skagerak already from next summer. Planning starts in the autumn and format and codes to use for this process will be needed then.
Action(s):	None
What to decided, discuss or inform:	Agree which Business Codes (new or existing) to use.
References (links):	None

 B18 and B19 are used today, while Xxx and Yxx are missing:

Business Type	Title	Description
B18	In-feed ATC	Available Transfer Capacity at the in-feed side of a DC tieline.
B19	Out-feed ATC	Available Transfer Capacity at the out-feed side of a DC tieline.
Xxx	In-feed flow	External trade at the in-feed side of a DC tieline.
Yxx	Out-feed flow	External trade at the out-feed side of a DC tieline.

The following Business Type codes was proposed:

B67	DC flow with losses	DC flow with losses refers to the values at the importing end of the DC line.
B68	DC flow without losses	DC flow without losses refers to the values at the exporting end of the DC line.

Conclusion:

- **B67** is proposed used as "Out-feed flow", while **B68** is proposed used for "In-feed flow".

11 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):   See www.ediel.org.

There are no known issues with the BRSs not mentioned earlier in these minutes.

12 XML schemas

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

A request from Jan is shown in

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 E.

Due to lack of time, the item was postponed.

12.1 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):   None.

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

References (links):   See request in Appendix B.

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>
```

Action:

- Fedder and all are asked to investigate if there is a better solution than using text.

13 Common file sharing area for NMEG

Background: Hans Erik has asked if we can get a common file area for the NMEG work, similar to what 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.

Status:

- Jon-Egil informed that he is investigating if Statnett eRoom can be used.

14 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. In addition, two new MRs were sent to WG-EDI after the previous meeting.
Action(s):	Ove will check if any BRSs need to be updated.
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](#).

Ove had as action item gone through the Ediel BRSs and found several codes that may be updated or are candidates for MRs, se Appendix D.

Due to lack of time, the item was postponed.

15 Review of Appendix A, "To remember list"

Due to lack of time, the item was postponed.

16 Information (if any)

Due to lack of time, the item was postponed.

17 Next meetings

- NMEG: Recommendations for Nordic MADES implementations, GoToMeeting, Friday October 21st, 2018, 12:00 – 14:00 (CET).
- MCA Technical TF (incl. NMEG), weekly telephone conference, 13:00 – 14:00 (CET) – starting Friday October 21th 2018.
- NMEG meeting, Nordic RSC-offices in Copenhagen, Monday October 29th (starting 09:30 (CET)) – Tuesday October 30th (ending 16:00 (CET)).
- NMEG, GoToMeeting, Thursday November 29th 09:00 – 11:00 (CET).
- NMEG meeting, Stockholm, Tuesday January 8th, 2019 (starting 09:00 (CET)) – Wednesday January 9th, 2019 (ending 16:00 (CET)).
- NMEG meeting, Oslo, Thursday March 21st, 2019 (starting 09:00 (CET)) – Friday March 22nd, 2019 (ending 16:00 (CET)).

18 AOB

18.1   Question from the ebIX®, EFET and ENTSO-E Harmonisation Group

According to the [Electricity Balancing Guideline](#) the Imbalance price is set by the Transmission System Operator (the party?). But, which role is setting the Imbalance Price: the role LFC Operator, the role TSO or another role?

And, who is setting the Reconciliation price, is it the Market Coupling Operator (MCO) that is responsible for setting the Reconciliation Price?

All are asked to check which role that is setting the Imbalance Price and the Reconciliation Price.

Conclusion:

- In the Nordic countries it is the party TSO, acting as the Market Operator for the Balance Regulation Market, that sets the Imbalance Price.

- In the Nordic countries it is the Market Coupling Operator, acting in the role of Market Operator that is calculating the Reconciliation Price.

18.2   Extension of Balancing document

The Nordic aFRR project needs addition of some new codes. The following codes have been added to the Nordic Code List Library:

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

Jon-Egil had distributed a draft version of the Implementation Guide for the aFRR capacity marked, witch was reviewed. Comments will be forwarded to Statnett.

Action:

- Ove will make MRs for the new proposed codes.

18.3   NMEG "Position paper" regarding MADES recommendation

From Fedder:

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, I do no see that anyone are thinking formal thoughts on how these networks should be organised. This is a strategic decision that is difficult to change after implementation.

I think it would be good if NMEG could come up with a "Position paper" with our recommendation before the already started project have come too far with the implementation.

It might be good to coordinate this with NEAT.

Conclusion:

- Fedder will make a first draft, together with Ove Morten from Statnett.
- There will be arranged a GoToMeeting (NMEG: Recommendations for Nordic MADES implementations) Friday September 21st from 12:00 to 14:00 were both NMEG and NEAT will be invited.

Action:

- Fedder will make a first draft, together with Ove Morten from Statnett.

18.4   Status MNA/NMEG cooperation

There was a common MNA/NMEG workshop in Copenhagen August 24th (NMA = "Multiple NEMOs Arrangemen"). Minutes from the meeting have already been distributed to the NMEG member.

The main outcome of the meeting, seen from a NMEG view is that it seems that the MNA project will go for using MADES (ECP) instead of sFTP.

The process will continue through regular calls in the MNA Technical TF, where NMEG is invited to participate. The first call is planned September 20th from 08:30 to 09:30 CET.

The item is closed.

18.5   Codes for FCR-N or FCR-D

From Jan:

Dear all, I would like to add an item regarding having two codes instead of one for FCR.

Currently we have the code Z29 telling it is "FCR".

But from Sweden we need to specify if it is FCR-N or FCR-D.

FCR information will be sent from (Swedish) Fifty to eSett.

FCR kan förekomma på produktion men också på förbrukning.

Hur vet man vad det är? Knyts det till reglerobjektet?

Eller framgår "produktion" eller "förbrukning" i meddelandet?

Antagande: Detta är knutet till reglerobjektet.

Idag finns (för BusinessType = A11 = Primary Control)

ReasonCode Z29 = FCR

Men Svenska kraftnät kommer rapportera FCR uppdelat på FCR-D och FCR-N till eSett.

För FCR-D rapporteras bara MWh (inget på fakturan). Men volymen används av eSett för att korrigera förbrukningsbalanskraften.

För FCR-N skickas både volym och belopp, och därmed blir det en post på fakturan.

Dagens FCR-kod (Z29) kan kanske användas för FCR-N?

Tre varianter finns:

Ta bort den befintliga koden (Z29) och ersätt med två nya för FCR-N och FCR-D? [Probably not since the code Z29 is in use]

Eller: Ha kvar koden Z29 för FCR och lägga till två nya för FCR-N och FCR-D?

Eller: Ha kvar koden Z29, använda den för FCR-N och lägg till en ny kod för FCR-D? [Perhaps not since other countries are not separating between FCR-N and FCR-D]

Fifty behöver koderna på torsdag den 13 september.

Conclusion:

- New Business Types (Z03 and Z06) were added to the Ediel ERRP Reserve Allocation Result Document in the NBS TSO/MO BRS.
- 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:

- Jan will ask Svenska kraftnät to verify the new proposal with eSett.

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".

Appendix C   Costs for web hotel

	Webhuset	Domeneshop	One.com
Start costs			• Moving domain (.org) NOK 180,00. Discount - Moving domain (.org), NOK -80,00. • Establishment fee NOK 100,00. • Hosting Starter (25 GB) - 12 måneder NOK 204,00.
Rental cost per month (NOK)	69,00		NOK 17,00
First year price		NOK 420,00	NOK 404,00 (ex. vat.)
Services included	• 100 GB storage • Gratis SSL/TLS-certificate • Unlimited number of data bases • Full DNS-control • Daily backup • Windows/Linux • FTP • ASP, PHP, CGI • SSH-Access • MySQL/SQL Server • phpMyAdmin • Support on telephone, live chat and e-mail	• Hosting with "web hotel medium". • Registrar service for domain name. • Page Builder and Wordpress can be used for free.	• 25 GB storage • 512 MB RAM • 1 x CPU • 1 web-site • 1 database • SSL-certificate • PHP- & FTP/SFTP-access • Unlimited speed • Unlimited number of e-mail addresses
Support, such as help with moving www.ediel.org	«LEN» (Lei en nerd): NOK 1.900,- (ex. vat), for up to 2 hours (minimum price) and thereafter NOK 1.200,- per hour (ex. vat).	Domeneshop will help us with moving the domain. Except for this, Domeneshop has no support/help to the maintenance of the web site itself.	The One.com technician thinks the web site can be moved without any problems. However, One.com cannot do this for us, but One.com's technical support will help us with advise for free. There is no cost for contacting their chat https://www.one.com/chat or e-mail support@dk.one.com.
HTML SW	Wordpress included	Page Builder and/or Wordpress can be used for free.	

Comments	Edisys experience is that Webhuset is more expensive than Domeneshop, but has better support.	Edisys experience is that Domeneshop is cheaper than Webhuset, but doesn't have as good support.	

Appendix D 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 production

    Should 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:
    -

- o "**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:
  - o "**Z05** Bilateral Trade" is used in the Process Type Code (ESS). Should we make a MR?
    Action:
    - ▪ See NBS BRS above
  - o "**Z52** Bilateral Trade" is used in the Business Type Code (ESS). Should we make a MR?
    Action:
    - ▪
  - o 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 regelation 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:

- o "**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
- o 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?
- o 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?
- o 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?
- o "**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?
- o "**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?
- o 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
- o 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 E   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.