

Minutes - Project for Nordic (TSO) Energy Market Model for data exchange (NEMM) Date: Wednesday and Thursday December 8 th and 9 th , 2011 Time: 09:00-17:00 and 9:00 – 15:00 Place: SvK, Sundbyberg January 2 nd , 2011	
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Participants: Antti Niemi, Nord Pool Spot (1st day)
Eveliina Ishii, Nord Pool Spot (1st day)
Jan Owe, SvK
Jari Hirvonen, Fingrid
Jon-Egil Nordvik (Convenor)
Ove Nesvik, EdiSys (Secretary)

To: Participants
Christian Hoang Huy Le, Statnett
Christian Odgaard, Energinet.dk
Hanna Blomfelt, Nord Pool Spot
Jesper Gronlund, Fingrid
Ole Fredsø Weigelt, Energinet.dk
Roar Grindstrand, Statnett

CC: Jan-Olov Lundberg, SvK
Oscar Ludwigs, SvK
Tor Bjarne Heiberg, Statnett
Tor Åge Halvorsen, NordPool

Attachment: None

1 Approval of agenda

The agenda was approved with the following additions:

- Workshop on MADES, see 15.1 under AOB
- Coding Scheme, see 15.2 under AOB

2 Approval of previous meeting minutes

The minutes from previous meeting were approved after correction of some spelling errors.

3 Maintenance requests to ENTSO-E

3.1 Homework from previous meetings:

- Antti will submit a request for EIC code for the Nord Pool spot market area
Status: Postponed
- Jon-Egil will ask Mike for the IG for the settlement process of RGCE, where different tariff types are used.
Status: Jon-Egil has asked Mike, however without any response yet. The homework was postponed.

3.2 Actions from previous meeting:

- Three MRs will be sent by Jon-Egil for the next ENTSO-E meeting in the end of September, i.e. NEMM/2011 86, 92 and 93
Status: Sent to ENTSO-E/WG-EDI and transferred to ERRP.

3.3 New MRs

Two new MRs were reviewed:

NEMM/2011-94: Addition of New Business types:

- **Z35**, Commercial Bid
- **Z36**, Reserve bid

Ove raised the question; how do these fit with the following two *Business types*?

- **Z33**, Day-ahead bids
- **Z34**, Intraday bids

We can have both Day-ahead and intraday Commercial bids and Reserve bids. Day-ahead and intraday are specified at the Business process level. **Z33** and **Z34** will be removed.

NEMM/2011-95: *Business Type Detail* was renamed to *Business Type Characteristics*. Both MRs are used for *ERRP Reserve Bid Document* and *Planned Resource Schedule document* (Not used for ECAN)

Homework:

- Ove will correct the BRSs with the comments above
- Jon-Egil will send the MRs to ETSO-E

4 BRS for Determine Transfer Capacity

The BRS for *Determine Transfer Capacity* was updated according to the comments from Jan in *Appendix A* and the information in *Appendix F Connecting Line in ECAN*.

Homework:

- Ove will publish the BRS for Determine Transfer Capacity on www.ediel.org.

5 BRS for Schedules

The following questions and comments were dealt with:

- Chapter 7.2.1 *Planned resource schedule* was updated.
- Questions from Jan in Appendix B were handled, see *Actions* in Appendix B
- Figure 7; UCTE and Nordel operational schedules differences, was updated
- Chapter 6.1.1 Match schedules (Denmark and Sweden) was updated

Comments from Ole:

3.2.3 Overview of Trading Models (just a comment)

Model 1 – System Operator - Resource Provider, not used in the Nordic area and not further described in this document. This is in fact possible today for the DK1-DE connection, but we're hoping to remove this in the future.

Action: We leave it as it is

Figure 18

In Denmark, the nomination of exchange on the DE border is delivered by TTG and 50HzT. I don't know if this should be expressed in the figure.

Action: The participants at the meeting think that TTG and 50HzT should be regarded as Balance Responsible Parties in this context, i.e. no change.

6.2

The following phrase should be re-phrased:

The Business area Exchange production prognosis occurs only in Denmark. The production prognoses are plans that are not binding for the sender and they are not used directly in settlement and/or operation.

To something like:

The Business area Exchange production prognosis occurs only in Denmark. The production prognoses are plans that are used in the planning phase for purchase of ancillary services (or reserves).

Action: BRS updated according to proposal from ole.

6.3

This is a bit unclear:

Operational schedules can be sent “day-ahead” or intraday. Day-ahead schedules can be sent several weeks before the operational day and be changed up to the cut-off time the day before. Binding Intra-day schedules can be sent up to 45 minutes ahead of operation. In Sweden the schedules may be updated up to and including the operational hour, but these schedules will not be forwarded to the *Imbalance settlement responsible*. The *Operational schedules* contain power values and are sent from the *Balance responsible parties (Production responsible parties)* to the *System operator* for operational purposes. The resolution varies between the Nordic countries, from 5 to 60 minutes.

Do we (including me) mean that operational schedules should be send 45 minutes ahead of operation? If so it doesn't hold for Endk, where operational schedules can be send any time, but values are only accepted forward.

Action: Updated to:

....Binding Intra-day schedules can be sent up to 45 minutes ahead of operation. In Sweden and Denmark the schedules may be sent any time, but values are only accepted forward. If updated later than 45 minutes before operation in Sweden, the schedules will not be forwarded to the Imbalance settlement responsible.....

7.1.2.1 (ScheduleDocument) + 7.1.3 (ConfirmationReport)

Business type (missing): Add A80 Consumption, non-dispatchable (DK).

Action: BRS updated according to proposal from ole

7.2.1.1, table 8 (comment A)

Business Type (missing) in operational schedule - I have just copied the Danish terms:

- Langsom reserve (60 minutter i MW)
- Langsom reserve (90 minutter i MW)

As well as:

- Regulerkraft til opregulering (MW)
- Regulerkraft til nedregulering (MW)

Action: Postponed until next meeting

7.2.1.1, table 8 (comment B)

...and this is new to Endk:

- Reduceret installeret vindeffekt (Could be used A70?)

Action: NEMM thinks that A70 should be used, i.e. no changes done

7.2.1.1, table 8 (comment C)

Z10 is missing for Endk.

Action: BRS updated according to proposal from Ole, i.e. Z10 added.

7.2.1.1, table 8 (comment D)

Is Z11 not equal to A74, and Z07 to A70? (Among others)

Action: Z07 changed to A70. A discussion related to changing Z11 to A74 was postponed.

General (comment A):

It does not make sense to use Product "Active energy" when using a measure of power MW/kW.

Action: Postponed until next meeting

General (comment B):

I don't know if we should update the document with the attributes which are used for communication between Endk and TTG/50HzT?

Action: Postponed until next meeting

Due to unresolved questions and comments (see above) the publication of the updated BRS was postponed.

6 BRS for Nordic trading system

Homework from previous meeting:

- Ove will update the BRS and distribute to NEMM before next meeting.
Status: Done
- Jon-Egil will verify if a transformer station can be used as Border connection type in the Area specification document.
Status: Postponed
- Antti will review the processes and documents relevant for NPS.
Status: Done by Eveliina and continued during review of BRS.

Some questions from Ove:

- a) In general we are using the *ECAN Auction specification document* for all markets, but most of the documents are from the ERRP guide. Should we have specified an *ERRP Auction specification document*?
Action: We continue with the *ECAN Auction specification document* for all purposes. Jon-Egil will raise the question in the ERRP project.
- b) The sequence diagrams, Figure 4 and 5, needs verification
Action: Reviewed and updated.
- c) The *EPD Publication document* and the *ECAN Publication document* are identical except for the *Curve type* added to the *ECAN Publication document*. Do we need both?
Action: We use EPD for all purposes.

Comments from Ole:

- d) 6.5.2 table 10

Business type (missing): Z02 - *Primary reserve (Frequency Bias in DK1)* There are more to come, but the documents are in a draft state, so I have skipped the last part.

Action: Z02, Primary reserve was added

The BRS for the Nordic trading system was reviewed and among others the following items was agreed:

- The *ERRP Reserve allocation result document* will be changed to *ECAN Allocation result document* for the NPS documents. Ove will update.
- The reason code **Z19**, *Preliminary rate of exchange* was added to the *ECAN Allocation result document*, to inform the receiver that a *Preliminary rate of exchange* has been used when calculating the prices. The code is used in weekends and in holidays.
- Bid documents and ECAN Allocation result documents to/from NPS may contain a sender/receiver (not necessarily the owner of the account in question, a subject party who is the owner of the account and the account itself. To handle all needed information a subject party and subject role will be added to the NEMM Spot Bid Document.
- Eveliina will make a proposal for definition of a Portfolio account.
- Ove will compare the sequence diagrams with the activity diagrams and try to add missing arrows.

Homework:

- Eveliina will make a proposal for definition of a Portfolio account.
- Ove will update the document according to the decisions above, including compare the sequence diagrams with the activity diagrams and add missing arrows.

7 BRS for Nordic settlement system (if the processes are available from NBS)

Nothing is available for the moment. Requirements are expected during March 2012. The item will be followed up at next meeting.

8 ENTSO-E ERRP WG status

ENTSO-E/WG-EDI will have a telephone conference December 21st. The members and convenor will probably be agreed at this meeting. The item will be followed up at next meeting.

9 Implementation verification

No projects yet. The item will be followed up at next meeting.

10 Information from "entsoe.net"

No news. The item will be followed up at next meeting.

11 CIM XML

No news. The item will be followed up at next meeting.

12 Meteorological information

There is a section for Meteorological information available at the CIM-UG web site. When changing from the standards used to day (at a national level) the CIM standard should be looked at. NEMM will discuss how to handle Meteorological information when the first Nordic country starts a project.

The item will be followed up at next meeting.

13 Information (if any)

- It was held a NEG meeting September 12th. Ove will distribute the minutes to NEG and NEMM
- The Accounting Point definition is agreed by the ebIX[®], EFET and ENTSO-E Harmonisation group. However, a final approval by ENTSO-E and ebIX[®] is still needed.
- Vlatka Cordes from RWE is elected as new chairman (chairwomen) of ebIX[®].

14 Next meeting

February 2nd and 3rd 2012 in Oslo; Thursday at EdiSys offices and Friday at NPS offices

15 AOB

15.1 Workshop on MADES

Jan informed that the TSOs have received an “Invitation to a workshop on MADES on 16 December, ENTSO-E”.

From the invitation:

“The MADES (Market Data Exchange Standard) initiative specifies a standard for data exchange to reliably and securely exchange documents. Consequently every European market participant (trader, TSOs, DSOs, etc.) could benefit from a single, common, harmonized and secure mechanism for message exchanges with another market participant, i.e. providing thus a “single face to the market”.

No-one from NEMM will participate in the workshop and nothing will be done related to MADES for the time being.

15.2 Coding Scheme

It was noted that the *Coding Scheme* NNN, Nordic Regional coding scheme has been added to the ENTSO-E code lists.

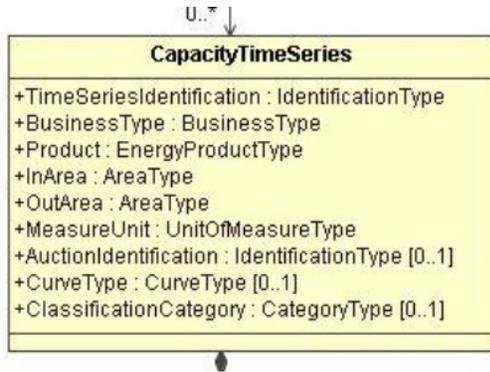
Homework:

- Ove will go through the MRs and assign NNN where applicable. The codes disapproved in ENTSO-E will have a status: Permanent Nordic Code.

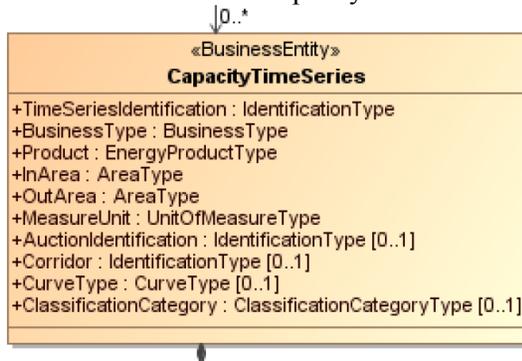
Appendix A UPDATES OF CAPACITY DOCUMENT

From Jan:

I notice that the Capacity Time Series class in the ENTSO-E Capacity Document (ECAN version 5) looks like this:



While our "Determine transfer capacity" class looks like this:



The difference is that our addition of Corridor and that Classification Category in the ENTSO-E document is of type Category Type. The latter should be changed.

In addition we should change the text in chapter 8.1, stating that "*It is a subset of the ENTSO-E ECAN Capacity document without any changes*", since we have added the Corridor.

Appendix B QUESTIONS RELATED TO BRS FOR SCHEDULES

Questions/comments from Jan related to communication of Market Schedules with Poland:

- A) In the BRS for TSO Schedules I notice that we sometimes use the product “Active Energy”, and sometimes the product “Active Power”. But almost every time only the units “MW” or “kW”. Our Polish friends sent us a suggestion where they used “Active Power” and “MW” (code MAW). But in our BRS the most similar document uses “Active Energy”. What is right?

Comment from Energinet.dk:

- ENDK is using "Active Power" as product today.

Action:

- We will always use MWh or kWh together with *Active Energy* and MW or kW together with *Active Power*, i.e. we assume that the measurement unit is correct

- B) I also notice that the only unit in our BRS that is not kW or MW is the unit “E08” = MW/Hz. That might be seen as energy, but the Product is always “Active Power” (however that is probably right, but could be confusing if you use “SI units”).

Comment from Energinet.dk:

- The unit is MW - due its mean power pr. 15 min.

Action:

- This is OK – no change

- C) Another issue that I stumble on is the usage of Object Aggregation. In our Market Schedule description there are one or two companies that are doing business in one or two areas. We have said that Object Aggregation always should be “Party”. And that is logical, when it isn’t the total per area. But in the Polish example I think “Object Aggregation” should be “Area” since, even if the Parties (Polish PX and NPS) also are specified, it is the total schedule between our areas.

Comment from Energinet.dk:

- ObjectAggregation is Party (A03) and Agreement Identification (A04). Because market players can make trades for the DK1-DE border and as fall back also for Kontek.

Action:

- BRS Updated

- D) We have not said anything in chapter 7.1.1.2 or 7.1.1.3 about the usage of the attribute CapacityContractType. Probably we will not use it, then we should (as in 7.1.3.1, 7.1.4.1, 7.2.1.1....) specify “Not used”. However it is used in the Polish example that I received. But I will suggest not using it between us.

Comment from Energinet.dk:

- ENDK use CapacityContractType with "A03 (Monthly), A04 (Yearly), A01 (day ahead), A07 (Intraday)" and "N/A."
- In and out party is equal, due its e.g Elbas which is transferring the energy (/power). But for SO-SO trades, which are also included in the CAS file, they will differ.

- All this does not necessarily make sense for the Kontek connection, but is used for harmonising DK1-DE and Kontek connection link.

Action:

- Capacity contract type was added, including the DK codes used.

*Questions/comments from Jan related to communication of **Operational Schedules** with Poland:*

- E) In the ENTSO-E schema for Planned Resource Schedule (version 4), see for instance chapter 5.3.1 in https://www.entsoe.eu/fileadmin/user_upload/edi/library/errp-v4r0/documentation/errp-guide-v4r0.pdf, there is both “PlannedResourceTimeSeries” and “UnavailableResourceTimeSeries”. But we only describe the first one in our BRS. And if we would use the code A70 for “Production, unavailable”, then – I think – we should use the “UnavailableResourceTimeSeries”.

Action:

- No action, since the Unavailable Resource Time Series not relates to unavailable production units, but unavailable plans/schedules.

- F) According to the above Entso-e schema (and also in version 3) the attribute “ConnectingArea” is required, why isn’t it that in our class diagram?

Action:

- Connecting area will be made required.

- G) The type ObjectAggregation_Code should probably be ObjectAggregationType, cfr our Market Schedule schema and the Entso-e schema.

Action:

- Corrected, i.e. DT changed.

- H) In chapter 7.2.2.1 (regarding the Resource Schedule Confirmation Report) the attributes ”Connecting area” and ”Acquiring area” are said to be “not used”. But on the other hand there is listed “In area” and “Out area” that ought to be changed to ”Connecting area” and ”Acquiring area” to be more in line with Entso-e. And “Business Type Characteristics” should (here) be dropped.

Action:

- Corrected, i.e. Connecting area was made required, and In- and Out area were removed. Business Type Characteristics will be kept and text will be added.

- I) In the schema from Entso-e the “Resource Schedule Confirmation Report” both has “PlannedResourceTimeSeries” as well as “UnavailableReservesTimeSeries”.

Action:

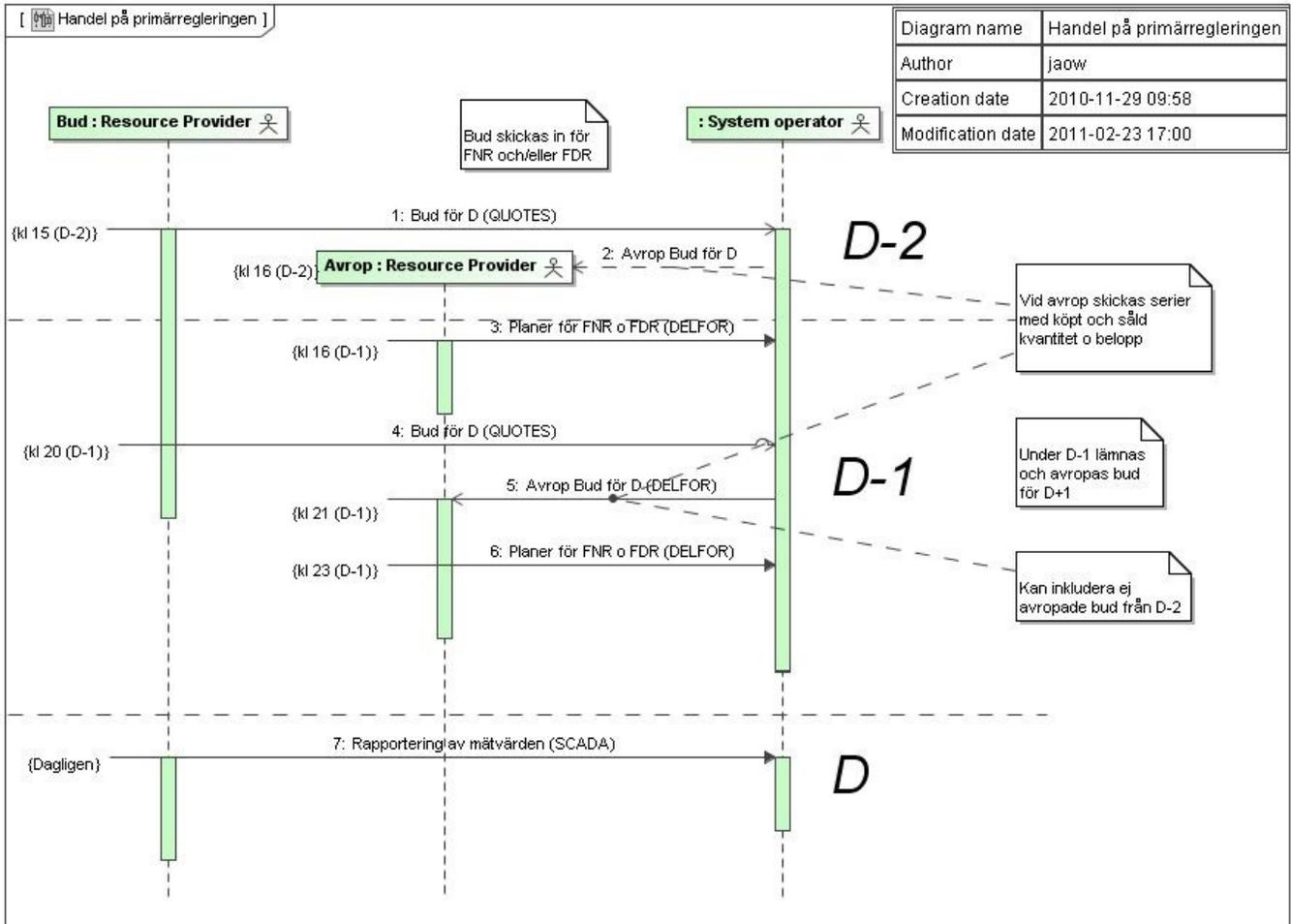
- No action, since the Unavailable Resource Time Series not is used in the Nordic countries.

- J) Also here the “ConnectingArea” is required in the Entso-e schema. But in this case we have stated “not used” for Connecting Area – this must be discussed.

Action:

- BRS updated, see H above.

Appendix C TRADE IN SWEDISH PRIMARY REGULATION FROM APRIL 2011



Appendix D TO BE DISCUSSED AND AGREED

1. Should the new principles for time series identification in Sweden influence this project?
2. Follow up on *Special rules related to NOIS*:
 - Reason codes have to be sent in a separate time series. The related quantities must always have a dummy value, but the value will be ignored by NOIS.
3. Follow up on question to the HG on how to handle a *Quantity quality* (metered, estimated...) and “no-value” or “nilP”.
4. The operation name for submission of a message in WS should specifically not be named SendMessage since this exact name is used as a reserved keyword in Microsoft BizTalk Server. If, and if so where, to put this recommendation should be decided.
5. ENTSO-E maintenance requests related to Danish reason codes

Z01	Operational	The given unit has a status of operational
Z02	Reduced Operational	The given unit has a status of reduced operational
Z03	Non Operational	The given unit has a status of non operational
Z04	Revision	The given unit is under revision
Z05	Suspended	The given unit is suspended
Z06	Crashed	The given unit is crashed
Z07	Discarded	The given unit is discarded
Z11	Planned	The information provided has a status of planned
Z12	Counterpart Imbalance	The information provided has a status of imbalance with a counterpart
Z13	Internal Imbalance	The information provided has a status of internal imbalance
Z15	Forced Adjustment	The information provided has status of a forced adjustment
Z16	Forced Adjustment Final	The information provided has status of a forced adjustment and is final
Z17	Final	The information provided is final

Appendix E EXTRACT OF THE OVERALL PROJECT PLAN

The following 5 phases have been identified in the *Nordic TSO Market model project for data exchange*:

Phase 1 *Determine transfer capacity process*

Phase 1 was finalised spring 2009 regarding documents from the project group. However Maintenance Requests (MR) to ENTSO-E/WG-EDI is still in progress.

Phase 2 *Scheduling and Ancillary Services Process* covered by the ENTSO-E ESS and ERRP IGs

- operational and financial
- balancing and reserves
- In addition phase 2 include:
 - A document containing common rules and recommendations, *including* detailing of a communication platform
 - A document covering a common *Domain model* for the Nordic market.

Phase 2 was finalised spring 2010 regarding documents from the project group. However Maintenance Requests (MR) to ENTSO-E/WG-EDI is still in progress.

Phase 3 *Nordic trading system*

- Bid to the Balance regulation market
- Prices from the balancing market and spot market, and other Nord Pool messages
- Activation messages
- Bid process to the Spot market (dependent on NordPool)

Phase 3 started autumn 2009 and is still in progress. It is mainly processes related to Nord Pool Spot that are left.

Phase 4 *Settlement process*

Phase 4 started in spring 2010, but is currently awaiting the Nordic Balance Settlement (NBS))

Phase 5 *Implementation verification*

- Preparation for implementation verification of the documents between the Nordic TSOs and Nord Pool Spot

The Customer switching (CuS) process is a potential additional phase, dependent on political decisions, i.e. a common Nordic end user market.

For each of the phases mentioned above, a BRS will be made for the relevant business process. Change requests will be submitted for all identified differences between the Nordic processes and ENTSO-E/ebIX[®] standards.

Activity	Spring 2009	Autumn 2009	Spring 2010	Autumn 2010	Spring 2011	Autumn 2011	Spring 2012	Autumn 2012
Phase 1, Determine transport capacity	[Activity duration]							
BRS	[BRS duration]							
Change request to ENTSO-E			[Change request duration]					
Phase 2, Scheduling process	[Activity duration]							
BRS	[BRS duration]							
Change request to ENTSO-E		[Change request duration]						
Phase 3, Nordic Trading System		[Activity duration]						
BRS		[BRS duration]						
Change request to ENTSO-E			[Change request duration]					
Phase 4, Settlement process	Awaiting NBS (Nordic Balancing System)							
BRS								
Change request to ENTSO-E								
Phase 5, implementation verification					[Activity duration]			

Appendix F CONNECTING LINE IN ECAN

Thank a lot Martin,
I will present this at the WG EDI phone meeting on the 7th of December.
Best regards
Maurizio

-----Message d'origine-----

De : Martin Barbero, Agustin [mailto:ambarbero@ree.es] Envoyé : lundi 21 novembre 2011 16:46 À : MONTI Maurizio Cc : Mike Conroy Objet : ECAN group decision on NEMM 2011/93
Dear Maurizio,

Regarding the Maintenance Request NEMM 2011/93, the ECAN group discussed it at length and agreed on a modification to the CapacityDocument.

A new element will be added at the timeseries level "ConnectingLine" with a coding scheme, to reflect the asset that connects In and OutArea and for which capacity information is provided in the timeseries.

A schema of the modified CapacityDocument will be provided as Work In Progress in case there is urgent need for this change before the next version of the ECAN IG is ready.

Best regards,

Agustín Martín Barbero
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