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Pvm / Datum / Date: 16.10.2023

Ratkaisija / Beslutsfattare / Decision-maker

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Pvm / Datum / Date: 16.10.2023

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Fingrid Oyj
PL 503
00101 Helsinki

Päätös Fingrid Oyj:n toimittamaan ehdotukseen alueiden välisen kapasiteetin laskemiseksi tasehallinnan aikavälillä tasesähkön vaihtoa tai epätasapainon netotusprosessin toteuttamista varten Nordic kapasiteetin laskenta-alueella.

1 Asianosainen

Fingrid Oyj

2 Vireilletulo

16.12.2022

3 Ratkaisu

Energiavirasto vahvistaa Fingrid Oyj:n 16.8.2023 toimittaman ehdotuksen alueiden välisen kapasiteetin laskemiseksi tasehallinnan aikavälillä tasesähkön vaihtoa tai epätasapainon netotusprosessin toteuttamista varten Nordic kapasiteetin laskenta-alueella.

Päätös on voimassa toistaiseksi.

Päätöstä on noudatettava muutoksenhausta huolimatta.

4 Selostus asiasta

4.1 Fingridin toimittama ehdotus

Fingrid Oyj (jäljempänä myös Fingrid) toimitti 16.12.2022 Energiavirastoon vahvistettavaksi sähköjärjestelmän tasehallintaa koskevasta suuntaviivoista annetun Euroopan komission asetuksen (EU) 2017/2195 (jäljempänä myös Tasehallinnan suuntaviivat) 37 artiklan 3 kohdan mukaisen ehdotuksen menetelmästä alueiden välisen kapasiteetin laskemiseksi tasehallinnan aikavälillä tasesähkön vaihtoa tai epätasapainon netotusprosessin toteuttamista varten Nordic kapasiteetin laskenta-alueella.

Tasehallinnan suuntaviivojen 37 artiklan 3 kohdan mukaisesti Fingrid toimitti ehdotuksen viimeistään viiden vuoden kuluttua saman asetuksen tasehallinnan suuntaviivojen voimaantulosta.



4.2 Ehdotuksen käsittely

Tasehallinnan suuntaviivojen 5 artiklan 6 kohdan mukaan, jos ehtoja ja edellytyksiä tai menetelmiä koskevan ehdotuksen hyväksyminen edellyttää useamman kuin yhden sääntelyviranomaisten päätöstä, asianomaisten sääntelyviranomaisten on kuultava toisiaan, tehtävä tiivistä yhteistyötä ja koordinoitava toimiaan sopimukseen pääsemiseksi. Sääntelyviranomaisten on tehtävä ehdotettuja ehtoja ja edellytyksiä tai menetelmiä koskevat päätökset kuuden kuukauden kuluessa siitä, kun viimeinen asianosainen sääntelyviranomaisena on vastaanottanut ehdot ja edellytykset tai menetelmät.

Tasehallinnan suuntaviivojen 6 artiklan 1 kohdan mukaisesti sääntelyviranomaiset voivat pyytää siirtoverkonhaltijoita muuttamaan niiden toimittamia ehdotuksia. Saman kohdan mukaisesti asianomaisella siirtoverkonhaltijalla on täydennyspyynnön saatuaan kaksi kuukautta aikaa toimittaa muutettu ehdotus asianomaiselle sääntelyviranomaiselle.

Energiavirasto sekä muut Nordic kapasiteetin laskenta-alueen kansalliset sääntelyviranomaiset tulivat ehdotusta arvioituaan yhteiseen tulokseen siitä, että menetelmää täytyy muuttaa ennen kuin se voidaan hyväksyä. Energiavirasto pyysi 16.6.2023 lähettämällään muutospyyntöllä Fingridiä muuttamaan ehdotustaan kapasiteetin laskenta-alueen sääntelyviranomaisten yhteisesti sopiman muutospynnön mukaisesti.

Energiavirasto sekä muut Nordic kapasiteetin laskenta-alueen kansalliset sääntelyviranomaiset katsoivat, että ehdotettu menetelmä ei kuvaa riittävän selvästi sitä, miten se on yhtenäinen yhdenmukainen asetuksen (EU) 2015/1222 mukaisesti vahvistetun päivänsisäisellä aikavälillä sovellettavan alueiden välisen kapasiteetin laskentamenetelmän sekä eräiden muiden muutospyyntöissä kuvattujen oleellisten menetelmien kanssa. Energiavirasto pyysi muutospyyntössään myös selvennettävän terminologiaa, implementointiaikataulua sekä korjaamaan kirjoitusasua.

4.3 Muutettu ehdotus ja sen käsittely

Fingrid toimitti muutetun ehdotuksen Energiavirastolle 16.8.2023 tasehallinnan suuntaviivojen 6 artiklan 1 kohdan mukaisessa aikataulussa kahden kuukauden kuluessa sääntelyviranomaisten vaatimusten esittämisestä.

Energiavirasto sekä muut kapasiteetin laskenta-alueen kansalliset sääntelyviranomaiset arvioivat muutettua ehdotusta ja tulivat yhteiseen tulokseen siitä, että ehdotus täyttää muutospynnön vaatimukset.

5 Energiaviraston toimivalta

Euroopan parlamentin ja neuvoston direktiivi 2019/944 sähkön sisämarkkinoita koskevista yhteisistä säännöistä ja direktiivin 2012/27/EU muuttamisesta 57 artiklan mukaan kunkin jäsenvaltion on nimettävä yksi kansallinen sääntelyviranomaisena kansallisella tasolla.

Lain Energiavirastosta (870/2013) 1 §:n 2 momentin mukaan Energiavirasto hoitaa kansalliselle sääntelyviranomaiselle kuuluvat tehtävät, joista säädetään:



3) sähkön sisämarkkinoita koskevista yhteisistä säännöistä ja direktiivin 2003/54/EY kumoamisesta annetun Euroopan parlamentin ja neuvoston direktiivin 2009/72/EY, jäljempänä sähkömarkkinadirektiivi, nojalla annetuissa, suuntaviivoja koskevissa komission asetuksissa tai päätöksissä.

6 Asiaan liittyvä lainsäädäntö

6.1 Komission asetukset (EU) 2017/2195 sähköjärjestelmän tasehallintaa koskevista suuntaviivoista

Tasehallinnan suuntaviivojen 3 artiklan mukaan:

” 1. Tämän asetuksen tavoitteena on

- a) edistää toimivaa kilpailua, syrjimättömyyttä ja läpinäkyvyyttä tasehallintamarkkinoilla;
- b) parantaa tasehallinnan tehokkuutta samoin kuin eurooppalaisten ja kansalaisten tasehallintamarkkinoiden tehokkuutta;
- c) yhdistää tasehallintamarkkinat ja edistää mahdollisuuksia tasehallintapalvelujen kauppaan ja parantaa samalla käyttövarmuutta;
- d) edistää Euroopan sähkönsiirtoverkon ja sähköalan tehokasta toimintaa ja kehittämistä pitkällä aikavälillä ja helpottaa samalla vuorokausimarkkinoiden, päivänsisäisten markkinoiden ja tasehallintamarkkinoiden tehokasta ja jatkuvaa toimintaa;
- e) varmistaa, että tasepalvelujen hankinta tapahtuu tasapuolisesti, objektiivisesti, läpinäkyvästi ja markkinapohjaisesti, siinä ei aiheuteta perusteettomia esteitä uusille tulokkaille ja se edistää tasehallintamarkkinoiden likviditeettiä ja ehkäisee samalla kohtuuttomia vääristymiä sähkön sisämarkkinoilla;
- f) helpottaa kysyntäjouston osallistumista, mukaan lukien yhteenliittymät ja energian varastointi, ja varmistaa samalla, että ne kilpailevat tasapuolisesti muiden tasepalvelujen kanssa ja tarvittaessa toimivat itsenäisesti yhtä kulutuslaitosta palvellessaan;
- g) helpottaa uusiutuvien energialähteiden osallistumista ja tukea uusiutuviin energialähteisiin perustuvan tuotannon osuuden kasvattamista koskevan Euroopan unionin tavoitteen saavuttamista.”

Tasehallinnan suuntaviivojen 5 artiklan mukaan:

”3. Seuraavia ehtoja ja edellytyksiä tai menetelmiä koskeville ehdotuksille tarvitaan asianomaisen alueen kaikkien sääntelyviranomaisten hyväksyntä:”

”f) 37 artiklan 3 kohdan mukainen alueiden välisen kapasiteetin laskentamenetelmä kullekin kapasiteetin laskenta-alueelle;”

5. Ehtoja ja edellytyksiä tai menetelmiä koskevaan ehdotukseen on sisällyttävä ehdotettu täytäntöönpanoaikataulu ja kuvaus niiden odotetuista vaikutuksista tämän asetuksen tavoitteisiin. Täytäntöönpanoaikataulu saa olla enintään 12 kuukautta



asianomaisten sääntelyviranomaisten hyväksynnästä, paitsi jos kaikki asianomaiset sääntelyviranomaiset sopivat täytäntöönpanoaikataulun pidentämisestä tai jos tässä asetuksessa vahvistetaan erilaisia aikatauluja. Ehtoja ja edellytyksiä tai menetelmiä koskevat ehdotukset, joille tarvitaan useiden tai kaikkien sääntelyviranomaisten hyväksyntä, on toimitettava virastolle samaan aikaan kuin ne annetaan sääntelyviranomaisten hyväksyttäväksi. Viraston on asianomaisten sääntelyviranomaisten pyynnöstä annettava lausunto näistä ehtoja ja edellytyksiä tai menetelmiä koskevista ehdotuksista kolmen kuukauden kuluessa.

6. Jos ehtoja ja edellytyksiä tai menetelmiä koskevan ehdotuksen hyväksyminen edellyttää useamman kuin yhden sääntelyviranomaisten päätöstä, asianomaisten sääntelyviranomaisten on kuultava toisiaan, tehtävä tiivistä yhteistyötä ja koordinoitava toimiaan sopimukseen pääsemiseksi. Jos virasto antaa lausunnon, asianomaisten sääntelyviranomaisten on otettava se huomioon. Sääntelyviranomaisten on tehtävä 2 ja 3 kohdan mukaisesti ehdotettuja ehtoja ja edellytyksiä tai menetelmiä koskevat päätökset kuuden kuukauden kuluessa siitä, kun asianomainen sääntelyviranomainen tai, soveltuviissa tapauksissa, viimeinen asianomainen sääntelyviranomainen on vastaanottanut ehdot ja edellytykset tai menetelmät.

Tasehallinnan suuntaviivojen 6 artiklan mukaan:

”1. Jos yksi tai useampi direktiivin 2009/72/EY 37¹ artiklan mukainen sääntelyviranomainen vaatii 5 artiklan 2, 3 ja 4 kohdan mukaisesti toimitettujen ehtojen ja edellytysten tai menetelmien muuttamista ennen hyväksymistä, asianomaisten siirtoverkonhaltijoiden on esitettävä hyväksyttäväksi ehdotus muutetuista ehdoista ja edellytyksistä tai menetelmistä kahden kuukauden kuluessa asianomaisten sääntelyviranomaisten vaatimuksen esittämisestä. Asianomaisten sääntelyviranomaisten on päätettävä muutetuista ehdoista ja edellytyksistä tai menetelmistä kahden kuukauden kuluessa niiden esittämisestä.”

Tasehallinnan suuntaviivojen 37 artiklan mukaan:

” 3. Kapasiteetin laskenta-alueen kaikkien siirtoverkonhaltijoiden on viimeistään viiden vuoden kuluttua tämän asetuksen voimaantulosta laadittava menetelmä alueiden välisen kapasiteetin laskemiseksi tasehallinnan aikavälillä tasesähkön vaihtoa tai epätasapainon netotusprosessin toteuttamista varten. Menetelmässä on vältettävä markkinavääristymiä ja sen on oltava yhdenmukainen asetuksen (EU) 2015/1222 mukaisesti vahvistetun päivänsisäisellä aikavälillä sovellettavan alueiden välisen kapasiteetin laskentamenetelmän kanssa.”

7 Perustelut

Fingrid Oyj toimitti muutetun ehdotuksen menetelmästä alueiden välisen kapasiteetin laskemiseksi tasehallinnan aikavälillä tasesähkön vaihtoa tai epätasapainon netotusprosessin toteuttamista varten Nordic kapasiteetin laskenta-alueella 16.8.2023.

¹ 2009/72/EY on korvattu direktiivillä 2019/944, joka astui voimaan 4.7.2019.



Tasehallinnan suuntaviivojen mukaan, jos ehtoja ja edellytyksiä tai menetelmiä koskevan ehdotuksen hyväksyminen edellyttää useamman kuin yhden sääntelyviranomaisten päätöstä, toimivaltaisten sääntelyviranomaisten on kuultava toisiaan, tehtävä tiivistä yhteistyötä ja koordinoitava toimiaan sopimukseen pääsemiseksi. Energiavirasto on tätä päätöstä valmisteltaessa tehnyt tiivistä yhteistyötä ja koordinoinut toimiaan muiden Nordic kapasiteetin laskenta-alueen toimivaltaisten sääntelyviranomaisten kanssa.

Energiaviraston päätös noudattaa alueen sääntelyviranomaisten yhteisesti sopimaa linjaa, joka on esitetty tämän päätöksen liitteinä olevassa dokumentissa "Agreement between the National Regulatory Authorities of the Nordic Capacity Calculation Region to approve: Energinet, Fingrid, Statnett and Svenska Kraftnät Proposal for a Capacity Calculation Methodology for the Balancing Timeframe for the Nordic Capacity Calculation Region in Accordance with Article 37(3) of Commission Regulation (EU) 2017/2195 of 23 November 2017 Establishing a Guideline on Electricity Balancing, 16 October 2023".

Energiavirasto katsoo, että Fingridin 16.8.2023 toimittama muutettu ehdotus täyttää alueen sääntelyviranomaisten yhteisessä muutospyyntöissä edellytetyt vaatimukset ja on tasehallinnan suuntaviivojen 3 artiklan tavoitteiden mukainen. Energiavirasto katsoo myös, että ehdotus on saman asetuksen 37 artiklan vaatimusten mukaisesti yhdenmukainen asetuksen (EU) 2015/1222 mukaisesti vahvistetun päivänsäisellä aikavälillä sovellettavan alueiden välisen kapasiteetin laskentamenetelmän kanssa ja välttää markkinavääristymiä.

Fingrid toimitti ehdotuksen sekä muutetun ehdotuksen tasehallinnan suuntaviivojen mukaisessa aikataulussa, ja muutettu ehdotus kuvaa kapasiteetin laskentaprosessin vaadittavalla tarkkuudella. Fingridin ehdotus täyttää siten tasehallinnan suuntaviivojen vaatimukset ja tavoitteet ja on hyväksyttävissä.

8 Sovelletut säännökset

Komission asetus (EU) 2017/2195 artiklat 3, 5, 6, 37

Laki sähkö- ja maakaasumarkkinoiden valvonnasta (590/2013) 36 §, 38 §

9 Muutoksenhaku

Muutoksenhakua koskeva ohjeistus liitteenä.

Liitteet Valitusosoitus Markkinaoikeuteen

Agreement between the National Regulatory Authorities of the Nordic Capacity Calculation Region to approve: Energinet, Fingrid, Statnett and Svenska Kraftnät Proposal for a Capacity Calculation Methodology for the Balancing Timeframe for the Nordic Capacity Calculation Region in Accordance with Article 37(3) of Commission Regulation (EU) 2017/2195 of 23 November 2017 Establishing a Guideline on Electricity Balancing, 16 October 2023



Proposal for a Capacity Calculation Methodology for the balancing timeframe for the Nordic Capacity Calculation Region in accordance with Article 37(3) of Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing, December 16, 2022

Jakelu Fingrid Oyj

Tiedoksi



VALITUSOSOITUS

Muutoksenhakuoikeus

Energiaviraston antamaan päätökseen saa hakea muutosta valittamalla siinä järjestyksessä kuin hallintolainkäyttölaissa (586/1996) säädetään. Valituskelpoisella päätöksellä tarkoitetaan toimenpidettä, jolla asia on ratkaistu tai jätetty tutkimatta.

Valitusoikeus on sillä, johon päätös on kohdistettu tai jonka oikeuteen, velvollisuuteen tai etuun päätös välittömästi vaikuttaa.

Valitusviranomainen

Valitusviranomainen Energiaviraston päätökseen on markkinaoikeus.

Valitusaika

Valitus on tehtävä 30 päivän kuluessa päätöksen tiedoksisaannista. Valitusaikaa laskettaessa tiedoksisaantipäivää ei oteta lukuun. Jos määräajan viimeinen päivä on pyhäpäivä, lauantai, itsenäisyyspäivä, vapunpäivä, jouluaatto tai juhannusaatto, määräaika jatkuu vielä seuraavan arkipäivän.

Valituskirjelmän sisältö

Valitus tehdään kirjallisesti. Markkinaoikeudelle osoitetussa valituskirjelmässä on ilmoitettava:

- valittajan nimi ja kotikunta
- postiosoite ja puhelinnumero, joihin asiaa koskevat ilmoitukset valittajalle voidaan toimittaa
- päätös, johon haetaan muutosta;
- miltä kohdin päätökseen haetaan muutosta ja mitä muutoksia siihen vaaditaan tehtäväksi; sekä
- perusteet, joilla muutosta vaaditaan.

Valittajan, laillisen edustajan tai asiamiehen on allekirjoitettava valituskirjelmä. Jos valittajan puhevaltaa käyttää hänen laillinen edustajansa tai asiamiehensä tai jos valituksen laatijana on muu henkilö, on valituskirjelmässä ilmoitettava myös tämän nimi ja kotikunta.

Valituskirjelmän liitteet

Valituskirjelmään on liitettävä:

- muutoksenhaun kohteena oleva päätös alkuperäisenä tai jäljennöksenä;
- todistus siitä, minä päivänä päätös on annettu tiedoksi tai muu selvitys valitusajan alkamisajankohdasta; sekä



- asiakirjat, joihin valittaja vetoaa vaatimuksensa tueksi, jollei niitä ole jo aikaisemmin toimitettu Energiavirastolle tai markkinaoikeudelle.

Asiamiehen on liitettävä valituskirjelmään valtakirja, jollei päämies ole valtuuttanut häntä suullisesti valitusviranomaisessa. Asianajajan ja yleisen oikeusavustajan tulee esittää valtakirja ainoastaan, jos valitusviranomainen niin määrää.

Valituskirjelmän toimittaminen valitusviranomaiselle

Valituskirjelmä on toimitettava valitusajan kuluessa markkinaoikeuteen, jonka osoite on:

Markkinaoikeus
Radanrakentajantie 5
00520 HELSINKI
Faksi: 029 56 43314
Sähköposti: markkinaoikeus@oikeus.fi

Valituskirjelmä voidaan toimittaa valitusviranomaiselle myös postitse.

Valituksen voi tehdä myös hallinto- ja erityistuomioistuinten asiointipalvelussa osoitteessa <https://asiointi2.oikeus.fi/hallintotuomioistuimet>.

Kun valituskirjelmä toimitetaan hallinto- ja erityistuomioistuinten asiointipalvelun kautta, liitteet voi toimittaa skannattuna asiointipalvelussa tai kirjeitse. Kirjeitse toimitettaessa mainitse asiasta asiointipalvelun Viesti-kentässä.



OHJE MAKSUA KOSKEVAAN MUUTOKSENHAKUUN

Valtion maksuperustelain (150/1992) 11 b §:n mukaan maksuvelvollinen, joka katsoo, että 6 §:ssä tarkoitettusta julkisoikeudellisesta suoritteesta määrätyn maksun määräämisessä on tapahtunut virhe, voi vaatia siihen oikaisua maksun määränneeltä viranomaiselta kuuden kuukauden kuluessa maksun määräämisestä.



**Agreement between the National Regulatory Authorities
of the Nordic Capacity Calculation Region to approve:**

**ENERGINET, FINGRID, STATNETT AND SVENSKA
KRAFTNÄT PROPOSAL FOR A CAPACITY
CALCULATION METHODOLOGY FOR THE
BALANCING TIMEFRAME FOR THE NORDIC
CAPACITY CALCULATION REGION IN
ACCORDANCE WITH ARTICLE 37(3) OF
COMMISSION REGULATION (EU) 2017/2195 OF 23
NOVEMBER 2017 ESTABLISHING A GUIDELINE ON
ELECTRICITY BALANCING**

16 October 2023

I. Introduction and legal context

On 16 August 2023 Energimarknadsinspektionen (Ei), Energivistario (EV), Forsyningstilsynet (DUR) and Reguleringsmyndigheten for Energi (NVE-RME) (hereafter "Nordic NRAs") received by Energinet, Fingrid and Svenska kraftnät and Statnett (hereafter "Nordic TSOs") a proposal for a capacity calculation methodology for the balancing timeframe for Capacity Calculation Region Nordic (hereafter "CCR Nordic"). The proposal corresponds to Article 37(3) of Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (hereafter "EB regulation").

The Nordic TSOs proposal is a response to the Nordic NRAs request for amendment of 16 June 2023.

Article 37(3) of the EB Regulation states that all TSOs of a CCR shall develop a methodology for cross-zonal capacity calculation within the balancing timeframe for the exchange of balancing energy or for operating the imbalance netting process. Such methodology shall avoid market distortions and shall be consistent with the cross-zonal capacity calculation methodology applied in the intraday timeframe established under Regulation (EU) 2015/1222 establishing a guideline on capacity allocation and congestion management (hereafter "CACM Regulation").

The Nordic TSOs' proposal - dated 16 December 2022 - was received by the last NRA on 16 December 2022. Following from Article 5(6) of the EB Regulation, the relevant NRAs have six months from the receipt of the proposal to make a decision. On 16 June 2023, the Nordic NRAs reached an agreement to request an amendment of the Nordic TSOs' proposal. The Nordic TSOs submitted a revised proposal on 16 August 2023.

This position paper is an agreement between the Nordic NRAs. It reviews the amended proposal for a capacity calculation methodology for the balancing timeframe for CCR Nordic (hereafter "Nordic BT CCM"). The Nordic NRAs find that the points raised in their request for amendments have been taken into consideration and therefore the NRAs can approve the amended proposal.

This position paper of Nordic NRAs shall provide evidence that a decision on the proposal does not need to be adopted by ACER pursuant to Article 5(7) of the EB Regulation at this stage.

The legal provisions that lie at the basis of the TSOs' proposal and the Nordic NRAs' request for amendment as well as approval can be found in Articles 4, 5, 6, and 37 of the EB Regulation.

II. The Nordic TSOs original proposal for the Nordic BT CCM

The proposal establishes the coordination and harmonisation of Nordic BT CCM pursuant to Article 37(3) of the EB Regulation.

The proposal builds on the intraday capacity calculation methodology in the day-ahead and intraday capacity calculation methodology for CCR Nordic (hereafter “Nordic DA+ID CCM”) according to Article 20(2) of the CACM Regulation, of which the most recent version was approved by the Nordic NRAs on 14 October 2020.

Article 6(5)(a) and (b) of the proposal allows Nordic TSOs to apply certain allocation constraints, i.e., ramping rates between market time units (hereafter “MTUs”) and implicit loss factors.

Article 6(7), 1st subparagraph, of the proposal refers to Article 176 of the SO Regulation, and allows Nordic TSOs to apply ramping limitations as an allocation constraint.

Article 6(7), 2nd subparagraph, (a) to (b), of the proposal, which does not contain specific legal references, allows Nordic TSOs to apply certain allocation constraints, i.e., limitations of amount of polarity reversals (zero-crossings) on HVDC links for a given period of time and minimum flow on HVDC links.

Article 10 of the proposal is a provision on the calculation of cross-zonal capacity for the balancing timeframe.

Article 17 of the proposal is a provision on the Nordic TSOs’ publication of data.

Article 18(2) of the proposal implies that Nordic TSOs shall implement Nordic BT CCM,

- no later than 12 months after the approval by the relevant Nordic NRAs,
- and at the earliest 6 months after the implementation of the long-term capacity calculation methodology for CCR Nordic (hereafter “Nordic LT CCM”) pursuant to Article 24 in Annex I of ACER Decision no 16/2019 of 30 October 2019,
- but only when the following conditions have been met:

(a) DA flowbased (hereafter “FB”) and ID Available Transmission Capacity (hereafter “ATCE”) have been implemented and the Nordic TSOs apply balancing platforms and these platforms are not capable to handle the FB

parameters: intraday left-over capacities are shared with the balancing platforms as ATCE values; or

(b) DA FB and ID FB have been implemented, and the Nordic TSOs apply balancing platforms and these platforms are capable to handle the FB parameters: FB parameters are shared with the balancing platforms.

III. The Nordic NRAs request for amendment to the Nordic TSOs original proposal for the Nordic BT CCM

The Nordic NRAs requested the Nordic TSOs to amend the initial proposal pursuant to Article 6(1) of the EB Regulation.

The request for amendments included some editorial changes, as well as the following comments to the content:

General comments

Nordic BT CCM, coherent with Nordic ID CCM

According to Article 37(3) of the EB Regulation, a regional BT CCM should be consistent with a regional ID CCM. Nordic NRAs observe that some Articles in the Nordic TSOs' initial BT CCM proposal, related to Nordic ID CCM, may require subsequent amendments. Nordic NRAs expect to initiate a procedure to amend Nordic ID CCM, and subsequently to amend Nordic BT CCM in consequence of an amended Nordic ID CCM.

Article 6 of BT CCM, coherent with EB Regulation methodologies and SO Regulation methodologies

Nordic TSOs propose to apply, on Nordic HVDC interconnections and HVDC links, a set of allocation constraints as specified in Article 6(5)(a), in Article 6(7), 1st subparagraph, and in Article 6(7), 2nd subparagraph, (a) and (b), of Nordic TSOs' initial BT CCM proposal. The legal references for the application of allocation constraints for the balancing timeframe should be clarified and aligned between the relevant methodologies under SO Regulation and EB Regulation, hereunder the BT CCM.

Nordic NRAs have already initiated a dialogue with Nordic TSOs on how these allocations constraints could be taken into account when allocating cross-zonal capacity for the exchange of balancing capacity in and out of Synchronous Area (hereafter "SA") Nordic, and whether there would be a need to amend the CCR Nordic methodology pursuant to Article 41 of the EB Regulation, currently following from ACER Decision 22/2020.

In addition, Nordic NRAs observe that the Article 6(5)(a) of Nordic TSOs' initial BT CCM proposal applies to ramping rates between MTUs. Nordic NRAs also observe that ramping in the day-ahead timeframe is between MTUs, whereas ramping in the balancing timeframe might technically and consequently in practice be within MTUs.

Article 18

Nordic NRAs view that the proposed implementation timeline is not feasible in practice. Article 5(5) of the EB Regulation states, *"The implementation timescale shall not be longer than 12 months after the approval by the relevant regulatory authorities, except where all relevant regulatory authorities agree to extend the implementation timescale or where different timescales are set out in this Regulation."*

Nordic NRAs view that 12 months is probably not enough in practice. Thus, Nordic NRAs introduce an example of how Article 18(2) of the proposal could be rewritten to provide for an extended implementation timeline. It is up to Nordic TSOs to examine, justify, and propose the amendments for Nordic NRAs' approval.

However, if Nordic TSOs view that the implementation timeline is feasible with having 12 months, as in the initial proposal, Nordic NRAs favor that approach. See more detailed description under *"Specific comments, Article 18(2)"* of this RfA.

Specific comments

Article 6

Nordic NRAs request Nordic TSOs to amend Article 6 of Nordic TSOs' initial BT CCM proposal. Nordic NRAs understand that some allocation constraints must be defined and agreed on a synchronous area level, while other allocation constraints might differ between individual HVDC-interconnectors and should not be imposed unnecessarily on all interconnectors. Initially, it will be up to Nordic TSOs to word the requested amendments in view of those intentions.

Nordic TSOs should take into account that Nordic TSOs' proposals for SA Nordic methodologies according to Articles 137(3) to (4), 176(1)/178(1), and 177(1)/179(1) of the SO Regulation are not yet approved, and those SO Regulation methodologies could be amended in the future. The formulation in Nordic BT CCM should therefore be general enough to ensure compliance with the content in any approved version of the SO Regulation

methodologies, also in case of future amendments of the SO Regulation methodologies. This could be achieved by including the legal references to the methodologies and having the text in the BT CCM as general as possible to ensure compliance with any chosen formulations in the SO Regulation methodologies.

Nordic NRAs also observe that legal references for applying the kinds of allocation constraints in Article 6(7), 2nd subparagraph, (a) and (b), in Nordic TSOs' initial BT CCM proposal are not clearly specified, and Nordic TSOs should amend the provisions to include the concrete legal references for Nordic TSOs' application. Or as an alternative, if such legal references don't exist, define these allocation constraints clearly in the BT CCM.

Clarification of scope of Article 6(5)(a), to apply in balancing timeframe, ramping rates between MTUs

Cf. Nordic NRAs' observations under General comments, Nordic NRAs request Nordic TSOs to clarify the scope of Article 6(5)(a) in Nordic TSOs' initial BT CCM proposal. Implying notably clarifications, whether ramping rates will apply solely between MTUs in the balancing timeframe, and or if ramping rates on balancing exchanges will apply within MTUs.

Article 10(a)

Nordic NRAs refer to Article 10 of Nordic TSOs' initial BT CCM proposal on calculating cross-zonal capacity.

Article 10(a) says:

"The single intraday coupling (hereafter referred to as "SIDC") shall send the latest available AAC in the intraday timeframe to the CCC."

Nordic NRAs have asked Nordic TSOs, why Nordic TSOs use the term "latest available AAC in the intraday timeframe", and not "latest available AAC after IDCZGCT", or similar formulations for this provision. Nordic TSOs replied that "timeframe" rather than "IDCZGCT" was used to not delay sending or to hinder retrieving data prior to IDCZGCT if there are some issues with XBID, as time is limited to perform all tasks and to deliver CZC to the balancing platforms.

Nordic NRAs view that if Nordic TSOs need to have fallback procedures to handle potential issues with XBID close to IDCZGCT, this should be described in Article 16 of Nordic BT CCM. Nordic TSOs should note that Article 37(3) in the EB Regulation state that Nordic TSOs shall develop a methodology for cross-zonal capacity calculation that is within the balancing timeframe.

Nordic NRAs request Article 10(a) of Nordic TSOs' initial BT CCM proposal to be amended to be in line with the above-mentioned, and proposals for capacity calculation methodologies for the balancing timeframe of other CCRs. Other capacity calculation methodology proposals for the balancing timeframe use terms like "latest AAC for each MTU after IDCZGCT", "AAC available after IDCZGCT", or similar formulations when describing the process of capacity calculation in the balancing timeframe.

Article 17

Nordic NRAs refer to Article 17 of Nordic TSOs' initial BT CCM proposal on publication of data.

Article 17(2) says:

"The TSOs should at least publish the following data items (in addition to the data items and definitions of Commission Regulation (EU) No 543/2013 on submission and publication of data in electricity):

(a) final FB parameters for each balancing market time unit pursuant to Article 14; and

(b) in case of application of transitional solution pursuant to Article 15 for each balancing market time unit the ATCE values for all bidding zone borders in Nordic CCR calculated pursuant to Article 15;"

Nordic NRAs request Nordic TSOs to amend Article 17 of the BT CCM proposal, to include publication of, results of TSOs' reviews and updates of the application of allocation constraints pursuant to Article 6(4), fallback capacities pursuant to Article 16, and information on individual validation reductions pursuant to Article 14.

Information on individual validation reductions should be aligned with the specifics according to Article 25 of the Nordic DA+ID CCM.

Article 18(2):

Nordic NRAs view that the proposed implementation timeline in Article 18(2) of Nordic TSOs' initial BT CCM proposal is not feasible, considering all of the dependencies in the Nordic TSOs' initial proposal. Thus, Nordic NRAs request Nordic TSOs to amend the implementation timeline to represent the earliest feasible implementation timeline for Nordic BT CCM in view not to having conflicts with the dependencies introduced.

One possible way to rewrite Article 18(2), could be as follows:

“2. The TSOs shall implement this methodology no later than x months after the approval by the relevant regulatory authorities and if at least one of the following conditions have been met:

(a) DA FB and ID ATCE have been implemented and TSOs of the Nordic CCR apply balancing platforms and these platforms are not capable to handle the FB parameters: intraday left-over capacities are shared with the balancing platforms as ATCE values;

(b) DA FB and ID FB have been implemented and TSOs of the Nordic CCR apply balancing platforms and these platforms are capable to handle the FB parameters: FB parameters are shared with the balancing platforms.”

Where “x” refers to the number of months. This number is up to Nordic TSOs to propose if the above-mentioned requirements are kept. Nordic TSOs should also provide grounds for proposed number of months.

Nordic TSOs may propose another wording of Article 18(2) in an amended proposal for Nordic BT CCM. Regardless, Nordic NRAs expect Nordic TSOs to explain the foreseen implementation process and Nordic TSOs expectations for that process. Regardless, Nordic NRAs view the wording of Article 18(2), *“but only when the following conditions have been met”*, as confusing. Nordic NRAs view it should be clear that either 2(a) or 2(b) is enough to fill the requirements. The proposed wording can be interpreted as both 2(a) and 2(b) are to be fulfilled for the implementation to proceed. Nordic NRAs request Nordic TSOs to replace the wording *“but only when the following conditions have been met:”* for example with, *“and if at least one of the following conditions have been met”*. It is up to Nordic TSOs how this is written, as long as the intention is kept.

IV. The Nordic TSOs revised proposal for the Nordic BT CCM

Besides typological improvements, the main changes in the revised proposal include:

- Definitions such as polarity reversal, intraday cross-zonal gate closure time and ramping rates have been added in Article 2 on definitions and interpretations.
- Article 6 is restructured, and ramping rates have been taken into consideration.
- Article 10 now refers specifically to the intraday cross-zonal gate closure time.

- Additional items have been added in Article 17 on data publication concerning allocation constraints, fallback FB domains or ATCE values, and reductions in individual cross-zonal capacities.
- Article 18 is modified to clarify that the methodology will be implemented in three consecutive steps.

V. Conclusions

The Nordic NRAs welcome the submitted methodology proposal. The Nordic NRAs agree that the comments raised in the request for amendment have been fulfilled in the new submission by the Nordic TSOs, and the Nordic BT CCM could, therefore, be approved by each Nordic NRA by October 16, 2023.

Proposal for a Capacity Calculation Methodology for the
balancing timeframe for the Nordic Capacity Calculation
Region in accordance with Article 37(3) of Commission
Regulation (EU) 2017/2195 of 23 November 2017
establishing a guideline on electricity balancing

August 16, 2023

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All TSOs of the Nordic Capacity Calculation Region, taking into account the following:

Whereas

- (1) This document describes a common methodology for all Transmission System Operators (hereafter referred to as “TSOs”) of the Nordic Capacity Calculation Region (hereafter referred to as “Nordic CCR”) as defined in accordance with Article 37(3) of Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (hereafter referred to as the “EB Regulation”).
- (2) This capacity calculation methodology (hereafter referred to as the “CCM”) takes into account the general principles, goals and other methodologies set in the EB Regulation, Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management (hereafter referred to as the “CACM Regulation”), Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereafter referred to as "SO Regulation") and Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity (hereafter referred to as “Regulation (EU) 2019/943”).
- (3) The goal of this CCM is the coordination and harmonisation of capacity calculation in the balancing timeframe.
- (4) According to Article 37(3) of the EB Regulation, this CCM shall be consistent with the capacity calculation methodology applied in the intraday timeframe for the Nordic CCR established under the CACM Regulation. Therefore, this CCM will follow the principle established under the CACM Regulation.
- (5) The CCM - by building on the intraday CCM fundamentals as described in the “Nordic Capacity Calculation Region capacity calculation methodology in accordance with Article 20(2) of Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management” approved by Nordic regulatory authorities and dated 14 October 2020 (hereafter referred to as “Nordic ID CCM”) - contributes to the general objectives of the EB Regulation and the CACM Regulation to the benefit of market participants and electricity end consumers.
- (6) The CCM makes use of the Nordic capacity calculation process implemented for the intraday timeframe. The flow-based (hereafter referred to as the “FB”) parameters computed for the intraday timeframe, by using dedicated intraday common grid models (hereafter referred to as the “CGMs”), will be updated for the balancing timeframe, by taking into account the already-allocated capacities from the intraday and balancing timeframes and transmission capacity already reserved for the balancing timeframe. As such, the left-over capacity – being the capacity remaining after the intraday timeframe with the addition of capacity already reserved for the balancing timeframe – can be provided to the balancing timeframe for the exchange of balancing energy or for operating the imbalance netting process.
- (7) This CCM provides a transition period for the capacity calculation of cross-zonal capacity for the exchange of balancing energy: until the European platforms for the exchange of balancing energy from frequency restoration reserves with manual and automatic activation (MARI and Picasso platform) are able to support the allocation of cross-zonal capacity based on FB parameters, the coordinated capacity calculator (hereafter referred to as “CCC”) transforms the FB parameters

into available transmission capacity values on bidding zone borders of the Nordic CCR, by means of ATC Extraction (hereafter referred to as “ATCE”).

- (8) This CCM is based on the assumption that HVDC ramping restrictions are defined as allocation constraints and will be handled by the European balancing platforms and/or the capacity management function (hereafter referred to as “CMF”) of these European platforms.

SUBMIT THE FOLLOWING CCM TO ALL REGULATORY AUTHORITIES OF THE NORDIC CCR:

TITLE I General

Article 1 Subject matter and scope

1. The CCM is the common methodology of all TSOs in the Nordic CCR in accordance with Article 37(3) of the EB Regulation.
2. The CCM applies solely to the Nordic CCR as defined in accordance with Article 15 of the CACM Regulation.
3. The CCM covers the capacity calculation methodology for the balancing timeframe.

Article 2 Definitions and interpretation

1. For the purposes of the Proposal, the terms used shall have the meaning given to them in Article 2 of the Regulation (EU) 2019/943, Article 2 of the CACM Regulation, Article 3 of the SO Regulation, Article 2 of the EB Regulation, and Article 2 of Commission Regulation (EU) No 543/2013 of 14 June 2013 on submission and publication of data in electricity markets and amending Annex I to Regulation (EC) No 714/2009 of the European Parliament and of the Council (hereafter referred to as “Transparency Regulation”).
2. In addition, in this CCM, the following terms shall have the meaning below:
 1. ‘ATC’ means the available transmission capacity on bidding zone borders, which is the transmission capacity that remains available after the deduction of eventual previously allocated capacities and which respects the physical conditions of the transmission system;
 2. ‘CCC’ means the coordinated capacity calculator, as defined in Article 2(11) of the CACM Regulation, of the Nordic CCR, unless stated otherwise;
 3. ‘CCR’ means the capacity calculation region as defined in Article 2(3) of the CACM Regulation;
 4. ‘CGM’ means the common grid model as defined in Article 2(2) of the CACM Regulation and means a CGM established in accordance with the common grid model methodology, pursuant to Article 17 of the CACM Regulation;
 5. ‘CNE’ means a critical network element;
 6. ‘CNEC’ means a critical network element monitored under a contingency;
 7. ‘combined dynamic constraint’ means a limit on the sum of power flows on a set of network elements or partial flows on a set of network elements for the purpose to respect dynamic stability limits;

8. ' F_0 ' means the linear approximation of a flow in the reference net position on a CNEC or combined dynamic constraint in a situation without any cross-zonal exchanges;
9. ' F_{max} ' or ' F_{max} ' means the maximum flow on a CNEC or combined dynamic constraint;
10. ' F_{RA} ' means the flow for increasing the RAM on a CNEC or combined dynamic constraint due to RAs taken into account in capacity calculation;
11. ' F_{RM} ' means flow for reliability margin for all CNECs and combined dynamic constraints
12. ' F_{ref} ' means the reference flow on a CNEC or combined dynamic constraint;
13. 'GSK' means the generation shift key as defined in Article 2(12) of the CACM Regulation;
14. 'HVDC network element' means a high voltage direct current network element;
15. 'IDCZGCT' means Intraday cross-zonal gate closure time
16. 'IGM' means the individual grid model as defined in Article 2(1) of the CACM Regulation;
17. ' I_{max} ' means the maximum admissible current of a CNE or a CNEC;
18. 'Nordic CCR' means the Nordic capacity calculation region as determined pursuant to Article 15 of the CACM Regulation;
19. 'internal CNE' means a critical network element (CNE) that is located inside a bidding zone and that is limiting the amount of power that can be exchanged between bidding zones;
20. 'merging agent' means a party, which builds the CGM from IGMs sent by each TSO and sends the CGM to the CCC for capacity calculation;
21. 'NP' or ' NP ' means a net position of a bidding zone, which is the net value of generation and consumption in a bidding zone;
22. "polarity reversal" means change of power flow direction on a HVDC interconnector;
23. 'previously allocated cross-zonal capacities' means the capacities which have already been allocated;
24. 'PTDF' or ' $PTDF$ ' means a power transfer distribution factor;
25. 'RA' means a remedial action as defined in Article 2(13) of the CACM Regulation;
26. 'RAM' or ' RAM ' means a remaining available margin on a CNEC or a combined dynamic constraint;
27. 'reference net position' or 'reference exchange' means a position of a bidding zone or an exchange over HVDC interconnection assumed within the CGM;
28. 'reliability margin' or 'RM' means the reliability margin as defined in Article 2(14) of the CACM Regulation;
29. 'slack node' means the single reference node per synchronous area used for determination of the PTDF matrix, i.e. shifting the power infeed of generators up results in absorption of the power shift in the slack node. A slack node remains constant for each scenario;
30. 'zone-to-slack $PTDF$ ' means the PTDF of a commercial exchange between a bidding zone and the slack node;
31. 'zone-to-zone $PTDF$ ' means the PTDF of a commercial exchange between two bidding zones;
32. Ramping rate means the maximum flow changes on HVDC interconnections within a certain timeframe to ensure that the maximum flow change on HVDC interconnections is kept within the available balancing power reserves or within the technical limits of HVDC interconnections;

33. the notation x denotes a scalar;
34. the notation \vec{x} denotes a vector; and
35. the notation \mathbf{x} denotes a matrix.

1. In this CCM, unless the context requires otherwise:
 - (a) the singular indicates the plural and vice versa;
 - (b) any reference to the day-ahead or intraday calculation, day-ahead or intraday capacity calculation process or the day-ahead or intraday capacity calculation methodology shall mean a common day-ahead or intraday calculation, common day-ahead or intraday capacity calculation process and common day-ahead or intraday capacity calculation methodology respectively, which is applied by all TSOs in a common and coordinated way on all bidding zone borders of the Nordic CCR;
 - (c) the table of contents and the headings are inserted for convenience only and do not affect the interpretation of this CCM; and
 - (d) any reference to legislation, regulations, directives, orders, instruments, codes or any other enactment shall include any modifications, extensions or re-enactment of it when in force.
2. For the sake of clarity this CCM does not affect TSOs' right to delegate their task in accordance with the Article 13 of the EB Regulation and Article 81 of the CACM Regulation. In this CCM the reference to a TSO shall mean Transmission System Operator or to a third party, whom the TSO has delegated task(s) to, in accordance with the EB Regulation and CACM Regulation, where applicable. However, the delegating TSO shall remain responsible for ensuring compliance with the obligations under the EB Regulation and CACM Regulation.

TITLE 2

Description of capacity calculation input for balancing timeframe

Article 3

Methodology for determining reliability margin

The reliability margin shall be the reliability margin as determined in the intraday capacity calculation process and described in Article 3 of the Nordic ID CCM as follows:

1. The TSOs shall determine the reliability margin as follows:
 - (a) The reliability margin (hereafter referred to as "RM") is determined for AC grid elements only.
 - (b) A probability distribution of the deviation between the expected and realized (observed) power flows is determined at least annually for each AC CNEC and combined dynamic constraint, based on historical snapshots of the CGM for different market time units. The realized (observed) power flows for each CNEC and combined dynamic constraint are obtained from the snapshot, where also the potential contingencies associated with this CNEC and combined dynamic constraint are taken into account. The net positions from the snapshot are used with the FB parameters or in the CGM to compute the expected power flows. The differences between the realized and expected power flows (in MW) form the prediction error distribution for each CNEC and combined dynamic constraint. The prediction errors shall be fitted to a statistical distribution that minimizes the modelling error.
 - (c) The reliability margin value shall be calculated by deriving a value from the probability distribution based on the TSOs risk level value as defined in paragraph 5.

- (d) The unintended deviations of the physical electricity flows within a market time unit, caused by the adjustment of electricity flows within and between control areas, to maintain a constant frequency (frequency containment reserve), are not part of the reliability margin described in paragraphs 1(a) to (c) and need to be assessed separately (hereafter referred to as “FCR margin”). The final RM value is the sum of the RM value and the FCR margin; the TSO shall send this RM values as input data to the CCC.
2. The principles for calculating the probability distribution of the deviations between the expected power flows at the time of the capacity calculation and realized power flows in real time are as follows:
 - (a) The methodology for RM determination described in paragraphs 1(a) to (c) is applied on all CNECs and combined dynamic constraints; and
 - (b) Separate distributions are formed for capacities that are calculated based on CGMs for day-ahead, intraday and balancing capacity calculation timeframes.
3. The uncertainties covered by the RM values, described in the paragraph 1 originate from various elements, such as:
 - (a) Uncertainty in load forecast;
 - (b) Uncertainty in generation forecasts (generation dispatch, wind prognosis, etc.);
 - (c) Assumptions inherent in the generation shift key (hereafter referred to as “GSK”) strategy;
 - (d) Uncertainty in external trades to adjacent synchronous areas;
 - (e) Application of a linear grid model (with the power transfer distribution factors (hereafter referred to as the “PTDFs”)), constant voltage profile and reactive power;
 - (f) Topology changes due to e.g. unplanned outages of network elements;
 - (g) Internal trade in each bidding zone; and
 - (h) Grid model errors, assumptions and simplifications.
4. The margin caused by the activation of the frequency containment reserve (hereafter referred to as “FCR”) shall be modelled separately and added to the RM, pursuant to paragraph 1(d). The following approach shall be applied:
 - (a) The FCR power flow impact shall be computed for each CNEC and combined dynamic constraint based on historical information, forming FCR power flow distributions; and
 - (b) The FCR margin value for each CNEC and combined dynamic constraint shall be calculated by deriving a value from the probability distribution based on the TSOs risk level value as defined in paragraph 5.
5. The TSOs shall take into account the operational security limits, the power system uncertainties and the available RAs when determining the risk level for their CNECs and combined dynamic constraints to ensure the system security and efficient system operation. This risk level shall determine how the RM value and FCR margin value shall be derived from their probability distributions. The risk level is defined as the area (cumulative probability) right of the RM value and FCR margin value in their probability distribution. The TSOs shall use the predefined risk level of 95%.
6. The TSOs shall store the differences between the realized and expected flows in a database that allows the TSOs to make statistical analyses.
7. The probability distributions, RM values, and FCR margin values, shall be stored in a standardized data format for each CNEC and combined dynamic constraint. The RM value shall be defined and stored as an absolute value (in MW). It may be converted for comparison purposes to a percentage of the CNEC’s or combined dynamic constraint’s maximum flow (hereinafter referred to as “F_{max}”).

8. The TSOs shall perform the calculation of the RM regularly and at least once a year applying the latest information, for the same period of analysis for the RM and FCR margins, on the probability distribution of the deviations between expected power flows at the time of capacity calculation and realized power flows in real time.

Article 4

Methodology for determining operational security limits

The operational security limits considered and applied in the intraday capacity calculation process, and described in Article 4 of the Nordic ID CCM, are valid for the balancing timeframe as follows:

1. Each Nordic TSO shall provide to the CCC for each CNEC, intraday capacity calculation timeframe and each scenario the operational security limits, which are needed by the CCC to calculate the maximum flow on CNECs in accordance with Article 29(7)(c) of the CACM Regulation. For each of the operational security limit defined pursuant to paragraph 2, the concerned TSO shall specify the CNEC(s) to which these limits should be applied and translated into maximum flow on CNECs.
2. Each TSO shall apply the same operational security limits as in the operational security analysis. These limits shall be defined in accordance with Article 25 of the SO Regulation. The TSOs shall provide these operational security limits to the CCC in the following format describing a specific power system physical property:
 - (a) thermal limits shall be expressed in maximum admissible current (I_{max}) with the unit of Ampere;
 - (b) voltage limits shall be expressed in nominal voltage (per unit);
 - (c) frequency limits shall be expressed in Hertz; and
 - (d) dynamic stability limits shall be expressed in (i) per unit for voltage stability and (ii) damping for electromechanical oscillations.
3. The maximum admissible current representing thermal limit according to paragraph 2(a) shall be defined as follows:
 - (a) the maximum admissible current representing thermal limits shall be defined as fixed limit for each scenario representing the ambient conditions of this scenario.
 - (b) when applicable, the maximum admissible current representing thermal limits shall be defined as a temporary current limit of the CNE in accordance with Article 25 of the SO Regulation. A temporary current limit means that an overload is only allowed for a certain finite duration. As a result, various CNECs associated with the same CNE may have different I_{max} values.
 - (c) the maximum admissible current representing thermal limits shall represent only real physical properties of the CNE and shall not be reduced by any security margin.
4. TSOs shall regularly review and update operational security limits in accordance with Article 27(4) of the CACM Regulation.
5. Additionally, the CCM shall take into account the specific technical limits for the HVDC links.

Article 5

Methodology for determining critical network elements and contingencies relevant to capacity calculation

The critical network elements and contingencies considered and applied in the intraday capacity calculation process, and described in Article 5 of the Nordic ID CCM, are valid for the balancing timeframe as follows:

1. Each Nordic TSO shall define a list of CNEs, which are fully or partly located in its own control area, and which can be, *inter alia*, overhead lines, underground cables and transformers. All cross-zonal network elements shall be defined as CNEs, whereas only those internal network elements, which are defined pursuant to paragraphs 5 to 7 shall be defined as CNEs. Until 30 days after the approval of the proposal pursuant to paragraph 5, all internal network elements may be defined as CNEs.
2. Each Nordic TSO shall define a list of proposed contingencies used in operational security analysis in accordance with Article 33 of the SO Regulation, limited to their relevance for the set of CNEs as defined in paragraph 1 and pursuant to Article 23(2) of the CACM Regulation. The contingencies of a Nordic TSO shall be located within the observability area (as defined in Article 3(2)(48) of the SO Regulation) of that Nordic TSO. This list shall be updated at least on a yearly basis and in case of topology changes in the grid of the Nordic TSO, pursuant to Article 27(4) of the CACM Regulation. A contingency can be, *inter alia*, an unplanned outage of:
 - (a) a line, a cable, or a transformer;
 - (b) a busbar;
 - (c) a generating unit;
 - (d) a load; or
 - (e) a set of the such network elements.
3. Each Nordic TSO shall establish a list of CNEs associated with a contingency (CNECs) by associating the contingencies established pursuant to paragraph 2 with the CNEs established pursuant to paragraph 1 following the rules established in accordance with Article 75 of the SO Regulation. Until such rules are established and enter into force, the association of contingencies to CNEs shall be based on each TSO's operational experience. An individual CNEC may also be established without a contingency.
4. Each TSO shall provide to the CCC for intraday timeframe and each scenario a list of CNECs established pursuant to paragraph 3.
5. No later than eighteen months after the implementation of this methodology in accordance with Article 18(2), all TSOs shall jointly develop a proposal for amendment of this methodology in accordance with Article 6(3) of the EB Regulation, which shall improve this methodology by including a method for assessing the economic efficiency of increasing margin on internal network elements (combined with the relevant contingencies) in the intraday capacity calculation. This proposal shall be submitted by the same deadline to Nordic regulatory authorities for approval.
6. The methodology referred to in paragraph 5 shall define a process by which TSOs regularly, at least annually, analyse and identify internal network elements on which congestions are most efficiently addressed with intraday capacity calculation, taking into account other alternative measures for managing congestions on internal network elements, such as:
 - (a) application of RA;
 - (b) reconfiguration of bidding zones;
 - (c) investments in network infrastructure combined with one or the two above; or

- (d) any combination of (a), (b) and (c).
7. The methodology referred to in paragraphs 5 and 6 shall also ensure that TSOs take into account different timescales needed to implement alternative solutions such that including internal network elements in capacity calculation is allowed only until the alternative solution(s), which are identified as more efficient, can be implemented.
 8. The TSOs shall regularly review and update the application of the methodology for determining CNECs as defined in Article 27(4) of the CACM Regulation.
 9. No additional critical network elements and contingencies are applied for the balancing capacity calculation timeframe.

Article 6 **Methodology for allocation constraints**

The allocation constraints considered and applied in the intraday capacity calculation process, and described in Article 6 of the Nordic ID CCM, are equally valid for the balancing timeframe as follows:

1. In case operational security limits cannot be transformed efficiently into maximum flow on specific CNECs pursuant to Article 4, the TSOs may transform them into allocation constraints and provide them to the CCC to be used in the intraday capacity calculation. For this purpose, the TSOs may use the combined dynamic constraint, which limits the sum of power flows on a set of network elements, for the purpose to respect the dynamic stability limits. These TSOs shall provide to the CCC the F_{\max} for each defined combined dynamic constraint and the information on which network elements are combined into such combined dynamic constraint.
2. Allocation constraints pursuant to paragraph 1 may be used during a transition period of two years following the implementation of this methodology in accordance with Article 18(2) of this CCM. During this transition period, the concerned TSOs shall calculate the value of each combined dynamic constraint by performing a dynamic stability analysis in accordance with Article 38 of the SO Regulation at least on an annual basis and updated on a monthly basis, if relevant. The concerned TSOs shall publish the results and the underlying analysis.
3. In case the concerned TSOs cannot find and implement a more efficient solution than the applied combined dynamic constraint, they may, by eighteen months after the implementation of this methodology in accordance with Article 18(2) of this CCM, together with all other TSOs, submit to the Nordic regulatory authorities a proposal for amendment of this methodology in accordance with Article 6(3) of the EB Regulation. Such a proposal shall include the following:
 - (a) the technical and legal justification for the need to continue using the combined dynamic constraint indicating the underlying operational security limits and why they cannot be transformed efficiently into maximum flow on specific CNECs; and
 - (b) a detailed methodology to calculate the values of the combined dynamic constraints.

In case such a proposal has been submitted by all TSOs, the transition period referred to in paragraph 2 shall be extended until the decision on the proposal is taken by the Nordic regulatory authorities.

4. TSOs applying allocation constraints shall regularly review and update the application of allocation constraints in accordance with Article 27(4) of the CACM Regulation.

5. In addition, TSOs may apply other allocation constraints in the balancing timeframe. The relevant TSOs shall provide these allocation constraints to the CCC. The TSOs may apply either of the following allocation constraints:

- (a) Implicit loss factors: The implicit loss factor is a correction mechanism for a negative external effect incentivising the market to respect the cost of electricity losses on HVDC interconnections in the market coupling. The implicit loss factors on HVDC interconnections account for the power loss on HVDC interconnections by the following equation:

$$\text{Export quantity} = (1 - \text{"Loss Factor"}) * \text{Import quantity}$$

Equation 1

- (b) Limitations for exchanges of Frequency Restoration Reserves, in accordance with Article 176 of the SO regulation, for HVDC links shall be treated as allocation constraints. At least the following allocation constraints may apply in the balancing timeframe:
 - i. Limitations of amount of polarity reversals (zero-crossings) for a given period of time to secure the integrity of HVDC-equipment;
 - ii. Minimum flow on HVDC links;
 - iii. Ramping rates

6. TSO(s) applying the allocation constraints according to Article 6(5) shall communicate and justify application of those constraints to the market participants. All allocation constraint for the balancing timeframe can only be applied if an EU-wide welfare economic benefit or to fulfil operational security limits can be demonstrated to the NRAs.

Article 7 Methodology for determining generation shift keys (GSKs)

The generation shift keys (hereafter referred to as “GSKs”) considered and applied in the intraday capacity calculation process, and described in Article 7 of the Nordic ID CCM, are equally valid for the balancing timeframe as follows:

1. Each Nordic TSO shall provide to the CCC for each of the bidding zone under its responsibility, day-ahead and intraday capacity calculation timeframe and each scenario, the GSK to be used in the day-ahead and intraday capacity calculation.
2. GSKs shall define how a net position change in a given bidding zone shall be distributed to each production and load unit on that bidding zone in the CGM. These GSKs shall represent the best forecast of the relation of a change in the net position of a bidding zone to a specific change of generation or load in the CGM for each scenario. The forecast shall take into account the information received in accordance with the generation and load data provision methodology developed by all TSOs in accordance with Article 16 of the CACM Regulation.
3. Each TSO shall apply for a given bidding zone and the given scenario one of the GSK strategies listed below:

Strategy number	Generation	Load	Description/comment
0	k_g	k_l	Custom GSK strategy with individual set of GSK factors for each generator unit and load for each market time unit for a TSO
1	$\max\{P_g - P_{min}, 0\}$	0	Generators participate relative to their margin to the generation minimum (MW) for the unit

2	$\max\{P_{max} - P_g, 0\}$	0	Generators participate relative to their margin to the installed capacity (MW) for the unit
3	P_{max}	0	Generators participate relative to their maximum (installed) capacity (MW)
4	1.0	0	Equal GSK factors for all generators, independently of the size of the generator unit
5	P_g	0	Generators participate relative to their current power generation (MW)
6	P_g	P_l	Generators and loads participate relative to their current expected power generation or loading power (MW)
7	0	P_l	Loads participate relative to their expected loading power (MW)
8	0	1.0	Equal GSK factors for all loads, independently of their expected size of loading power
<p>where</p> <p>k_g : GSK factor [pu] for generator g</p> <p>k_l : GSK factor [pu] for load l</p> <p>P_g : Active power generation [MW] for generator g contained in CGM</p> <p>P_{min} : Minimum active generator output [MW] for generator g</p> <p>P_{max} : Maximum active generator output [MW] for generator g</p> <p>P_l : Active power load [MW] for load l contained in CGM</p>			

4. Within eighteen months after the implementation of this methodology in accordance with Article 18(2), all TSOs shall develop a proposal for amendment of this methodology in accordance with Article 6(3) of the EB Regulation, which shall further harmonise the generation shift key methodology. This proposal shall be submitted by the same deadline to the Nordic regulatory authorities for approval. The proposal shall at least include:
 - (a) the criteria and metrics for defining the efficiency and performance of GSKs and allowing for quantitative comparison of different GSKs; and
 - (b) a harmonised generation shift key methodology combined with, where necessary, rules and criteria for TSOs to deviate from the harmonised GSK methodology.
5. TSOs shall regularly review and update the application of the GSKs in accordance with Article 27(4) of the CACM Regulation.

Article 8

Methodology for determining remedial actions (RAs) to be considered in capacity calculation

The remedial actions (hereafter referred to as “RAs”) reflected in the FB parameters resulting from the intraday capacity calculation process, following from the Nordic regional operational security coordination (hereafter referred to as “ROSC”) process are the starting point for the validation process in the balancing timeframe. During the validation process the RAs applied for the intraday timeframe can be reconsidered for the balancing timeframe as follows:

1. The TSOs shall take actions to avoid undue discrimination between internal and cross-zonal exchanges in accordance with Article 16(8) of the Regulation (EU) 2019/943.
2. In a short-term perspective the TSOs shall apply RAs in accordance with Article 12.

3. In a mid-term perspective, the TSOs shall review the existing bidding-zone configuration in accordance with Article 32 of the CACM Regulation. In this review, the TSOs shall study whether a reconfiguration of bidding zones would bring benefits in accordance with Article 33 of the CACM Regulation.
4. In a long-term perspective, the TSOs shall consider efficient investments.

Article 9
Already allocated cross-zonal capacities

On the balancing timeframe, capacity has already been allocated on the long term (hereafter referred to as “LT”), day ahead (hereafter referred to as “DA”), and intraday (hereafter referred to as “ID”) timeframes. This is considered in the Already Allocated Capacity (hereafter referred to as “AAC”) as described in Article 11.

TITLE 3
Description of the capacity calculation process for the balancing timeframe

Article 10
Rules for calculating Cross-Zonal Capacity

The capacity calculation process for the balancing timeframe and for each market time unit within this timeframe is as follows:

- (a) The single intraday coupling (hereafter referred to as “SIDC”) shall send the AAC after IDCZGCT to the CCC.
- (b) If the CGM is updated after the intraday timeframe, the merging agent shall provide the latest available CGM to the CCC for the calculation of FB parameters.
- (c) The CCC shall apply the latest available FB parameters, or the FB parameters resulting from the capacity calculation in b) for the balancing timeframe.
- (d) The CCC shall send the FB parameters for the balancing timeframe to each TSO for validation.
- (e) Each TSO has the right to adjust the FB parameters before sending the final validated FB parameters, together with allocation constraints, to the CMF in accordance with the deadlines set by the CMF.

Article 11
Rules for taking into account previously allocated cross-zonal capacity

1. The TSOs shall take into account the previously allocated capacity as follows for the balancing timeframe:
 - (a) Capacity allocated for nominated Physical Transmission Rights (PTRs);
 - (b) Capacity allocated in the DA and ID markets
 - (c) Capacity reserved for cross-zonal exchange of balancing services, except those balancing services in accordance with Article 22(2)(a) of the CACM Regulation.

2. The CCC shall take into account the previously allocated cross-zonal capacities such that the calculation of the RAM takes into account the flows resulting from previously allocated cross-zonal capacities in accordance with Article 29(7)(c) of the CACM Regulation.
3. The flows resulting from allocated cross-zonal capacities for the DA and ID timeframes, and reserved for the balancing timeframes, in accordance with Article 29(7)(c) of the CACM Regulation shall be calculated for each CNEC and combined dynamic constraint in accordance with the Article 16(5) of the Nordic ID CCM as follows:
4. For the intraday timeframe, the flows resulting from nominated cross-zonal capacities for the previous timeframes, in accordance with Article 29(7)(c) of the CACM Regulation shall be calculated for each CNEC and combined dynamic constraint by multiplying the net positions of previously allocated cross-zonal capacities with the zone-to-slack *PTDFs*, i.e:

$$F_{AAC} = PTDF_{z2s} \cdot \overrightarrow{NP_{AAC}}$$

Equation 2

with

F_{AAC} flows resulting from previously allocated cross-zonal capacities for each CNEC and combined dynamic constraint

$PTDF_{z2s}$ zone-to-slack PTDFs calculated in accordance with Article 13(2)

$\overrightarrow{NP_{AAC}}$ Net positions of previously allocated cross-zonal capacities

Article 12

Description of the calculation of available margins on critical network elements before validation

1. The FB parameters that result from the intraday capacity calculation process describe a RAM after validation that contains a capacity reservation for balancing services:

$$\overrightarrow{RAM}_{IDCC} = \vec{F}_{max} + \vec{F}_{RA} - \vec{F}_{RM} - \vec{F}_0 - \vec{F}_{AAC (DA+ID)} - \vec{F}_{AAC (BT)} - IVA_{ID}$$

Equation 3

2. The CCC shall calculate the RAM before validation for each CNEC and combined dynamic constraint for the balancing timeframe as follows:

$$\overrightarrow{RAM}_{bv} = \overrightarrow{RAM}_{IDCC} + \vec{F}_{AAC (BT)}$$

Equation 4

with

$\overrightarrow{RAM}_{IDCC}$ final remaining available margin for the intraday timeframe

$\overrightarrow{RAM}_{bv}$ remaining available margin before validation for the balancing timeframe

\vec{F}_{max}	maximum flow on all CNECs and combined dynamic constraints, as resulting from the intraday capacity calculation
\vec{F}_{RA}	flow for increasing the RAM on a CNEC or combined dynamic constraints due to RAs taken into account in capacity calculation, as resulting from the intraday capacity calculation
\vec{F}_{RM}	flow for reliability margin for all CNECs and combined dynamic constraints, as resulting from the intraday capacity calculation
\vec{F}_0	linear approximation of a flow in the reference net position on a CNEC or combined dynamic constraint in a situation without any cross-zonal exchanges, as resulting from the intraday capacity calculation
$\vec{F}_{AAC(DA+ID)}$	flows resulting from previously allocated, or reserved cross-zonal, capacities for all CNECs and combined dynamic constraints for day-ahead and intraday timeframe
$\vec{F}_{AAC(BT)}$	flows resulting from previously allocated, or reserved cross-zonal, capacities for all CNECs and combined dynamic constraints for balancing timeframe
IVA_{ID}	individual validation adjustment for the intraday timeframe

3. When the RAM value calculated pursuant to paragraph 2 is negative it shall be applied as is.

Article 13

Rules for sharing the power flow capabilities of CNECs among different CCRs

1. To take into account the impact of exchanges in neighbouring CCRs on the CNECs and combined dynamic constraints within the Nordic CCR, the CCC shall calculate the cross-zonal exchanges or cross-zonal capacities on the bidding zone borders of these neighbouring CCRs by performing all steps in calculation of capacity in the balancing timeframe by assuming that bidding zone borders of neighbouring CCRs are part of the Nordic CCR and thereby the impact of exchanges on bidding zone borders outside the Nordic CCR on the CNECs within the Nordic CCR shall be calculated as well.
2. The FB parameters calculated for bidding zone borders outside the Nordic CCR shall be part of the final FB parameters as referred to in Article 14(4).

TITLE 4

Description of capacity validation for the balancing timeframe

Article 14

Methodology for the validation of cross-zonal capacity

1. Each TSO may perform a validation of cross-zonal capacities on its bidding zone border(s), defined by the FB parameters on its CNECs and combined dynamic constraints, to ensure that the results of regional calculation of cross-zonal capacity will ensure operational security. When performing the validation, the TSOs shall consider operational security, taking into account new and relevant information obtained during or after the most recent capacity calculation.
2. RAM_{bv} calculated in accordance with Article 12(2) may be adjusted during the validation by applying individual validation adjustment (IVA_{BT}) to take into account relevant information known

at the time of validation in accordance with paragraph 1. IVA_{BT} can only be a positive value indicating a reduction of cross-zonal capacities.

3. The individual validation adjustment may be done in the following situations:
 - (a) an occurrence of an exceptional contingency or forced outage as defined in Article 3(39) and Article 3(77) of the SO Regulation;
 - (b) a mistake in input data, that leads to a wrong estimation of cross-zonal capacity from an operational security perspective
4. The final FB parameters available for capacity allocation shall be the latest PTDF calculated in the capacity calculation and the RAM calculated as follows:

$$\overrightarrow{RAM} = \overrightarrow{RAM}_{bv} - \overrightarrow{IVA}_{BT}$$

Equation 5

with

\overrightarrow{RAM}	final remaining available margin
$\overrightarrow{RAM}_{bv}$	remaining available margin before validation
$\overrightarrow{IVA}_{BT}$	individual validation adjustment at the balancing timeframe

TITLE 5 Miscellaneous

Article 15

Transitional solution for calculation and allocation of balancing timeframe cross-zonal capacities

Until the European balancing platforms are able to support the allocation of cross-zonal capacity based on FB parameters, the CCC shall transform the final FB parameters as referred to in Article 14 into available transmission capacity ('ATCE') values on bidding zone borders of the Nordic CCR and bidding zone borders of neighbouring CCRs if the latter are included in the capacity calculation pursuant to Article 13. For each balancing market time unit, one set of ATCE values shall be calculated as follows:

1. The available transfer capacity ATC^n (where $ATC^n \in ATC$, and ATC is a vector of maximum allowed power exchange on all bidding zone borders) shall be calculated as:

$$\text{Maximize } f(\overrightarrow{ATC})$$

Subject to

$$g_j\left(\sum_n ATC^n * PTDF_j^n\right) \leq h_j(RAM_j) \quad \forall j \in \{\text{All CNEs and allocation constraints}\}$$

Equation 6

with

f	a function defining the weight for each border in the optimisation
g_j	a function defining the weight of each trade in the total flow on CNE j
h_j	a function defining the scaling of CNEs in non-relevant market directions
ATC^n	maximum available power exchange on bidding zone border n
\overrightarrow{ATC}	a vector of maximum available power exchanges for all borders
$PTDF_j^n$	zone-to-zone PTDF for bidding zone border n

2. Two months before the application of this transitional solution, the Nordic TSOs shall publish the exact values and parameters of the functions f , g and h , including their description, purpose and effect. During the development process of the functions f , g and h , Nordic regulatory authorities and stakeholders will be informed, and they may provide comments duly to be taken into account in development work.
3. No later than eighteen months after the implementation of this methodology in accordance with Article 18(2), all TSOs shall jointly develop a proposal for amendment of this methodology in accordance with Article 9(13) of the CACM Regulation, which shall improve this methodology by including the description and definition of the functions referred to in paragraph 3. This proposal shall be submitted by the same deadline to all Nordic regulatory authorities for approval.
4. Any update to the transitional solution, affecting the results of the calculation pursuant to paragraph 1, shall be done in accordance with Article 15(2) and 15(3).

Article 16

Fallback procedure if the initial capacity calculation does not lead to any results

The FB parameters computed for the intraday timeframe, by using dedicated intraday CGMs, will be updated for the balancing timeframe, by taking into account the already allocated capacities from the intraday and balancing timeframes. As such, the left-over capacity – being the capacity remaining after the intraday timeframe – can be provided to the balancing timeframe for the exchange of balancing energy or for operating the imbalance netting process. If this process does not lead to a result, the capacity reserved for the cross-zonal exchange of balancing services will be released as fallback capacity for the balancing timeframe.

Article 17

Publication of data

1. In accordance with Article 12 of the EB Regulation aiming at ensuring and enhancing the transparency and reliability of information to all Nordic regulatory authorities and market participants, all TSOs and the CCC shall regularly publish the data on the balancing timeframe capacity calculation process pursuant to this methodology as set forth in paragraph 2 on a dedicated online communication platform.
2. The TSOs shall publish at least the following data items (in addition to the data items and definitions of Commission Regulation (EU) No 543/2013 on submission and publication of data in electricity markets):
 - (a) final FB parameters for each balancing market time unit pursuant to Article 14;

- (b) in case of application of transitional solution pursuant to Article 15 for each balancing market time unit the ATCE values for all bidding zone borders in Nordic CCR calculated pursuant to Article 15;
 - (c) results of TSOs' reviews and updates of the application of allocation constraints pursuant to Article 6(4);
 - (d) amount of application of fallback FB domains or ATCE values for a given time period pursuant to Article 16; and
 - (e) any reduction in individual cross-zonal capacity during the validation pursuant to Article 14, including the reason(s) for reduction.
3. The Nordic regulatory authorities may request additional information to be published by the TSOs. For this purpose, all Nordic regulatory authorities shall coordinate their requests among themselves and consult it with stakeholders. Each Nordic TSO may decide not to publish the additional information, which was not requested by its regulatory authority.

TITLE 6 Final Provisions

Article 18 Publication and Implementation

1. The TSOs shall publish the CCM without undue delay after all Nordic regulatory authorities have approved the CCM or a decision has been taken by the Agency for the Cooperation of Energy Regulators in accordance with Article 5(6), Article 5(7) and Article 6 of the EB Regulation;
2. The TSOs shall implement this methodology in three consecutive steps:
 - (a) Before the DA FB and ID ATCE have been implemented, the remaining ATC capacity after the IDCZGCT are shared with the balancing platforms;
 - (b) When the DA FB and ID ATCE have been implemented and within 6 months after the TSOs of the Nordic CCR has started applying the balancing platforms and these platforms are not capable to handle the FB parameters: intraday left-over capacities are shared with the balancing platforms as ATCE values;
 - (c) When the DA FB and ID FB have been implemented and TSOs of the Nordic CCR apply balancing platforms and these platforms are capable to handle the FB parameters: FB parameters are shared with the balancing platforms;

Article 19 Language

The reference language for this CCM shall be English. For the avoidance of doubt, where TSOs need to translate this CCM into their national language(s), in the event of inconsistencies between the English version published by TSOs in accordance with Article 7 of the EB Regulation and any version in another language, the relevant TSOs shall be obliged to dispel any inconsistencies by providing a revised translation of this CCM to their relevant national regulatory authorities.