Agenda: NMEG meeting **Date:** Tuesday May 28th and Wednesday May 29th **Time:** 09:00 – 17:00 day 1 and 9:00 – 15:00 day 2 **Place:** Energinet's offices in Erritsø		**NMEG** Nordic Market Expert Group
June 19th, 2024		

Present:
Christian, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub (GoToMeeting)
Ove, Edisys (secretary)
Søren, Nordic RCC
Teemu H, Fingrid (GoToMeeting, day 2)
Teemu K, Finish datahub

To (NMEG):
Anne Stine, Elhub
Christian, Energinet
Henrik, Energinet
Jan (DK), Energinet
Jan (SE), Svenska kraftnät
Jon-Egil, Statnett (convenor)
Mario, Elhub
Miika, Fingrid
Ove, Edisys (secretary)
Teemu H, Fingrid
Teemu K, Finish datahub

CC:
Bent Atle, NBM/Svenska kraftnät
Fedder, Energinet
Hans Erik, Elhub
Pamina, Energinet
Tage, Energinet

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

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

Implementing EU 2023 1162 in Sweden

see item 19.1, How to implement the regulation 2023/1162 "on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data"

EA version control - NMEG - out.pptx

see item 17.1,

1   Approval of agenda

The agenda was approved with the following additions:

- Update needs for NBS BRS for TSO-MO, see item 9.2.
- Elhub pilot using Lemontree version control for Sparx EA 16 and git, see item 17.1.
- How to implement the regulation 2023/1162 "on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data", see item 19.1.

Prioritised items:
1) Nordic determine transfer capacity BRS vs ENTSO-E implementation guides, see item 10.2
2) CIM for NBS, see item 9.3

2   Approval of previous meeting minutes

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

3   Status for the handover of ebIX® deliverables to the DSO Entity

Background: ebIX® closed down by the end of 2023 and the DSO Entity has agreed to take over the ebIX® deliverables

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

There was a two-days physical "ebIX® handover to DSO Entity meeting" in Essen, end of April, where 13 people participated. The participants represented mainly JWG/TF3, i.e. both from DOS Entity and ENTSO-E. Gerrit from EDSN, Jan (SE), Ove and Vlatka Westnetz participated as ebIX® representative. The topics were among others the HEMRM, the ebIX® BRSs, the ebIX® code lists, the ebIX® model, a walkthrough CIM and ESMP, and how to make MRS.

Ove and partly Gerrit will participate in JWG/TF3 until end of June to transfer as much knowledge as possible from ebIX®.

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

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

References (links):
What to decide,
discuss or inform: Status for finalising and implementation of the new ECP End Point software.

Jon-Egil informed that NEX has made a new report that hopefully will be finalised this Friday. The report describes how to continue development of ECP in Nordic context and will be forwarded to NIT for a decision.

5   Nordic Dynamic dimensioning project (Henrik)

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

References (links):
What to decide,
discuss or inform: Status for the project.

The item was postponed.

6   Status from NEX (Nordic ECP/EDX Group)

Background: NIT has taken over the responsibility for NEX (Nordic ECP/EDX Group), former "ECP/EDX Centre of Excellence". However, the group is still below NMEG in the "formal hierarchy". NMEG will be kept informed of progress in the group.

Further, NIT has approved the establishment of a short-term secure communication platform and short-term ECP requirements. However we will also have to investigate long-term solutions. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links):
What to decide,
discuss or inform: Status from NEX.

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

Background: NIT has approved the establishment of a short-term secure communication platform. It is NEX responsibility to do the work. NMEG will follow up and supervise.

References (links):   From the NMEG roadmap:

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

What to decide,
discuss or inform: Status for the project

This is an ongoing task where the actual work is done in NEX. Jon-Egil is following the task as NMEG representative.

6.2   How to handle the new NMEG strategic action: "Establish new ECP requirements"?

Background: NIT has approved the establishment of a short-term ECP requirements. However we will also have to investigate long-term solutions. The NEX group is the one who have the knowledge and the one to making the first draft of an ECP recommendation. NMEG will follow up and supervise.

References (links):   From the NMEG roadmap:

> *NMEG will establish new ECP requirements to be sure that ECP will be compliant with the future TSO needs.*

This is also an ongoing task where the actual work is done in NEX. Jon-Egil is following also this task as NMEG representative.

7   Support to Nordic RCC

Background:	The Nordic RCC is a central body in the Nordic energy market with need for common data exchange standards, hence a natural member of NMEG.
References (links):	None.
What to decide, discuss or inform:	Update of BRSs, MRs for CIM and/or ESMP, etc. All based on Nordic RCC needs.

Nothing new reported.

8   Support to the NBM project

Background:	The NBM-project (Nordic Balancing Model) is going forward and there is a need for several new CIM based documents.
References (links):	http://nordicbalancingmodel.net/
What to decide, discuss or inform:	Status for the NBM project and possible task for NMEG.

8.1   Alignment of NMEG BRSs and NBM BRSs/IGs

Ove had as action made the "NMEG memo - Alignment of NBM and NMEG BRSs". The memo lists the NBM BRSs and IGs and suggests which NMEG BRSs that should be updated with the NBM requirements. The memo was reviewed, and it was agreed which NMEG BRSs to update.

Bent Atle will leave the NBM project and the responsibility for aligning the NBM need for data exchange will be moved to NMEG. However, the maintenance of the NBM web site will continue as a NBM task. Ove will ask Bent Atle for a copy of his EA NBM models to have them available for NMEG.

Action:
- Ove will ask Bent Atle for a copy of his EA NBM models to have them available for NMEG.
- Ove will start updating NMEG BRSs with content from the NBM BRSs/IGs

9   Support to NBS (eSett)

Background:	NMEG has made a set of BRSs for NBS (Nordic Balance Settlement). NMEG has also drafted a set of documents, both based on older ENTSO-E and ebIX® standards, and newer based on CIM. These BRSs and messages needs to be maintained and extended based on new requirements from the market.
References (links):	https://ediel.org/nordic-balance-settlement-nbs/
What to decide, discuss or inform:	Status for the updates and extensions of/to NBS BRSs and documents.

9.1 Update of NBS BRS and NBS BRS for TSO-MO

At the NMEG meeting April 8th, it was questioned why the Business Type "**A69** Market coupling results" not should be added to the NBS BRS for TSO-MO, but only to the urn-ediel-org-neg-ecan-publicationdocument-1-0-restricted-codes.xsd.

Tuomas P has informed that he agrees to add the Business Type "**A69** Market coupling results" to the Publication Market Document. However, the Publication Market Document is documented in the BRS for TSO-MO while the Business Type "A69 Market coupling results" will be used towards the market participants, hence this should be documented in the NBS BRS, but then it would simply be a duplicate – and then we should do it also for the ENTSO-E ERRP Planned resource schedule.

In practice eSett provide to BRPs, BSPs and DS all their own data that we are allowed to, and it includes the data that we have received initially from TSOs or NEMOs. One option could then be to combine NBS BRS and NBS BRS for TSO-MO into a single BRS document. Or we could rename the NBS BRS for TSO-MO to something like "NBS BRS for TSO-MO and information exchange to the market participants".

At this meeting we will discuss how to deal with the issue.

Conclusion:
- Ove will merge the two BRS into one, reusing the first document description from the TSO-MO BRS instead of the table in the NBS BRS

Action:
- Ove will merge the NBS BRS and NBS BRS for TSO-MO into one, reusing the first document description from the TSO-MO BRS instead of the table in the NBS BRS

9.2 Update needs for NBS BRS for TSO-MO

From Tuomas P:

> In next December, reserve capacity invoicing in Norway is moving to eSett and there are several changes coming also due to mFRR EAM. eSett has reached out to Nordic TSOs to compile an overview of upcoming changes.

> We have identified that there will be some product changes in the "Ediel ERRP Reserve Allocation Result Document". Here's a list of new products that are needed, and below in the table I have highlighted the changes for the dependency matrix. The last column "Other comments" is just for your information.

>   **Z74** Disturbance reserve mFRR-D
>   **Z89** Bidless activation (Activation without BSP bid)
>   **???** mFRR-D, correction

> We hope that you could, provide the missing code and update the related documentation accordingly, as we need to start our preparations for the upcoming changes.

> Also, if you feel that something is missing or incorrect, kindly let me know.

Process type	Business type	Doc. Type	Direc-tion	Reason Code, 1st repetition	Reason Code, 2nd repetition	Tendering Party	Reserve Object	Used in				Other comments
								DK	FI	NO	SE	
A30 (Tertiary		**A38**		**Z22** Supportive power	N/A	**TSO**	N/A		✓			

Process type	Business type	Doc. Type	Direction	Reason Code, 1st repetition	Reason Code, 2nd repetition	Tendering Party	Reserve Object	DK	FI	NO	SE	Other comments
reserve process)				Z26 Transit triangle	N/A	TSO	N/A			✓		
				Z27 Transit redispatch	N/A	TSO	N/A			✓		
				Z28 Transit SB Loop Long	N/A	TSO	N/A			✓		
				Z31 mFRR, Balancing Power (**NO**: Ordinary regulation)	N/A	BRP	✓	✓	✓	✓	✓	
					Z58 Scheduled activation	BRP	✓	✓	✓	✓	✓	
					Z59 Direct activation	BRP	✓	✓	✓	✓	✓	
					Z60 Faster activation	BRP	✓		✓	✓		
					Z61 Faster deactivation	BRP	✓		✓	✓		**NO:** Uncertain
					Z62 Slower activation	BRP	✓		✓	✓		**NO:** Uncertain
	A10 (Tertiary control)		**A01** or **A02**	Z34 mFRR, Quarter regulation	N/A	BRP	✓			✓		**NO:** Ends with 15 min ID/DA
				Z35 mFRR, Special Regulation (**NO**: Specially regulation)	N/A	BRP	✓	✓	✓	✓	✓	
					Z58 Scheduled activation	BRP	✓	✓	✓	✓	✓	
					Z59 Direct activation	BRP	✓	✓	✓	✓	✓	
					Z60 Faster activation	BRP	✓		✓	✓		
					Z61 Faster deactivation	BRP	✓		✓	✓		**NO:** Uncertain
					Z62 Slower activation	BRP	✓		✓	✓		**NO:** Uncertain
				Z36 Hour Change Regulation (**NO:** Move of production)	N/A	BRP	✓		✓	✓	✓	**SE:** We are planning to use Hour Change Regulation, and from 15 min ISP Quarter Change Regulation. Can Z36 be used with 15 min resolution? Ideally, the name should then be changed. **NO & FI**: Ends with 15 min DA
				Z37 Power Transaction	N/A	BRP	✓		✓			

Process type	Business type	Doc. Type	Direction	Reason Code, 1st repetition	Reason Code, 2nd repetition	Tendering Party	Reserve Object	Used in				Other comments
								DK	FI	NO	SE	
				Z38 TSO Internal Countertrades (Only used in Finland)	N/A	**BRP**	✓		✓			
				Z39 Day Ahead Production Adjustment (**NO:** Production smoothing)	N/A	**BRP**	✓			✓		**NO:** Ends with 15 min ID/DA
				Z54 Activation by AOF (Activation Optimisation Function)	N/A	**BSP**	✓	✓	✓	✓	✓	
				Z55 Manual activation not based on AOF	N/A	**BSP**	✓	✓	✓	✓	✓	
				Z63 Period shift activation	N/A	**BRP**	✓			✓		
				Z74 Disturbance reserve mFRR-D	N/A	**BRP**	✓			✓	✓	
				Z89 Bidless activation (Activation without BSP bid)	N/A	**BRP**	✓			✓	✓	
		A81	**A01 or A02**	**Z31** mFRR, Balancing Power (**NO**: Ordinary regulation)	N/A	**BRP or BSP**	N/A	✓		✓	✓	
				Z35 mFRR, Special Regulation (**NO:** Specially regulation)	N/A	**BRP or BSP**	N/A	✓			✓	
				Z74 Disturbance reserve mFRR-D	N/A	**BRP or BSP**	N/A			✓		
				Z76 mFRR, correction	N/A	BRP or BSP	N/A			✓	✓	

Process type	Business type	Doc. Type	Direction	Reason Code, 1st repetition		Reason Code, 2nd repetition	Tendering Party	Reserve Object	DK	FI	NO	SE	Other comments
				Znn	mFRR-D, correction	N/A	BRP or BSP	N/A			✓		
A28 (Primary reserve process)	A11 (Primary control)	A38	A01 or A02	Z29	FCR	N/A	BRP	✓		✓	✓	✓	
		A38	A01 or A02	Z40	Frequency Containment Reserves, Normal (**FCR-N**)	N/A			✓			✓	
		A38	A01 or A02	Z41	Frequency Containment Reserves, Disturbance (**FCR-D**)	N/A						✓	
A28 (Primary Reserve process)	A11 (Primary control)	A81	A01, A02 or A03	Z29	FCR	N/A	BRP or BSP	N/A	✓			✓	
			A03	Z42	FCR-N, late	N/A			✓			✓	
				Z43	FCR-N, early	N/A			✓			✓	
				Z44	FCR-N, late correction	N/A			✓			✓	
				Z45	FCR-N, early correction	N/A			✓			✓	
			A01 or A02	Z46	FCR-D, late	N/A			✓			✓	
				Z47	FCR-D, early	N/A			✓			✓	
				Z48	FCR-D, late correction	N/A			✓			✓	
				Z49	FCR-D, early correction	N/A			✓			✓	
			A01 or A02	Z56	FFR	N/A			✓			✓	
A29 (Secondary)	A12 (Secondary control)	A38	A01 or A02	Z30	aFRR	N/A	BRP	✓	✓	✓	✓	✓	
				Z54	Activation by AOF	N/A	BSP	✓	✓	✓	✓	✓	

Process type	Business type	Doc. Type	Direc-tion	Reason Code, 1st repetition		Reason Code, 2nd repetition	Tendering Party	Reserve Object	Used in				Other comments
									DK	FI	NO	SE	
reserve process)				Z55	Manual activation not based on AOF	N/A	BSP	✔	✔	✔	✔	✔	
		A81	A01 or A02	Z30	aFRR	N/A	BRP or BSP	N/A	✔		✔	✔	
				Z75	aFRR, correction	N/A	BRP or BSP	N/A			✔	✔	

Conclusion:
- We add a new Reason code to the BRS and the NMEG code list:

Z93	mFRR-D correction	Correction of Manual Frequency Restoration Reserve down (mFRR-D).

- When we move to CIM we will simplify the codes according to new principles for how to use codes.
- Also, in the future, we will investigate if we can make a structure where we can report both ramping and block products

Action:
- Ove will add the new Reason code to the NBS BRS for TSO-MO and to the NMEG code list.
- Ove will thereafter send the two documents to NMEG for one week of commenting and finally publish them.

9.3   CIM for NBS

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

NTC made Interim conclusions (to be discussed in NMEG). From first brief discussion in NMEG February 23rd, 2023:
- We should avoid using the RGCE document, since this is a specific RGCE document.
- For Aggregated MGA data, we should investigate the EAR document.

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

Conclusion May 28th, 2024:
  - It seems that the FSKAR MeteringData_MarketDocument is the best alternative – the only missing attribute Is the "Metering Point Type".
  - Ove will make an MR for addition of EnergyCharacteristics class and the flowCategory attribute.

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

    Conclusion May 28th, 2024:
    - o It seems like the EAR document is the best – we need to:
        - ▪ Change cardinality of the MarketParticipant class and add a Role
        - ▪ Add EnergyCharacteristics class and the flowCategory attribute
        - ▪ Add Settlement method to the EnergyCharacteristics class and add it to the EAR
        - ▪ Add MktPSRType
        - ▪ Add a Reason code to TimeSeries to be used for Normal/minor (Production type)
    - o Ove will make MRs for the additions above to the EAR document.

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

    Conclusion May 28th, 2024:
    - o It seems that the FSKAR MeteringData_MarketDocument is the best
    - o We must add a quality
    - o **Note:** we must investigate if the association without a name (the "MGA responsible for the measurements") still is needed or eventually if we could use the MarketParty (DSO) instead
    - o Ove will make MRs for addition of a quality to the FSKAR MeteringData_MarketDocument.

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

    Conclusion May 28th, 2024:
    - o Same as Aggregated data per neighbouring grid (see above), except that we need a new association from Point to Quantity called "DeltaQuantity".

Still to investigate:
- Is the association without a name (the "MGA responsible for the measurements") still needed or can we use the MarketParty (DSO) instead?

Actions:
- Ove will make an MR for addition of the following to the FSKAR MeteringData_MarketDocument:
    - o Add EnergyCharacteristics class and the flowCategory attribute (to be used for "Validated data for settlement for Aggregator")
    - o Add a quality attribute (to be used for "Aggregated data per neighbouring grid")
    - o Add an association from Point to Quantity called "DeltaQuantity" (to be used for "Confirmation of aggregated data per neighbouring grid")

- Ove will make MRs for the additions following to the EAR document:
    - o Change cardinality of the MarketParticipant class to [0..*] and add a Role class
    - o Add EnergyCharacteristics class and the flowCategory attribute
    - o Add Settlement method to the EnergyCharacteristics class and add it to the EAR
    - o Add MktPSRType

     o   Add a Reason code to TimeSeries to be used for Normal/minor (Production type) Ove will make MRs for addition of EnergyCharacteristics class and the flowCategory attribute.

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

Background: NMEG is responsible for a set of BRSs and other documents, such as the NMEG code list, which are published at www.ediel.org.

References (links):   None.
What to decide,
discuss or inform: Update of BRSs and other documents if needed.

10.1 Exchange of settlement information between the Nordic TSOs

Background: NMEG has made a first draft of a NMEG BRS for TSO-TSO settlement (release candidate - for test implementation).

References (links):   None.
What to decide,
discuss or inform: Finalise the BRS.

Ove had as action updated the BRS, send it on circulation for comments to NMEG for one week and thereafter published it. Also, Ove had removed the extended FSKAR document from ediel.org.

Jan (SE) had as action sent an email to Bhagyashree asking her to correct the definition of Asset type B21 ("… Alternative Current"-> "… Alternating Current").

Finally, Jon-Egil and Jan (SE) had verified with the Norwegian and Swedish TSO-TSO settlement projects if we should extend the FSKAR settlement document with a flow direction, so that we can use the FSKAR settlement document also for FCR and ramping. The conclusion was that we will use the FSKAR settlement document also for FCR and ramping, hence the ERRP Reserve Allocation Result Document will be removed from the BRS

Jon-Egil explained the ramping principles:
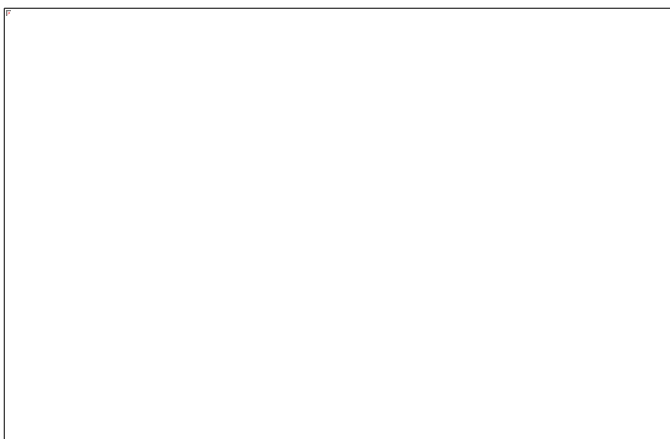
Ramping can be handled by using signed values, Reason code, Business Type or Flow Direction.

There was a longer discussion related on how to handle the direction for FCR-D up and down, such as using BusinessType, Reason code, signed values or Flow Direction. The conclusion was that it is important to use the same principles as used for FCR-D bids, which is sent as ERRP Reserve bid documents – and there we use the Flow direction.

Conclusion:
- We make an extended Ediel FSKAR settlement document where we add the FlowDirection.

It was also agreed making an MR for addition of the EnergyMarket class with the timeFrame attribute, however this will not be added to the BRS.

The definition of "Nordic area" was updated, both in the Business partner view and in the MarketDocument description tables.

Action:
- Ove will make a MR for addition of FlowDirection to the FSKAR settlement document.
- Ove will make a MR for addition of EnergyMarket and the timeFrame attribute to the FSKAR settlement document.
- Ove will update the definition of "Nordic area" in the Business partner view and in the MarketDocument description tables, in all BRSs, however not republish the other BRSs with only this change.
- Ove will clean up the BRS for TSO-TSO settlement and send it on one week of circulation for comments to NMEG before publishing it.

10.2   Nordic determine transfer capacity BRS vs ENTSO-E implementation guides

The BRS for Determine transfer capacity was reviewed and it was discussed how these ENTSO-E documents like:

- Coordinated Capacity Calculation IG (entsoe.eu)
- Draft IEC 62325: (entsoe.eu)
- CRAC document UML model and schema (entsoe.eu)

  relates to the Nordic determine transfer capacity BRS:
  - We base our work on IEC and ENTSO-E document, when needed we amend them and create extensions for Nordic needs and descriptions for how to use it in a Nordic context.
  - The BRS for Determine transfer capacity will be updated with NBM requirements.

A short discussion ended in the conclusion that it is always the Nordic BRS that we are using/should use/will use.

Conclusion:
- It is always the Nordic BRS that we are using/should use/will use.

The following proposal was also reviewed to see if we shall add it to all NMEG BRSs:

1.3 About Nordic Ediel BRSs

  The NMEG Ediel Business Requirement Specifications (BRSs) describes business processes where data is exchanged between market participants in the Nordic energy market based on the UN/CEFACT

Modelling Methodology (UMM). A BRS is a tool that helps the participants in the Nordic energy market to implement effective and harmonised data-exchange processes. The Ediel BRSs can be seen as a framework designed to improve communication between stakeholders, reduce development time, and minimise errors.

The Nordic Ediel BRSs covers all aspects of a business requirement specification for a specific data-exchange process and purpose, including functional requirements, non-functional requirements (partly), UseCases, and data flows.

NMEG Ediel BRSs will as far as possible be based on already available standards and best practices, such as:

1) ENTSO-E Implementation Guides (IGs) based on IEC 62325-451-n standards
2) ENTSO-E Implementation Guides (IGs) based on IEC 62325-351 standard
3) Other Implementation Guides (IGs) based on IEC 62325-351 standard
4) EU Implementation Regulations
5) Documents from the DSO Entity and the ENTSO-E and DSO Entity Joint Working Group (JWG)
6) Nordic BRSs, IGs, regulations etc.

In addition, the NMEG Ediel BRS will document Nordic extensions and/or restrictions compared with the standards and best practices the BRS is based on.

Action:
- Ove will update all NMEG BRSs with the new chapter "1.3 About Nordic Ediel BRSs", however not publish them yet.

10.3 *Update of BRS for Nordic trading system with updated processes and documents for FCR (Reserve) Bid Document*

The review of the BRS for Nordic trading system continued and was finalised.

Action:
- Ove will send the BRS on circulation for comments to NMEG for one week before publishing it.

10.4 *NMEG CIM master data documents*

Shall we make a NMEG Master data BRS that covers the need from both NBM and NBS?

Conclusion:
- We make a common BRS and expect that NBS will use the new BRS when migrating to CIM version.

Bent Atle had followed up on NBM/Unicorn (Miloš) and the conclusion was that NBM can use the updated master data documents made for NBS.

Action:
- Ove will make a first draft of a Nordic Master data BRS

10.5 BRS for Nordic Scheduling and Ancillary Services Processes: ERRP Planned Resource Schedule Document for Svenska kraftnät

At our meeting in January, the Business Types **A10** and **A12** were changed to **A95** and **A96** in the ERRP Planned Resource Schedule Document in the BRS for Nordic Scheduling and Ancillary Services Processes. Further, at our previous meeting Henrik informed that he has asked internally and that he is wating for the response.

Continued action:
- Henrik will investigate if we can replace the Business types **A10** and **A12** to **A95** and **A96** also for Denmark.
- Thereafter Ove will publish it after circulation for comments to NMEG for one week.

The item was postponed.

10.6 Update of NMEG code list

10.6.1 Shall we deprecate Business Type code "**Z76** Day ahead prices used for CZC forecast calculation"

Decide if the Business Type code **Z76** shall be deprecated or kept. If kept, can we find a better description of the code:

Code	Name	Description
Z76	Day ahead prices used for CZC forecast calculation	Day ahead prices used for Cross Zonal Capacity forecast calculation

(**CZC** = Cross Zonal Capacity = The cross-zonal transmission capacity between two bidding zones.)

Continued action:
- Søren will investigate if Nordic RCC needs the code.

The item was postponed.

10.7 Status for new Nordic extended Schedule Outage Market Document

Review of the Nordic extended Schedule Outage Market Document to see if it should be published at www.ediel.org.

The item was postponed.

10.8 Exchange of dynamic "HVDC-run-profiles"

From Jan (SE):

The UseCase is the exchange of dynamic "HVDC-run-profiles" from Fingrid to Svenska kraftnät regarding the two cables for Fennoskan (see https://en.wikipedia.org/wiki/Fenno%E2%80%93Skan).

For the two cables (FS 1 and FS 2) it will be both the two single and the total possible flow that would be relevant to exchange on a daily basis.

E.g. if the total flow is 850 MW over Fennoskan, how should we run the two cables? What will be the flow per cable? Spreading out the total flow on the two cables will differ from day to day, dependent on e.g. possible issues with the physical cables.

The idea is to exchange this "profile information" between the closure of the DayAhaed market and the opening of the IntraDay market.

And **the question to NMEG** is: may we use CIM as a basis for the exchange rather than sending a CSV file?

Let us as an example have a day then when the capacity (in MW) for FS1 is between -400 to +400 and for FS2 is between -800 and +800. That will differ from day to day.

The "profile message" will tell how the possible total flow, in the example, from -1200 to +1200 MW will be splitted to the two cables, example:

| Power_orders	FS1	FS2
-1200,000	-400,000	-800,000
-1199,900	-399,967	-799,933
-1199,800	-399,933	-799,867
-1199,700	-399,900	-799,800
-1199,600	-399,867	-799,733
-1199,500	-399,833	-799,667
-1199,400	-399,800	-799,600
-1199,300	-399,766	-799,534
-1199,200	-399,733	-799,467
-1199,100	-399,700	-799,400
-1199,000	-399,666	-799,334
-1198,900	-399,633	-799,267
…		
1198,900	400,000	798,900
1199,000	400,000	799,000
1199,100	400,000	799,100
1199,200	400,000	799,200
1199,300	400,000	799,300
1199,400	400,000	799,400
1199,500	400,000	799,500
1199,600	400,000	799,600
1199,700	400,000	799,700
1199,800	400,000	799,800
1199,900	400,000	799,900
1200,000	400,000	800,000

In this example the limit 400 MW is reached for FS1 before the limit 800 MW is reached for FS2. It could very well be that you want to run the cables differently and that the limit 800 MW for FS2 is reached before the limit 400 MW is reached for FS1, and it may actually be reached not only once but more times, see the second figure below.

The table will, among its 24000 rows, tell "how will the flow be on each cable if the total flow (the result of the trades) is e.g. 850 MW?" And there might be updates of the first provided message.

A graph, not for the above table, but for a similar one, could look like this
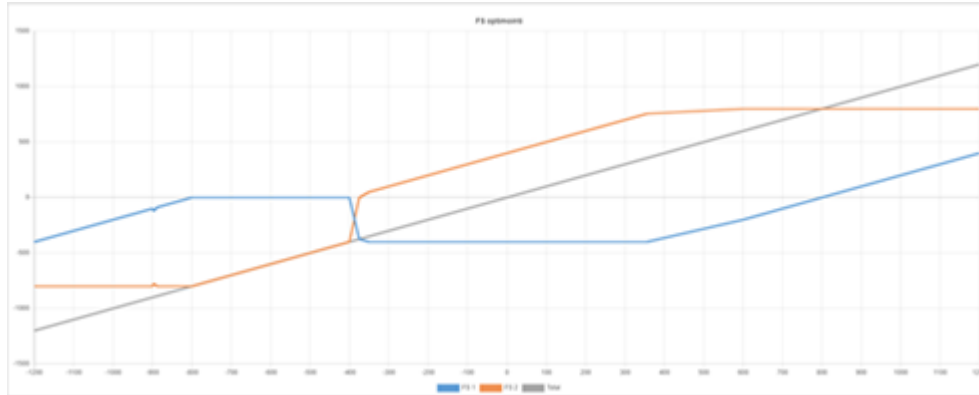
Another example of a profile, with the total at the x-axis, where the flow on FS1 is more stable than on FS2:
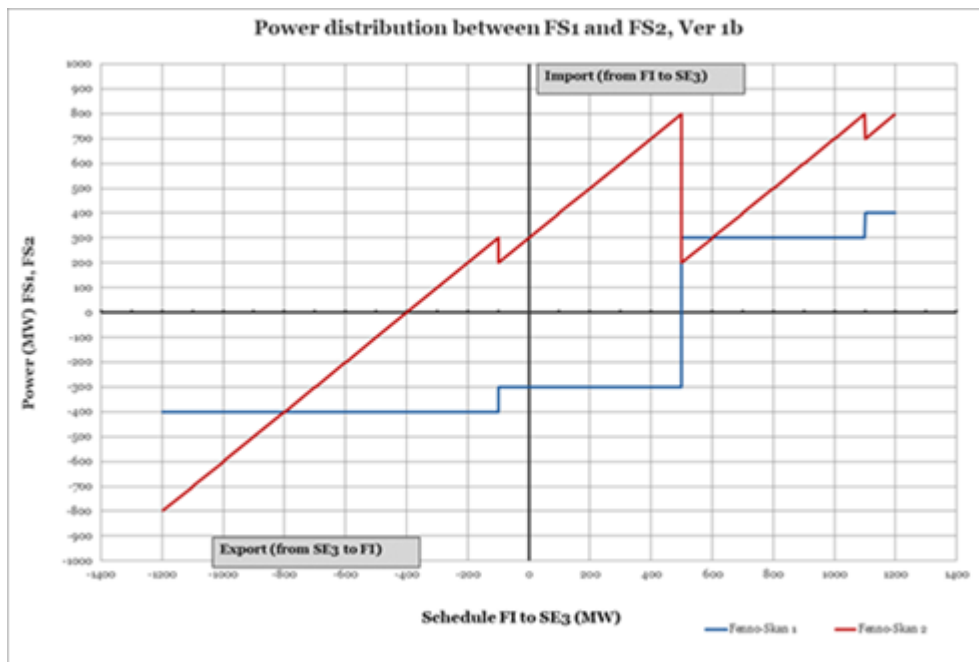
The CIM-based message will, and I think we can create one, have 24000 entries (in the example) with three values. It will also have a time period for when the profile is valid, but it isn't a time series.

Some other exchanges will be sent, one is the planned DA-flow per cable, or per "pole", (based actually on the profile above). I guess we may use either the ESS message or the PlannedResourceSchedule message – probably the latter, or?

Another exchange is in the discussions called "Pole Flow document", that is supposed to include DA-, ID-, power-, mFRR-information per pole (end of cable).

And there is also a need to exchange NTC related to Intraday Congestions and Single Intraday Coupling. The goal is to limit the number of "pole switches".

The latter exchanges are different kinds of time series where there are a lot of already defined descriptions from ENTSO-E and NMEG. It would only be a need to specify the XML schemas, the

message types, process types, and codes identifying the different types of time series (e.g. Business type).

After some discussions, a new CIM document was drafted:
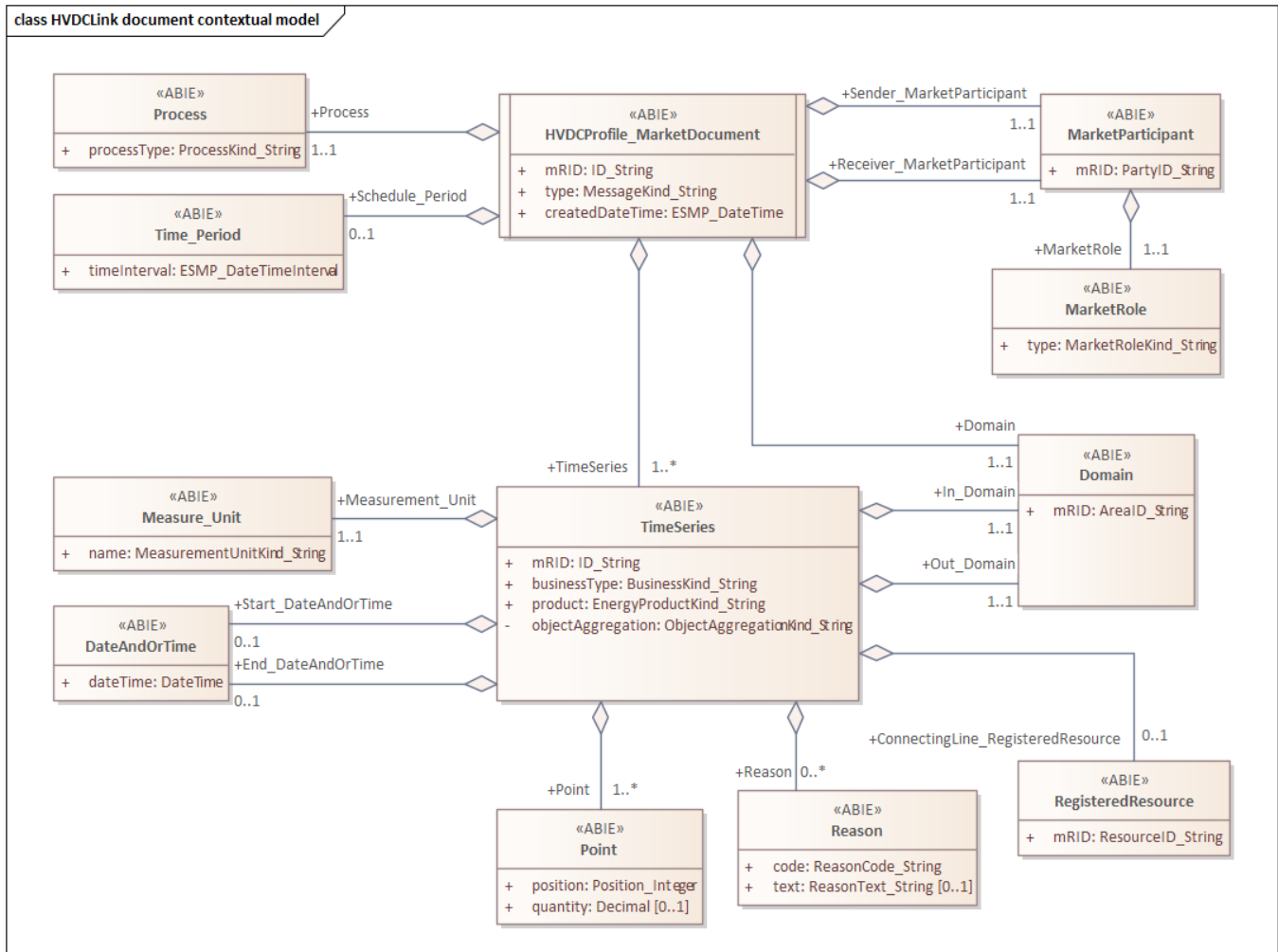
Action:

- Jan (SE) will investigate if the new CIM HVDCLink document is OK.
- If yes, Ove will make an assembly model and generate an xml schema.

11   Status for MRs to ENTSO-E

Background: NMEG has sent several Maintenance Requests (MR) to ENTSO-E during the last years and some of these (about 10 MRs) has been postponed by CIM WG.

References (links): The MRs can be downloaded from Statnett's eRoom.

What to decide, discuss or inform: Review and update of statuses in NMEG MR Overview document.

Status:

MR #		Status
NMEG 2022/205 (CIM WG)	Addition of a Category attribute to TimeSeries in IEC62325 and ESMP	***20220907:*** • Forwarded by Ove to Jon-Egil for submission to CIM WG ***20221006:*** • Ongoing ***20221031:*** • The MR is awaiting approval in the ENTSO-E ESMP SG before it is sent to CIM EG, hence it will probably still take a few weeks before it is handled ***20230124:*** • Not agreed – Jon-Egil, Jan (SE) and Alvaro will draft a new proposal. • To be continued ***20230222, 20230411, 20230830, 20231101, 20231205, 20240110, 20240205, 20240227 and 20240506:*** • Ongoing ***20240529:*** • Ove will make a new MR based on the previous. We will ask for the category attribute in the EnergyMarket class in both ESMP and Market, instead of in the TimeSeries class.
NMEG 2024/212	Add Related_MarketParticipant to Activation Market Document	***20240205, 20240227, 20240506 and 20240529:*** • Ongoing.

Action:
• Ove will make a new MR based on the previous NMEG 2022/205. We will ask for the category attribute in the EnergyMarket class in both ESMP and Market, instead of in the TimeSeries class.
  ▪

12   Report from JWG, with a special focus on datahub topics (fixed item on the agenda)

Background: The Joint Working Group (JWG) is formed from experts being nominated by the DSO Entity and ENTSO-E. In addition to those experts, three different Task Forces (TFs) with nominated representatives from both organisations have been created with the aim of supporting the goals of the JWG. The main tasks of these TFs are:

   TF1: *"Monitoring Implementing Regulations (MIR)"*
   ▪   Develop guidance to assist Member States in reporting national practices concerning access to metering data.
   ▪   Collect and monitor national practices on the implementation of the reference models for this access.

   TF2: *"Developing Implementing Regulations (DIR)"*
   ▪   Contributing to developing future implementing acts: customer switching [change of supplier] and demand response.

TF3: *"Data Interoperability Modelling (DIM)"*
- Keep a repository (roles, use cases and information objects) and ensure consistency of the reference models in the Implementing Acts.
- Map the reference model to standard models and, when necessary, propose amendments, extensions, and profiles for these standard models.
- Interact and collaborate with standardization organizations.

References (links): [Call for members of the stakeholders' panels for the Task Forces of the Joint Working Group on Data Interoperability](#)

What to decide, discuss or inform: Status in the TFs.

There is physical TF3 meeting June 18th. Among others it will be discussed:
- How to handle downstream market codes. The DSO Entity is a bit sceptical to use the current ENTSO-E code list.
- Next version of the HEMRM

  - o

Topics from TF2 discussions:
- The final draft IR for the change of supplier process is expected available for the JWG on July 4th.
- The draft IR for DR is expected sometime in the autumn, while the network code for DR is expected approved by ACER in March 2025.

Topics from TF1 discussions:
- Working with a guideline for sharing measured data in all European member states, split into datahubs that stores and distributes data, DSOs that's are responsible for sharing the data and something in between where a distributed database or similar is used.

13   Status for a common European Area project

Background: ebIX® has proposed a project plan for a common European Area project. ebIX®, ENTSO-E (CIM WG) and ENTSOG has confirmed participation, and the new EU DSO Entity is trying to fine member(s).

References (links):

What to decide, discuss or inform: Status for the project.

Will be proposed as a work item in JWG.

14   XML schemas

Background: The NMEG set of schemas, including extended table with TSO columns, was shown in Appendix B.
When we start a project together with NBM (Nordic Balancing Model), everyone are asked to find what versions of xml-schemas are used to day in different projects and come up with proposals for new schemas and/or sets of schemas that should be published at www.ediel.org.

References (links):
What to decide,
discuss or inform: Verify the list of proposals for new schemas and/or sets of schemas, from the NMEG participants, which should be published at www.ediel.org.

Since it has become a huge number of documents used in various projects and business processes within the Nordic energy market, it was assumed that it will be too much work for NMEG to maintain this list of xml schemas and versions compared to the benefit. Henc, it was decided to remove this item from the agenda and Appendix B.

Item closed.

15   Ediel.org Mysql issue

Background: www.ediel.org was down for some hours in July and it seems like the issue was around Mysql. The Mysql user we were using was deleted since it was stored under an old domain - 96873_edieltest - (edieltest.org).
www.ediel.org is working now, but we should setup a new Mysql directly under the Ediel.org domain and move the tables/data from the old DB over to www.ediel.org.

References (links):
What to decide,
discuss or inform: Status for moving Mysql to www.ediel.org.

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

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

Ove had as action made a small text for the Archive menu and links to the sub-menus, which was reviewed and approved.

Item closed.

17   NMEG Technical Committee (NTC)

Background: At the NMEG meeting November 2019, it was agreed to establish a NMEG CIM-XML Subgroup that will make Nordic CIM based XML documents. The following tasks are prioritised (updated at NMEG meeting March 2020):
      a) Continue with NBS documents:
           1. NBS ebIX® based documents.
           2. NBS documents based on older ENTSO-E schemas.
           3. NBS master data documents.
The members of NMEG CIM-XML Subgroup are Bent Atle, Christian, Henrik, Jan (DK), Jan (SE), Jon-Egil, Mario, Teemu H, Teemu K and Ove.

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

17.1   Elhub pilot using Lemontree version control for Sparx EA 16 and git

Mario presented the Elhub pilot using Lemontree version control for Sparx EA 16 and git.

Mario noted that Sparx EA only supports version 16 of EA. Version 15 can't even be downloaded, from what I see. With that in mind, it would be nice to have all related tools running on supported version of Sparx EA. Lemontree went step further and decided to support latest 2 major versions of Sparx EA, although some bugs in EA v15 are noted.

Action:
- Ove will investigate the status for migration of CIMConteXtor and CIMSyntaxGen to EA version 16, i.e. contact Andre/Jean-Luc and Eduardo.

17.2   Report from NTC meeting May 22ⁿᵈ

Present: Bent Atle, Jan (DK), Jan (SE), Mario, Ove and Teemu K.

Mario has informed that he mostly is done with pilot in Elhub which involves Sparx EA 16, Lemontree version control for EA and git. Results are very promising and, if there is interest, he can present shortly the Elhub conclusions and show a few typical examples on one of future NMEG/NTC meetings.

Conclusion:
- Mario will do a presentation during the NMEG meeting next week in Denmark, see item 17.1 above.

Some final comments from Ove related to the Request change of supplier mapping were reviewed and resolved. Ove will as homework add the association from AccountingPoint_MarketParticipant to ContactPoint.

Thereafter the requirements for Confirm change of supplier and Reject change of supplier from the Danish, Finnish and Norwegian hubs were investigated:

- The Finnish acknowledgement process is a synchronous process, hence no reference to the request is needed. An example of Request change of supplier:

      <urn14:EventReason>
      <urn14:EventReasonCode>OK-001</urn14:EventReasonCode>
      <urn14:EventReasonText>Succes</urn14:EventReasonText>
      <urn14:EventDetails>AT03</urn14:EventDetails>
      </urn14:EventReason>

  EventDetails codes (Mapped to MarketDocument/processType):

      AT01=Switching agreements
      AT02=Switching suppliers
      AT03=Moving in

Conclusion:
- It seems that the mapping already done for the Danish Datahub will fit also the Finnish and Norwegian requirements.

Actions (new and continued):
- We will continue investigating how to add the master data requirements from NBM ("ECP endpoint", "EDX service" and "Allowed email domains: string")
- Jan (SE) will make a first draft proposal for a new communication (ContactPoint) class covering the needs from Elhub and NBM master data.
- Jan (SE) will find descriptions for the Swedish confirm and reject Request change of supplier.
- Ove will add the association from AccountingPoint_MarketParticipant to ContactPoint.

18   Review of documents from CIM WG subgroups and IEC groups

Background: At the NMEG meeting August 2020 it was agreed that NMEG needs to be more proactive regarding commenting on new ENTSO-E and IEC documents. Hence it is added a fixed item on the NMEG agenda for review of documents from CIM WG subgroups and IEC groups that is of interest for the Nordic market.

References (links):
What to decide,
discuss or inform: Review of documents from CIM WG subgroups that is of interest for the Nordic market.

18.1   Prepare Nordic positions before coming CIM WG meetings

There are no more CIM WG meetings before the autumn, hence the item was postponed.

19   Information (if any)

19.1   How to implement the regulation 2023/1162 "on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data"

Jan (SE) informed that Svenska kraftnät is having a dialogue with the national regulator in Sweden on how to implement the regulation 2023/1162 "on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data".

Jan (SE) presented a draft description for Sweden where they don't have a datahub assisting in this.

The draft ENTSO-E implementation guide on "on interoperability requirements and non-discriminatory and transparent procedures for access to metering and consumption data" is currently being commented by JWG.

20   Next meetings

NMEG:
- Wednesday June 19th, 10:00 – 14:00, GoToMeeting
- Tuesday September 3rd and Wednesday September 4th at Statnett's offices Oslo
    1) Svein (Statnett) will join to discuss CIM modelling of datahub databases, such as making a CIM version of the Elhub Information Model (EIM).

NTC:
- Monday June 10th, 10:00 – 11:30
- Monday June 17th, 10:00 – 11:30

21   AOB

No items

Appendix A   Overview of Nordic memberships in international standardisation bodies

Name	Member of
Anne Stine	NMEG
Christian	NMEG
Edel (SE)	DIA, TF3
Fedder	NMEG, CIM WG, IEC/WG16, CSSG, EEAT, ENTSO-E CIM tools, CIO/LIO
Jan (DK)	DIA, NMEG, IEC/WG16, TF2, TF3, DSS/557
Jan (SE)	DIA, NMEG, IEC/WG16+14, ESMP, TK57, TF2, TF3
Jon-Egil	DIA, NMEG, CIM WG, IEC/WG16, ESMP, CCC, CIO/LIO, NK57, TPC, TF3
Mario (NO)	DIA, NMEG, NK57, TF2
Oscar	CIO/LIO, CIM WG, TK57
Ove	NMEG, IEC/WG16, NK57, (TF3)
Svein (NO)	IEC/WG14+13, CGMES
Teemu H (FI)	NMEG, CIM WG, CIO/LIO
Teemu K (FI)	DIA, NMEG, TF2

Abbreviations:

CCC	Coordinated Capacity Calculation (project under CIM WG)
CGMES	Common Grid Model Exchange Standard (subgroup under CIM WG)
CIO/LIO	Central Issuing Office / Local Issuing Office
CSSG	Communication Standards (subgroup under CIM WG)
Dc	ENTSO-E Digital committee
DIA	ENTSO-E WG Data Interoperability & Access
DS S-557	Danish national IEC committee
EEAT	ENTSO-E Enterprise Architecture Team (subgroup under Dc)
ESMP	European Style Market Profile (subgroup under CIM WG)
MC	ENTSO-E Market Committee
MIT	Market Integration and Transparency (subgroup under MC)
NK57	Norsk Elektroteknisk Komite (Norsk Komité 57)
NEX	Nordic ECP/EDX Group
TF2	JWG, Task Force for the Development of the Implementing Regulations foreseen in Article 24 of the Directive (EU) 2019/944 and Reference Models (DIR)
TF3	JWG, Task Force for Data Interoperability Modelling (DIM)
TK57	Teknisk Kommitté 57
TPC	Transparency Platform Coordinators (subgroup under MIT)