

Minutes: NEG Technical Committee Date: Wednesday March 29 th 2017 Time: 09:00 –16:00 Place: Kastrup (Denmark) April 27 th , 2017	 Nordic Ediel Group
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- Present:** Fedder Skovgaard, Energinet.dk
Jan Owe, Svenska kraftnät
Jan Rönnback, Nord Pool (GoToMeeting from 14:00 – 15:00)
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Mats Elmér, Svenska kraftnät
Ove Nesvik, Edisys (Secretary)
- To (NTC):** Christian Odgaard, Energinet.dk
Fedder Skovgaard, Energinet.dk
Jan Owe, Svenska kraftnät
Jari Hirvonen, Fingrid
Jon-Egil Nordvik, Statnett (Convenor)
Kim Dahl, Statnett
Minna Arffman, Fingrid
Ole Fredsø Weigelt, Energinet.dk
Ove Nesvik, Edisys (Secretary)
- (NBS):** Mats Elmér, Svenska kraftnät
Minnakaisa Ahonen, eSett
Morten Hilger, Energinet.dk
Morten Torgalsbøen, Statnett
Niko Jauhiainen, eSett
Pasi Lintunen, Fingrid
Tuomas Lahti, eSett
- CC:** Anne Stine Hop, Statnett
Oscar Ludwigs, Svenska kraftnät
Tor Bjarne Heiberg, Statnett
- Appendixes:** [Appendix A](#) “To remember list”
Error! Reference source not found. Error! Reference source not found.
[Appendix B](#) Proposal for new layout of “NEG Common Documents” at www.ediel.org
[Appendix C](#) Overview of the usage of xml-schemas in the Nordic countries
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Memo Update of
NBS Master Data Do see item 8, NBS BRS for Master Data (med Unicorn kommentarer)
- Attachment:** None

--- Combined NBS and Ordinary NTC---

1 Approval of agenda

The agenda was approved with the following additions:

- Comments from Nord Pool to NBS BRS for TSO/MO communication, see item 7.2
- Sending negative values in ESS, see item 7.3

- Status attribute in NEG Party Master Data document and NEG Resource Object Master Data document, see item 8.2
- NEG Resource Object (Production Unit) Master Data Document, see item 8.3
- **Error! Reference source not found.**, see item **Error! Reference source not found.**

2 Approval of previous meeting minutes

The minutes from previous meeting was approved with update of some spelling errors and links.

3 Resolve matters arisen after joint RMG and NEG meeting

From NEG meeting February 16th:

From autumn 2017 it is expected to be more than one NEMO in the Nordic market, i.e. not only Nord Pool. As a preparation for the new situation, NTC has renamed Nord Pool (and NPS) to Market Operator (MO) in all BRSs, User Guides etc. Similarly, Elspot has been renamed Day-ahead and Elbas has been renamed Intraday.

MSG should send a letter (mail) to Nord Pool, formally informing Nord Pool that they no longer can be member of NEG and NTC. Thereafter Minna, as convener of NEG, will inform Tor Åge and Jon-Egil, as convener of NTC, will inform the NPS members of NTC.

Action:

- Minna will ask the Finnish MSG member to make sure that MSG informs NPS that they no longer can be members of NEG and NTC;
- When NPS have been formally informed by MSG, Minna, as convener of NEG, will inform Tor Åge and Jon-Egil, as convener of NTC, will inform the NPS members of NTC.

Ove informed that all BRSs, User Guides, etc. have been updated, except for old BRSs that are under discussion (Determine Transfer Capacity and BRS for Schedules); Nord Pool Spot (NPS) has been renamed Market Operator, Elspot has been renamed Day-ahead and Elbas has been renamed Intraday.

The NTC member list was reviewed and Nord Pool participants will be removed from the mailing lists.

It was decided that the eSett logo should be on the NBS related BRSs (Settlement, TSO/MO and Master Data) and related UserGuides.

Action:

- Ove will remove Nord Pool participants from the NTC mailing lists

4 Status for update of NEG BRSs, UserGuides etc.

Ove had as action from previous meeting updated all NEG BRSs, UserGuides etc., except for the old BRSs for Determine Transfer Capacity and Schedules, with:

- Updated logos on the front page
- Replaced Nord Pool and NPS with Market Operator
- Replaced Elspot with Day-ahead
- Replaced Elbas with Intraday
- Updated NTC and NEG member list
- Rename Svenska Kraftnät to Svenska kraftnät
- Rename the NPS set of XML schemas; “NEG Schemas for ~~Nord Pool Spot~~ 20161121.zip” to “NEG Schemas for **Market Operator** 20161121.zip

We keep the older documents, such as Nordic TSO Determine Transfer Capacity BRS and Nordic TSO Schedules BRS as is until new versions are ready for publication.

5 Status: Generic Format

The formats (Generic- and Specific Format) specifications are still not available, hence the item was postponed.

Continued action from previous meeting:

- Mats will provide Ove with a link to the Generic- Specific Format specifications;
- Ove will publish the link to these documents at www.ediel.org when available.

6 NBS BRS (and related UserGuide) – if any issues

No issues for the time being.

7 NBS BRS for TSO/MO communication – if any issues

7.1 Deletion of regulations (to remember item)

- Mats will verify with Unicorn how to handle deletion of regulations (verify **red text** below), before Ove add the following text and publishes the document (the issue will probably not be given priority in the first version of Basse):

Business rules:

- *All valid regulations for a period and Process Type (primary, secondary or tertiary regulations) must be sent in one document.*
- *If updates are sent, all valid regulations for the relevant period must be sent in the update-document (i.e. all still valid time series from the predecessor). An update-document shall always cover the same period as its predecessor. The latest received message will always replace the previous one. **All regulations not part of the latest update-document shall be deleted.***

Mats informed that a change request is sent to Unicorn and that the functionality may be implemented in August. The item was postponed.

7.2 Comments from Nord Pool to NBS BRS for TSO/MO communication

Ove had as action from previous meeting updated the BRS, sent it on circulation for comments to NEG and published it, i.e.:

- Removed arrow 6 and 7, kept arrow 9 and 10 with a comment “only used in Sweden”;
- Renamed Svenska Kraftnät to Svenska kraftnät, throughout the BRS;

Nord Pool (Jan Rönnback) had sent in the following comments:

- Page 13, chapter 2.3, Figure 4
 - Arrow 7 still exists indicating that DA and ID trades would be sent from the MO to SO, this seems to be incorrect and not in line with what is agreed within the eSett context. Nord Pool expects that BRP-RE level positions to be sent to eSett only
 - Arrow 5 and 4, Nord Pool understands that there is no general Nordic requirement for Nord Pool to send results to BRPs or traders. This is a bi-lateral question specified in agreements between Nord Pool and its customers.

- These should either
 - Be removed
 - Marked as optional
 - Page 27, chapter 4.4, Figure 11
 - Nord Pool's understanding is that reporting in Sweden also shall be from MO directly to ISR and not via SO
 - Page 28, 4.4, Figure 13
 - Nord Pool's understanding is that reporting in Sweden also shall be from BRP directly to ISR and not via SO

Conclusion:

- Page 13, chapter 2.3, Figure 4
 - Arrow 15, 16 and 17 is valid in Sweden until August this year. Not used in Norway or Finland. Ove will add a comment in the sequence diagram.
 - Arrow 7, 8 and 9 will be removed, since this are documented in BRS for Schedules
 - Mats/Jan will contact Jan Rönback regarding verification of arrow 10
 - Arrow 4 and 5 will be removed, since it is documented in BRS for Trade
- Page 27, chapter 4.4, Figure 11
 - Flow [In Sweden] will be removed
- Page 28, 4.4, Figure 13
 - Flow [Only in Sweden] will be removed

Action:

- Mats/Jan will verify the need for arrow 10 in figure 4 in the BRS for NBS
- Ove will update the BRS after the validity of "arrow" 10 is verified and send it on circulation for comments to NEG and thereafter publish it.

7.3 Sending negative values in ESS

The question regards pumping and if pumping should be negative production or consumption. The pumping is currently only specified in the NBS BRS, in the "NEG (eBIX® based) Aggregated Data per MGA (E31, E44)", using the following Business Type codes:

A04 Consumption (general consumption)

A07 Net production/consumption ("Pumped storage (from combined generator/pump) (only in Norway)")

B27 Pumped (only in Norway)

However, it was also discussed if it should be possible to send net production using the Business Type codes "**A07**" also for "arrow 23; Binding production plans" in the ENTSO-E ERRP Planned Resource Schedule. An alternative to send netted values is sending the metered data as two time-series, one with "**A01** Production" and one with "**A04** Consumption" (or "**B27** Pumped").

The ENTSO-E definition of Business Type "**A07** Net production/consumption":

"Net production/ consumption - where signed values will be used. With the following rules: In area=Out area, In party=Out party, + means production and - means consumption".

Information from after the meeting from Mats:

- The DSOs in Norway will never send negative values in "NEG (eBIX® based) Aggregated Data per MGA (E31, E44)". Pumping will be sent as positive values with either Business Type **A07** or **B29**, while Production will be sent with Business Type **A01**, both for Pumps and Pumped Storage.

- The TSOs must be able to send negative production in the ENTSO-E ERRP Planned Resource Schedule and this must be handled by eSett.

Conclusions:

- eSett must accept negative production in the ENTSO-E ERRP Planned Resource Schedule.

8 NBS BRS for Master Data

8.1 Validity Start and End related to Subject Party in the NEG Resource Object Master Data Document

Mats had as action from previous meeting to investigate the following possibilities and need with Unicorn and come back to the item: “A DSO might want to register a Resource Object without a Subject Party (to be added later). A proposal is to make the Party Detail class optional and repeatable [0..*]. Repeatable because then it is possible to change Related Party – Send Validity End Date and Time for the current party and Validity Start Date and Time for the new party”.

The topic has been discussed by mail since previous meeting and it is agreed not to use the Validity Start and End in the Party Detail class, hence no changes will be done.

8.2 Status attribute in NEG Party Master Data document and NEG Resource Object Master Data document

The topic has been discussed by mail since previous meeting and the rules for usage of Status has been agreed and updated in the BRS.

8.3 NEG Resource Object (Production Unit) Master Data Document

When to use or not use the Party Detail class has been discussed by mail since previous meeting and business rules have been added to the BRS.

The changes to “NEG Resource Object (Production Unit) Master Data Document” does not apply to “NEG Resource Object (Generator Group – Generator Relations) Master Data Document”. The latter document is currently not used, i.e. too early.

9 BRS for Nordic Trading System – if any issues

Ove had as action from previous meeting updated the BRS, sent it on circulation for comments to NEG and published it February 13th.

Energinet.dk had asked for addition of a Price Category to the NEG ERRP Reserve Allocation Result Document, which has been added to the schema, BRS for Trade and NEG Code list document. The latter with the following codes:

	Name	Description
Z01	Buying	The price for buying commodities in the market.
Z02	Selling	The price for selling commodities in the market.
Z03	Average	Average, i.e. the average price in the market.

Action:

- Ove will send the BRS to NEG for two weeks of commenting before publication at www.ediel.org.

10 BRS for Nordic Operational System – if any issues

From Energinet.dk:

For "Reserve Allocation Result Document" are the following Process Types available:

- Z01: Frequency activated reserves market (<-- skulle dette ikke være A28?)
- Z02: FRR-A market (<-- skulle dette ikke være A29?)
- Z03: Balance regulation market (<-- skulle dette ikke være A30?)
- Z04: Reserve option market
- Z05: Bilateral trade

Response from Jon-Egil:

It is correct as Kenneth points out that the Z-codes in practice, for our current purpose, are the same, so they should be the same in all the documents.

But the problem is that the A28-A30 codes are now obsolete, since the ENTSOE definitions have changed and we have started using FCR, FRR-A etc.

WG-EDI has awaited the final formal definitions from ENTSOE, and now they are available, so WG-EDI will start up the work to incorporate the new definitions in the standards.

So hopefully we will get new official codes before summer.

The item was postponed until new codes agreed within ENTSO-E

11 XML schemas

11.1 NEG set of schemas

Ove had as action from previous meeting made a proposal for a new layout of the Common Documents at www.ediel.org, see Appendix B. The proposal was slightly modified and agreed.

The NEG set of schemas are shown in Appendix C.

Actions (including continued actions):

- Anti will verify if all three sets of NBS xml schemas are needed at www.ediel.org.
- Anti/Eveliina will verify if we can replace the current "auctionspecificationdocument" with the latest version, in the NPS set of XML schemas. The changes are:
 - Update (correction) of urn-ediel-org-neg-masterdata-auctionspecificationdocument-1-1.xsd, where the text "document" is added to the namespace "auctionspecificationdocument" and "Capacity is removed from the root element "CapacityAuctionSpecificationDocument".
- 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 published at www.ediel.org.
- Ove will update www.ediel.org, according to proposal.

12 Status for NPS implementation of NEG Documents – if any issues

Nothing reported

13 Addition of Metered Data Administrator to the Harmonised Role Model

The item was postponed.

Continued from previous meeting:

- Jan, Jari, Jon-Egil and Ole are asked to forward the memo to their respective datahubs, asking for support to forward the MR to the HG.

14 BRS for schedules

Ove had as action from previous meeting suggested update of the dependency matrix for ESS schedule document and ESS confirmation report where the codes used in the ESS confirmation report is based on the codes used in the ESS schedule document.

The review of chapter 7 and the rest of the BRS was postponed due to lack of time. The draft BRS can be downloaded from:

<https://www.dropbox.com/sh/hrp2wn85e98mwb3/AADsJkoqijyvORu2CQm75q7a?dl=0>

Continued action from previous meeting:

- Jan will check the dependency matrix for ESS schedule document and ESS confirmation report.

15 Status for MRs to ENTSO-E

The ENTSO-E/WG-EDI work Shop related to ERRP (ancillary services), that will deal with not yet dealt with NEG MRs, started up in the beginning of March. The MRs are in progress.

16 Status for responses to the memo “Request to implement MADES SOAP header”

The response is that “it is a good idea, but not now” – The item is closed.

17 Status www.ediel.org

See above.

18 Review of Appendix A, “To remember list”

No actions taken.

19 Information (if any)

Jon-Egil informed:

- Unavailable Market Information message is sent from NPS to EMFIP today. Since we get several NEMOs in the Nordic market, a quotation for taking the responsibility of sending the UMI is in progress.
- Statnett has a project for considering MADES as a common exchange standard for Norway. In the first phase not including Elhub.

20 Next meeting

June 1st 2017 in Stockholm (Arlanda?)

21 AOB

No items.

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 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
2.	Balancing Publication Implementation Guide	To be looked into	TBD
3.	Sending report from all reserves markets in one document	If sending all reserves markets in one ENTSO-E ERRP IG the Process Type A27 is a good alternative: A27 Reserve resource process (The process being described is for general reserve resources.	

Appendix B Proposal for new layout of “NEG Common Documents” at www.ediel.org

NEG Common Documents







This page contain common Nordic documents related to data exchange in the Nordic energy market, such as Business Requirements Specifications (BRS) and XML schemas. The documents are mainly based on international standards from [ebIX®](#), [ENTSO-E](#) and [IEC](#).

There is strategic decision from the Nordic TSOs to migrate to CIM XML and NEG will provide CIM XML schemas when needed. Examples of mapping from ENTSO-E XML schemas to IEC/CIM XML schemas can be downloaded below:

 [Mapping from ENTSO-E to CIM v1r1B 20170213.pdf](#)

The original ENTSO-E XML documents used in the Nordic market, such as the ENTSO-E Acknowledgment document, can be found at the ENTSO-E web site: [ENTSO-E Electronic Data Interchange \(EDI\) Library](#).

[Possible future updates of NBS XML schemas 20161027.pdf](#).

Type	Downloads
Business Requirements Specifications (BRS)	 Nordic Trading System BRS 1r5A - 20170213.pdf
	 Nordic Operate BRS 1r1B - 20170213.pdf
	 Nordic Scheduling and Ancillary Services Process BRS, version 2.1A
	 Nordic Determine Transfer Capacity BRS, version 2.0E.pdf
	 Nordic TSO Domain model 1r0A - 20100215.doc¹
User Guides	 NEG UserGuide Acknowledgement v1r3A 20170213.pdf
XML schemas	 ENTSO-E based NEG documents for TSO 20170112.zip²
	 NEG Schemas for Market Operator 20161121.zip
	 NEG Schemas for Market Operator 20160826.zip
	 NEG Schemas for Market Operator 20160630.zip
Common documents	 NEG Common XML rules and recommendations 1r5B 20170213.pdf
	 NEG Code List Library 1r3H 20170213.pdf

¹ Currently not published – Should probably be updated and republished (?)

² Rename to “Complete set of NEG XML schemas 2017mmdd”:

- Update “core” with the latest ENTSO-E code list.
- One zip file with two main structures; one for ebIX® based schemas and the second for ENTSO-E and ENTSO-E based NEG schemas.
- The [Primary Reserves Market Trade Schemas 20140109](#) will be added, hence NOT renamed to “TSO-TSO FCR schemas 20140109”.

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

XML schema	BRS	Version used by		
		NBS	NPS	TSO
NEG ECAN publication document	<ul style="list-style-type: none"> NBS BRS for NPS-TSO 	1.0	1.0	
NEG ERRP Reserve Allocation Result Document	<ul style="list-style-type: none"> NBS BRS for NPS-TSO BRS for Trade 	1.0		1.0
NEG ESP Energy Account Report Document	<ul style="list-style-type: none"> NBS BRS 	1.0		
NEG Area Specification Document	<ul style="list-style-type: none"> NBS BRS for Master Data BRS for Trade 	1.0 ³	1.0	
NEG Bilateral Trade Structure Document	<ul style="list-style-type: none"> NBS BRS for Master Data 	1.0		
NEG Party Master Data Document	<ul style="list-style-type: none"> NBS BRS for Master Data 	1.0		
NEG Resource Object Master Data Document	<ul style="list-style-type: none"> NBS BRS for Master Data 	1.1		
ENTSO-E Acknowledgement Document	<ul style="list-style-type: none"> NEG Common XML rules and recommendations 	6.0	6.0	
ENTSO-E ERRP Planned Resource Schedule Document	<ul style="list-style-type: none"> NBS BRS for NPS-TSO 	5.0		
NEG ERRP Planned Resource Schedule Document	<ul style="list-style-type: none"> BRS for Schedules 			1.0
ENTSO-E ERRP Resource Schedule Confirmation Report	<ul style="list-style-type: none"> BRS for Schedules 	No NEG version		
ENTSO-E ESS Confirmation Report	<ul style="list-style-type: none"> NBS BRS 	4.1		
ENTSO-E ESS Schedule Document	<ul style="list-style-type: none"> NBS BRS NBS BRS for NPS-TSO 	4.1	4.1	
ENTSO-E ESS Anomaly Report	<ul style="list-style-type: none"> BRS for Schedules 	No NEG version		
ebIX® Aggregated Data per MGA for Settlement for Settlement Responsible	<ul style="list-style-type: none"> NBS BRS 	2013pA		
ebIX® Aggregated Data per Neighbouring Grid for Settlement for Settlement Responsible	<ul style="list-style-type: none"> NBS BRS 	2013pA		
ebIX® NEG Confirmation of Aggregated Data per Neighbouring Grid for ISR	<ul style="list-style-type: none"> NBS BRS 	2013pA		
ebIX® Validated Data for Settlement for Aggregator	<ul style="list-style-type: none"> NBS BRS 	2013pA		
NEG ECAN Allocation Result Document	<ul style="list-style-type: none"> BRS for Trade 		2.0	3.0
NEG Currency Exchange Rate Document	<ul style="list-style-type: none"> BRS for Trade 		1.0	
NEG Auction Specification	<ul style="list-style-type: none"> BRS for Trade 		1.0	
NEG Spot Market Bid Document	<ul style="list-style-type: none"> BRS for Trade 		2.0	
ENTSO-E ERRP Reserve Bid Document	<ul style="list-style-type: none"> BRS for Trade 			5.0
ENTSO-E Outage document	<ul style="list-style-type: none"> BRS for Schedules 	No NEG version		

³ The NBS version 1.0 is using dateTimeType for Validity Start/End (error correction), while the NPS version 1.0 is using dateType. dateTimeType will be used from version 2.0.