



9.3.2026

Balance and Reserve Market Services

Current topics webinar

Unofficial translation

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Current topics webinar

- The purpose of the Current Topics Webinars is to share information on topical issues related to balancing and reserve market services in a low-threshold format.
- The webinars do not replace in-depth topic-specific webinars but complement them.
- Held once per quarter, Second Monday of the third month of each quarter, 14:00–15:00 EET
- Questions can be submitted via chat. Answers will be published together with the materials
- Materials published on Fingrid's Events page
- Webinar is not recorded

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Yhteystiedot Kirja

Kantaverkko Sähkömarkkinat Avoin data Sijoittajat Tietoa Fingridistä Uutiset ja tapahtumat

Etusivu / Uutiset ja tapahtumat / Tapahtumat / Tase- ja reservimarkkinapalvelu

Tapahtumat

Toimikunnat ja työryhmät

Kantaverkkopalvelut ja sähköjärjestelmä

Sähkömarkkinat

Tase- ja reservimarkkinapalvelu

Rakentamisen, kunnossapidon ja työturvallisuuden tilaisuudet

Varautuminen

Datahub

Fingrid Current

Messut ja muut yleisötapahtumat

Tase- ja reservimarkkinapalvelu

Vuoden 2026 tapahtumat

Tase- ja reservimarkkinapalvelun ajankohtaiswebinaari 9.3.2026

Webinaarissa käydään läpi ajankohtaisia aiheita tase- ja reservimarkkinapalvelun osalta. Webin Tarkempi agenda julkaistaan noin viikkoa ennen webinaaria.

Webinaariin liitytään oheisella Teams-linkillä, ei ennakkoilmoittautumista: Ajankohtaiswebinaari Esitysmateriaali julkaistaan jälkikäteen.

Reservimarkkina- ja tasepalvelupäivät 2026

Reservimarkkina- ja tasepalvelupäivät 2026 järjestetään tänä keväänä **kaksipäiväisenä tapaht** Helsingissä. Merkitse ajankohta kalenteriisi jo nyt!

Ensimmäisenä päivänä käsiteltävien aiheiden pääpainopisteenä on reservimarkkinat ja toisena taseselvitys. Tiedossa on perinteiseen tapaan puheenvuoroja ja keskustelua ajankohtaisista as Ohjelma julkaistaan myöhemmin.

Tilaisuus paikan päällä on tarkoitettu kutsuvieraille.

Tilaisuutta voi seurata myös live-lähetyksen välityksellä. Live-lähetykseen ei tarvitse ilmoittautua lähempänä tilaisuutta.

Lisätietoja: Tuire Kujansuu, puh. +358 30 395 4157. Sähköpostiosoitteemme ovat muotoa etun

Feedback:



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Agenda

- Status of terms & conditions updates and market changes
- Update to the Reserve Trading and Data Exchange Guidelines
- Consumption Plan Pilot
- mFRR Activation Deadband Pilot
- Mimosa – New Market and Balance Management System
- MARI integration and timetable
- New open data time series

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9.3.2026

Otso-Ville Rinne ja
Heikki Raatikainen

Status of terms & conditions updates and market changes

Balance & reserve market services

Current topics webinar

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Development of the reserve market and balance service

- **The Energy Authority consultation on contract changes for reserve providers and Balance Responsible Parties (BRPs) was completed on 11 January 2026 -> A regulatory decision is pending.**
 - Corrections related to the alignment of contract terms
 - Updates to the BRP collateral model, including: Introduction of a minimum collateral requirement and removal of small-scale production from the model
 - Minimum requirements to ensure the delivery reliability of reserves
 - Clarifications to BRP requirements: Metering area requirements for production facilities and energy storage
- **Amendments related to IA and MARI for reserve providers and BRPs (under The Energy Authority consultation until 23 March 2026)**
 - The objective is to clarify contract terms and ensure security of supply and proper functioning of electricity markets
 - MARI implementation and independent aggregation.
- **Investigation of the collateral model for balance responsible parties**
 - Webinar tomorrow 10.3.2026 at 2 p.m. on changes to the collateral model and terms and conditions
- **Hearing of the terms and conditions of the balance responsible parties will begin on 10 March 2026**
 - Collateral model
 - Energy storage in connection with other production



Changes to the terms and conditions of reserve suppliers and balance responsible parties

13.3.2026

- Summary of spring changes to terms and conditions 05/2025 ("Mega Package 1")
 - Status (09.03.2026): Hearing with the Energy Authority ended on 11.1.2026, waiting for decision
 - Contents: Terms and Conditions of the Reserve Suppliers' aFRR, FCR, FFR, mFRR Agreements (Appendix 1) and the General Imbalance Settlement Terms and Conditions of the Balance Responsible Agreements' Agreements (Appendix 1, Part 2) and Payment Components and Determination of Fees (Appendix 2)
 - Objective: The purpose of updating the terms and conditions is to clarify the current terms and conditions. In addition, the update proposes changes to the requirements to ensure the system security of the electricity system and the functioning of electricity trade in all situations.
 - Key amendments: Requirements for notification to the DSO, fulfilment of system technical requirements and requirements for the security of supply of reserves – instructions
 - Further information: <https://www.fingrid.fi/ajankohtaista/tiedotteet/2025/kuuleminen-reservitoimittajien-ja-tasevastaavien-ehojen-muutoksista-052025/>
- Summary of Autumn Terms and Conditions Amendments 11/2025 ("MARI & IA")
 - Status (09.03.2026): Terms and conditions submitted to the Energy Authority on 30 January 2026, Energy Authority consults on terms and conditions until 23 March 2026
 - Content: MARI: mFRR and BRP Terms and Conditions
 - Independent aggregation: aFRR and mFRR contract terms
 - Objective: To enable independent aggregation and implement the implementation of the European mFRR energy market "MARI" marketplace
 - Key changes: IA model corresponding to aFRR, treatment of delivered balancing energy and compensation model for IA, update of IA's collateral model and MARI-compliant market rules: submission time for bids and production plans qh-25 min and separate prices for scheduled and direct activation
 - Inquiries: Changes in reserve suppliers and balance responsible parties 11/2025 - summary - Fingrid

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Timeline

Ehdot	Muutos	Status	2025			2026												2027				
			10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
aFRR	Liite1	"Kevät 25 Megapaketti"	Vahvistettava		EV käsittely																	
	Liite 1	aFRR itsenäinen aggregaattori v.2	Vahvistettava	FG	Kons.		EV käsittely															
mFRR	Liite 1	"Kevät 25 Megapaketti"	Vahvistettava		EV käsittely																	
	Liite 1	mFRR itsenäinen aggregaattori	Vahvistettava	FG	Kons.		EV käsittely															
	Liite 1	mFRR MARI	Vahvistettava	FG	Kons.		EV käsittely															
FCR	Liite1-2	"Kevät 25 Megapaketti"	Vahvistettava		EV käsittely																	
FFR	Liite1-2	"Kevät 25 Megapaketti"	Vahvistettava		EV käsittely																	
Tasehallinta	Liite 1	MARI	Vahvistettava	FG	Kons.		EV käsittely															
Taseselvitys	Liite 1.2	Kevät 25 Megapaketti	Vahvistettava		EV käsittely																	
	Liite 1.2	Tasepoikkeaman hinnoittelu/ MARI	Vahvistettava	FG	Kons.		EV käsittely															
	Liite 1.2	Vakuusmalli ja energiavarastot muun tuotannon yhteydessä	Tulossa kuulemiseen				FG	Kons.		EV käsittely												

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9.3.2026

Otso-Ville Rinne

Reserve trading and information exchange guidelines - update

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Reserve trading and information exchange guidelines - update

- Fingrid's reserve trading and information exchange guidelines have been updated
- The new version was released on 3.3.- [link](#) Changes to content:
 - Maintaining the balance responsibility information of a reserve site using the Datahub authorisation feature (chapter 4.1.8)
 - The reserve supplier must register as a flexible service provider in Datahub
 - In this case, the end customer can authorise the reserve supplier to obtain information on the imbalance responsibility information of the distribution network's points of use (balance responsible, electricity supplier, metering area)
 - Clarification of the reporting of undelivered reserves and the classification of force majeure
 - Notifications of force majeure must be sent by e-mail with a specific subject and notification template in the message field of the e-mail
 - The first notification must be submitted within 30 minutes of the discovery of the defect, i.e. the force majeure is considered to have started no earlier than 30 minutes before the receipt of the form'
 - The notification can be specified during the current month
 - The report shall include information on the component or process that has failed, the possible cause of the failure and its impact on reserve maintenance
 - An incomplete report after the end of the month will lead to the rejection of the report



9.3.2026

Veli-Petteri Liedes

Consumption plan pilot

Balance & reserve market services

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Background of the project

Finland's electricity system has changed significantly in recent years

Both production and consumption will vary more than before depending on the price of electricity and the weather.

- Price-elastic consumption creates uncertainties in the forecasting of consumption and, consequently, in balancing and congestion management.
- Especially in situations where there is uncertainty about how much consumption will react to the Day-ahead price, consumption plans would provide important additional information for the management of the electricity system
- District heating was previously produced with CHP, which has now been replaced by electric boilers and thus turned into consumption. There were plans for that production, so plans are also needed for replacement technology
- The consumption plans would specify Fingrid's own consumption forecasts and thus improve the accuracy of the mFRR control request

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Consumption plans as part of the balancing process pilot

- Fingrid collects consumption plans for electric boilers over 10 MW
- Duration six months, date next winter
- Plans are intended to be sent in the same way as production plans
- The quality of the consumption plans during and after the pilot will be monitored, as well as the impact on the prerequisites for the management of the electricity system
- Based on the experiences of the pilot, the expansion of consumption plans will be assessed

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Osallistujia tarvitaan



Fingrid invites balance responsible parties with electric boilers exceeding 10 MW on their balance sheets to participate in the pilot.

If agreed with Fingrid, it is also possible to participate in the pilot with electric boilers of less than 10 MW and other consumption sites. By participating in the pilot, balance responsible parties will have the opportunity to be part of the development related to consumption plans and the forecasting of imbalance deviations.



Fingrid hopes that interested balance responsible parties will contact us by email by the end of March at kulutussuunnitelmat@fingrid.fi



A successful pilot requires active participation

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9.3.2026

Väinö Valli

mFRR request dead band pilot

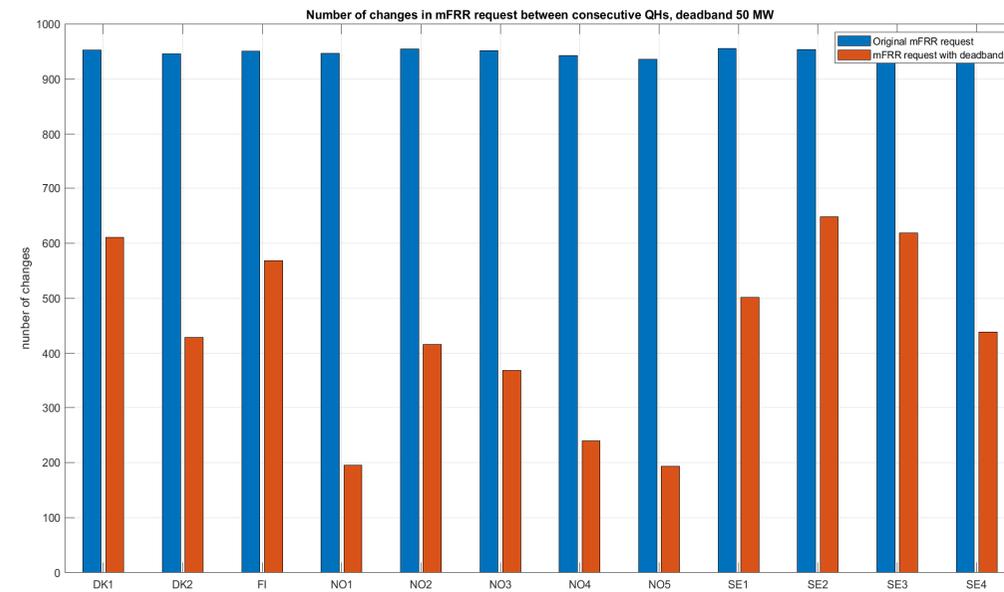
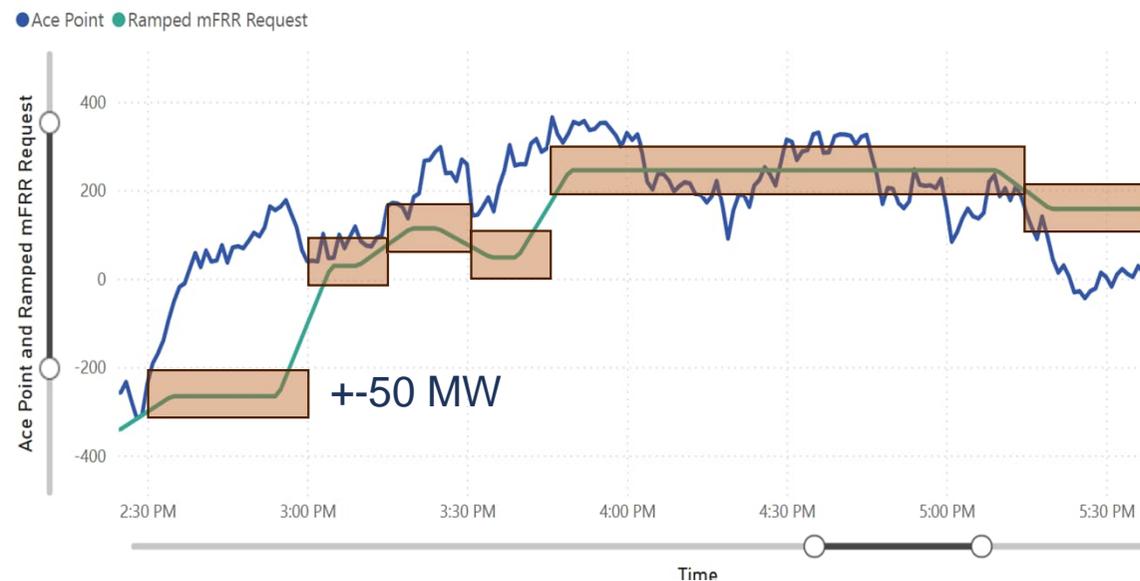
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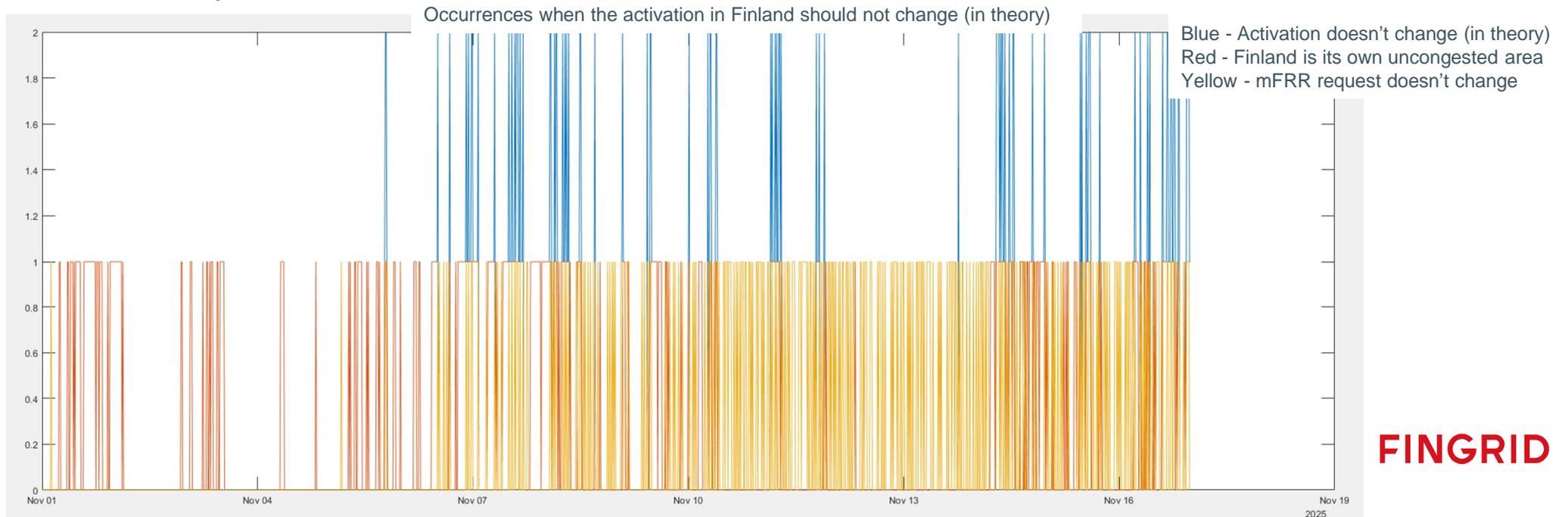
Background

- mFRR EAM go-live 4.3.2025
- mFRR request and the activation need change on almost every quarter hour
 - difficult to follow the activation request, more wear and tear in regulating resources
- According to the analysis, a floating dead band in the mFRR request would reduce changes in the mFRR request and thus in the activated volumes of the providers
- Pilot starting 6.11.2025 deadband with a value of ± 50 MW



Background

- The decrease in the activation changes is based on the assumption: When mFRR request in Finland does not change and Finland is its own price area, i.e. no mFRR is activated in Finland for the needs of other countries, total activated mFRR volume in Finland does not change
- According to the analyses, the changes in Finland's mFRR activation volume should have decreased by about 10%
- The reality is different...



Pilot

Request and Bid volume



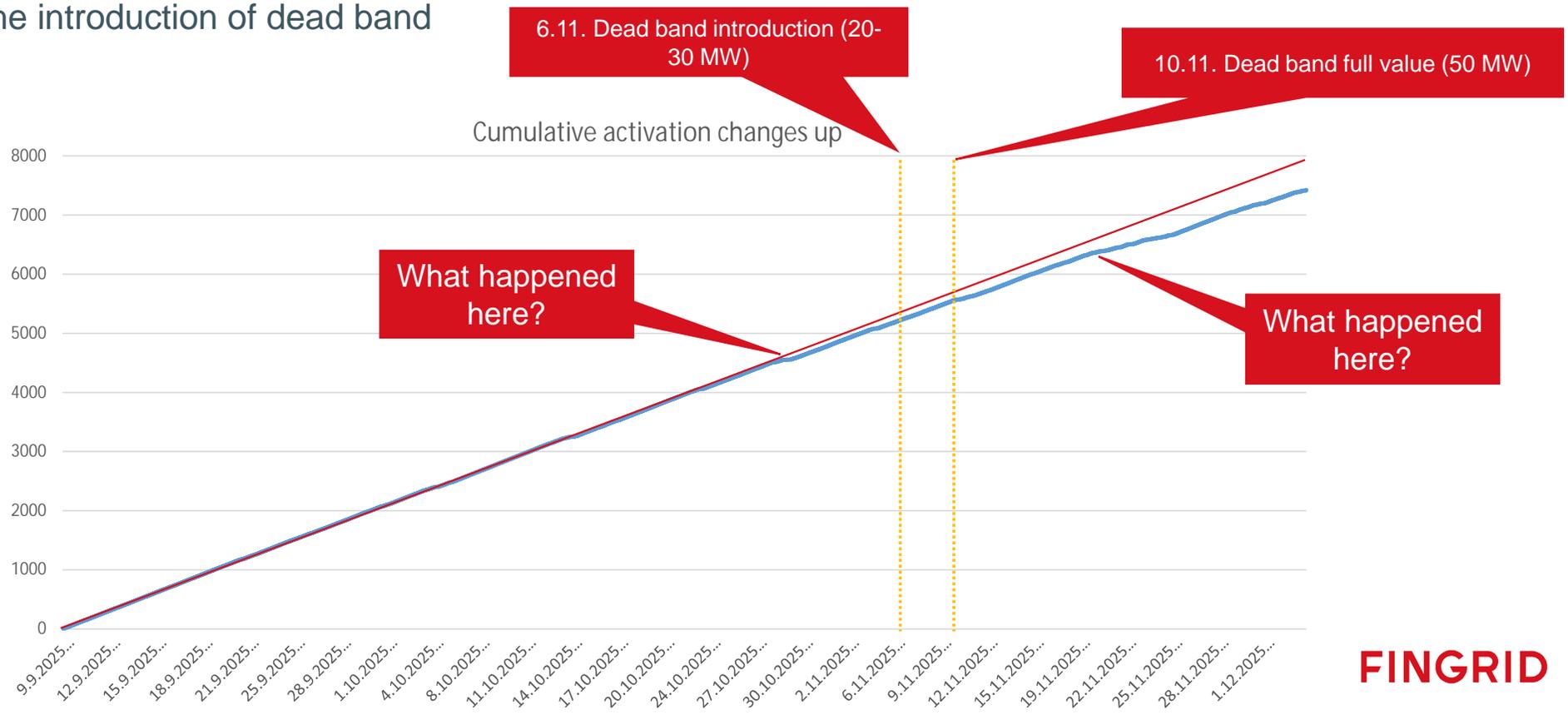
- In theory the activations should not change for the time periods delimited by red lines. In these situations, Finland has been its own price area and the mFRR request in Finland doesn't change.
- **In reality the activated volume does change often during these time periods.** This is because of:
 1. Tolerance band. Because of tolerance band functionality in the Nordic mFRR market algorithm, different volume nearly often activates than what was requested (1,2,3,4)
 2. mFRR activation in both directions. It is possible to counter activate different volumes for different QHs and still end up with the same net activation (3,4). Tolerance band may affect the activated volumes also in these situations.

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We waited to accumulate more data and to follow what happens in the changes in the activations...

Pilot

- Changes in the activations were examined one month before and after the introduction of the dead band
- The cumulative image of the changes in the activations does not indicate decrease of activation changes after the introduction of dead band



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Conclusion

- The number of activation changes decreased by about 10% in the upward direction and by about 5% in the downward direction when examining one-month periods before and after the introduction of the dead band (9.10.- 5.11.) and (7.11.- 4.12.)
- Although changes in the activations had decreased, a direct cause-and-effect relationship between the decrease in activation changes and introduction of dead band could not be seen (cumulative activation changes)
- The benefit of the dead band could not be directly observed in the current operation, and it had a small negative impact on Finland's residual imbalance
- **Dead band was switched off on 23 January.**
- After the switch-off, the situation was monitored and an analysis was made of the effects of the deletion with no visible effect on the changes in activations
-
- In the future
- Dead band can be switched on again if there are changes in the mFRR energy market that increase the benefits of the dead ban.
- Tolerance band removal in Nordic libra? (not necessarily worth it)
- There is no tolerance band in MARI

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9.3.2026

Karri Mäkelä

Mimosa

**A new information system for the needs
of the reserve market and balance
management**

Balance & reserve market services

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The project in brief

The project will replace the current market platform VAKSI, which has been in use for 18 years. The aim is to respond more effectively to the rapidly changing operating environment.

Markets

FCR-N

**m
FRR**

**a
FRR**

FFR

**FCR
D**

Users

Operators

Experts

BSP's

Processes

Siirtokapasiteettien hallinta

Siirtosuunnitelmien määrittäminen

Aktivointitarpeen määrittäminen

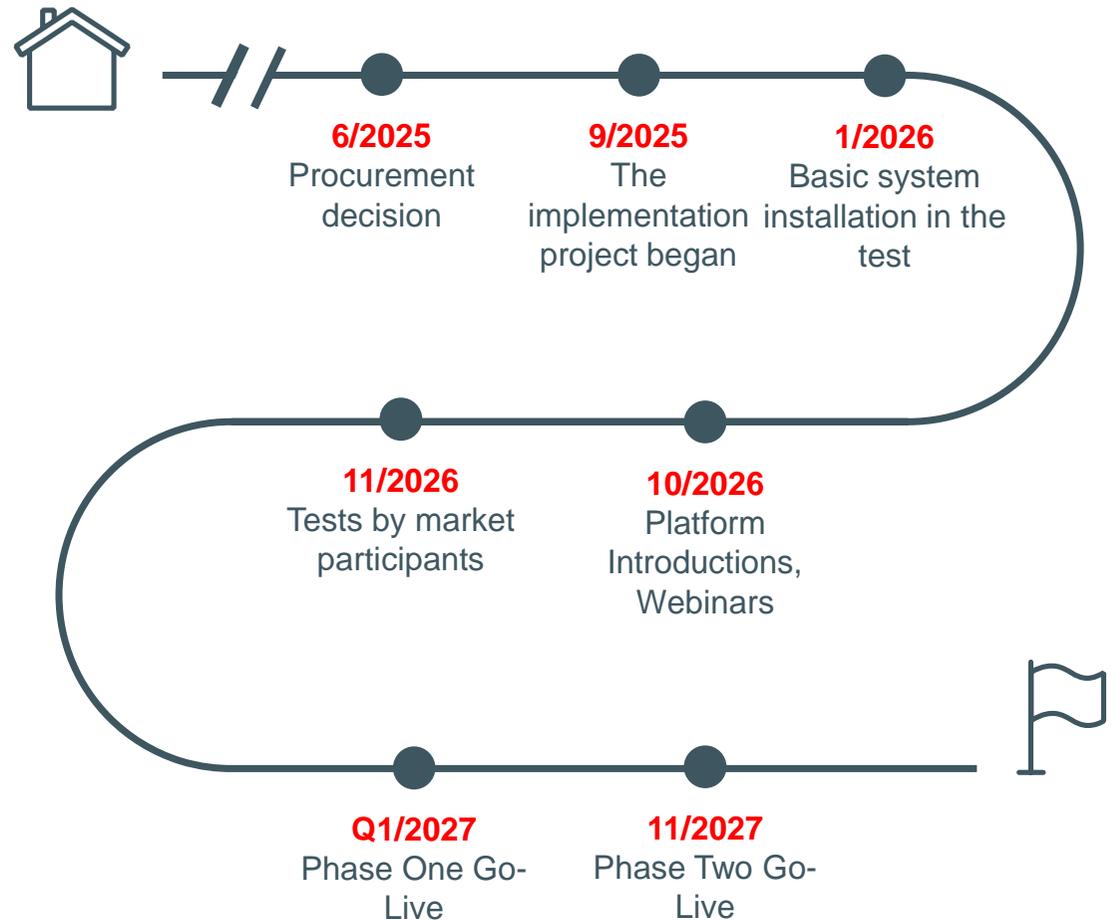
Aktivointitarpeen täyttäminen

Kaupankäynti

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Schedule

- The implementation project will proceed in two phases. In the first phase, the energy market functionalities (MARI & PICASSO) will be introduced, and in the second phase, the capacity market
- Market participants will be inducted and tested on the new platform during autumn 2026
- Message traffic to market players will remain unchanged
- The platform is planned to be put into operational use in connection with the MIRI connection in Q1/2027
- For other functionality, deployment at the end of 2027 at the earliest

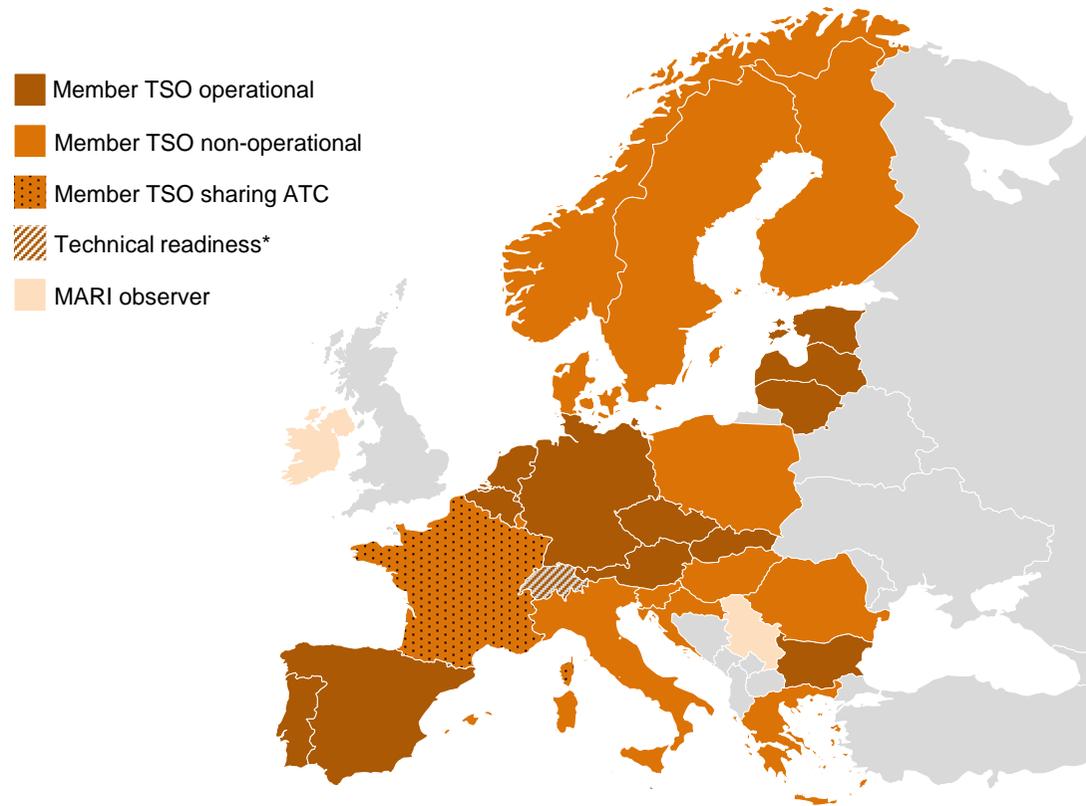


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MARI

Manually Activated Reserves Initiative

Fingrid's accession to the European mFRR energy trading platform

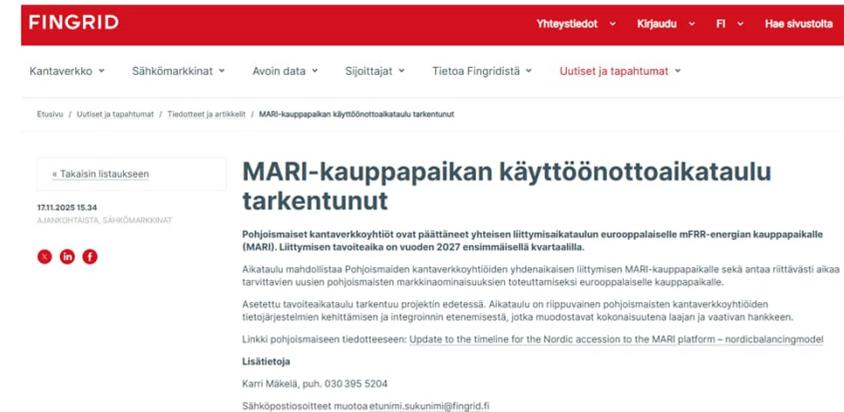


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MARI accession schedule

- The Nordic countries have agreed on a common accession schedule. The accession will take place during the first quarter of 2027.
- National changes to the terms and conditions, consultation in autumn 2025. The terms and conditions have been submitted for approval by the Energy Authority on 30 January 2026.
- Guidelines for market participants are currently being prepared. In addition, webinars on the connection will be held during the autumn of 2026.
- It will be possible to test data traffic (sending offers, acknowledgements, results, unavailability) in autumn 2026. In addition, market participants have the opportunity to participate in Fingrid's simulation tests.
- More information about the MARI connection will be provided at the Reserve Market Day on 28 April 2026

Fingrid, tiedote 17.11.2025



The screenshot shows a news article on the Fingrid website. The header is red with the Fingrid logo and navigation links. The article title is 'MARI-kauppapaikan käyttöönottoaikataulu tarkentunut'. The text below the title states that the Nordic countries have agreed on a common accession schedule for the first quarter of 2027. It also mentions national changes to terms and conditions in autumn 2025 and guidelines for market participants being prepared. The article is dated 17.11.2025 15:34.

FINGRID Yhteystiedot Kirjautu FI Hae sivustolta

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Etsiivä Uutiset ja tapahtumat Tiedotteet ja artikkelit MARI-kauppapaikan käyttöönottoaikataulu tarkentunut

« Takaisin listaukseen

17.11.2025 15:34
AJANKOHTAISTA, SÄHKÖMARKKINAT

MARI-kauppapaikan käyttöönottoaikataulu tarkentunut

Pohjoismaiset kantaverkko-yhtiöt ovat päättäneet yhteisen liittymisaikataulun eurooppalaiselle mFRR-energian kauppapaikalle (MARI). Liittymisen tavoiteaika on vuoden 2027 ensimmäisellä kvartaalilla.

Aikataulu mahdollistaa Pohjoismaiden kantaverkko-yhtiöiden yhdenaikaisen liittymisen MARI-kauppapaikalle sekä antaa riittävästi aikaa tarvittavien uusien pohjoismaisten markkinaominaisuuksien toteuttamiseksi eurooppalaiselle kauppapaikalle.

Asetettu tavoiteaikataulu tarkentuu projektin edetessä. Aikataulu on riippuvainen pohjoismaisten kantaverkko-yhtiöiden tietojärjestelmien kehittämisen ja integroinnin etenemisestä, jotka muodostavat kokonaisuutena laajan ja vaativan hankkeen.

Linkki pohjoismaiseen tiedotteeseen: Update to the timeline for the Nordic accession to the MARI platform – nordicbalancingmodel

Lisätietoja

Karri Mäkelä, puh. 030 395 5204
Sähköpostiosoitteet muotoa etunimi.sukunimi@fingrid.fi

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9.3.2026

Eero Ilomäki

Fingrid Open Data: new time series

Balance & reserve market services

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Fingrid Open Data: new mFRR timeseries

- We started publishing the price of mFRR energy in real time from December 2025:

Data	Publication time
mFRR Scheduled activation price - real-time (ID 400)	7.5 min before the start of the MTU
mFRR direct activation price up - real-time (ID 401)	At the beginning of direct activation
mFRR direct activation price down - real-time (ID 402)	At the beginning of direct activation

- **Note! Prices are subject to change and final prices are published 15 minutes after the market time unit**

Fingrid Open Data: new aFRR timeseries

- New time series for aFRR in Open Data:

Data	Preliminary info
Avoided aFRR activation up (ID 407)	Netted avoided aFRR activation need up. 15-minute average, published 15 minutes after the market time unit.
Avoided aFRR activation down (ID 408)	Netted avoided aFRR activation need down. 15-minute average, published 15 minutes after the market time unit.
FI-EE aFRR Capacity Export (ID 409)	FI-EE available aFRR EM capacity for exports from Finland. 15-minute average, published 15 minutes after the market time unit.
FI-EE aFRR Capacity Import (ID 410)	FI-EE available aFRR EM capacity for imports to Finland. 15-minute average, published 15 minutes after the market time unit.
PICASSO status (ID 411)	FG-PICASSO status, 15-minute average, published 15 minutes after the market time unit.
Local Frequency Controller Status (ID 412)	LFC status, 15-minute average, published 15 minutes after the market time unit.

In the pipeline

- mFRR: Publication of the activated sum power at the time of activation
- aFRR: 4s resolution data from:

Data	Preliminary info
Activated aFRR up	Real-time data on activated aFRR volumes. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.
Activated aFRR down	Real-time data on activated aFRR volumes. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.
Marginal price aFRR Finland up	Real-time data on aFRR marginal price. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.
Marginal price aFRR Finland down	Real-time data on aFRR marginal price. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.
PICASSO aFRR power correction, Pcorr CMO	Pcorr, PICASSO “power correction” = Estlink 1 aFRR setpoint. Real-time data. Zipped 1-month-old data.
Satisfied demand up	Real-time data on “local” aFRR demand up, calculated by Statnett’s controller. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.
Satisfied demand down	Real-time data on “local” aFRR demand down, calculated by Statnett’s controller. Published in 15-minute intervals 15 minutes after the market time unit. Zipped 1-month-old data.

Q&A

Question	Answer
Is it possible to start transcription so that non-Finnish speakers can receive simultaneous translation here in Teams?	Material will be provided in english. Webinars are not recorded, transcript is considered for next webinar.
Will the DERI messages for independent aFRR aggregation include a field for reporting undelivered reserve as in contractual aggregation? Currently eSett cannot allocate imbalance errors correctly if a BSP has both contractual and independent aggregation and, for example, a connection issue has disrupted BSP-TSO real-time signalling.	There will be no field added to the DERI message for reporting energy volumes that were undelivered or over-delivered under Independent Aggregation, because in the IA model the difference between the ordered and delivered volume falls under the responsibility of the Independent Aggregator, and eSett records this difference for the IA as a regulation imbalance. The DERI message does, however, take into account the situation where a BSP has both Independent Aggregation and contractual reserve provision in aFRR. In the DERI message, the BSP reports to eSett the regulation imbalances arising under contractual reserve provision, and these are taken into account in the imbalance adjustment performed for the Balance Responsible Party. Any remaining share of the regulation imbalance is recorded by eSett as the responsibility of the Independent Aggregator.
Could the force majeure notification be moved to Vaksi? And in such a way that the notification would simultaneously mark the bids in Vaksi as unusable, and when the notification is marked as ended it would make the bids usable again? In the current operating model the notification is sent separately and bids are removed separately, which can lead to a situation where after the fault ends it takes some time before bids are restored because changes can only be made for open delivery hours. — Follow-up comment: Really good suggestion, and this should at least be taken into account in MIMOSA development so that it could work this way in the future.	For now it will not be implemented in Vaksi, but implementation in Mimosa is being considered. The development proposal has been recorded in the customer feedback process to ensure the feedback is handled.
Will the pilot's consumption plan be sent in the same message as the production plans, or what is the message format?	Consumption plans are sent in a separate message via a dedicated interface. The message format is the same as for production plans.
Not directly related to the agenda, but important for reserves: when will aFRR EAM bids in Vaksi get similar safety limits to those used in mFRR EAM?	aFRR Energy Market bids are limited to prequalified portfolio size in Vaksi. This limit can be decreased based on BSP request if necessary.

Thank you !

Upcoming events:

Webinar for collaterals of BRP's 10.3.

Balance & reserve markets services seminar 28.4. – 29.4.

Current topics webinar 8.6.

Feedback:



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