



# NBM

Nordic Balancing  
Model

## General update on NBM program

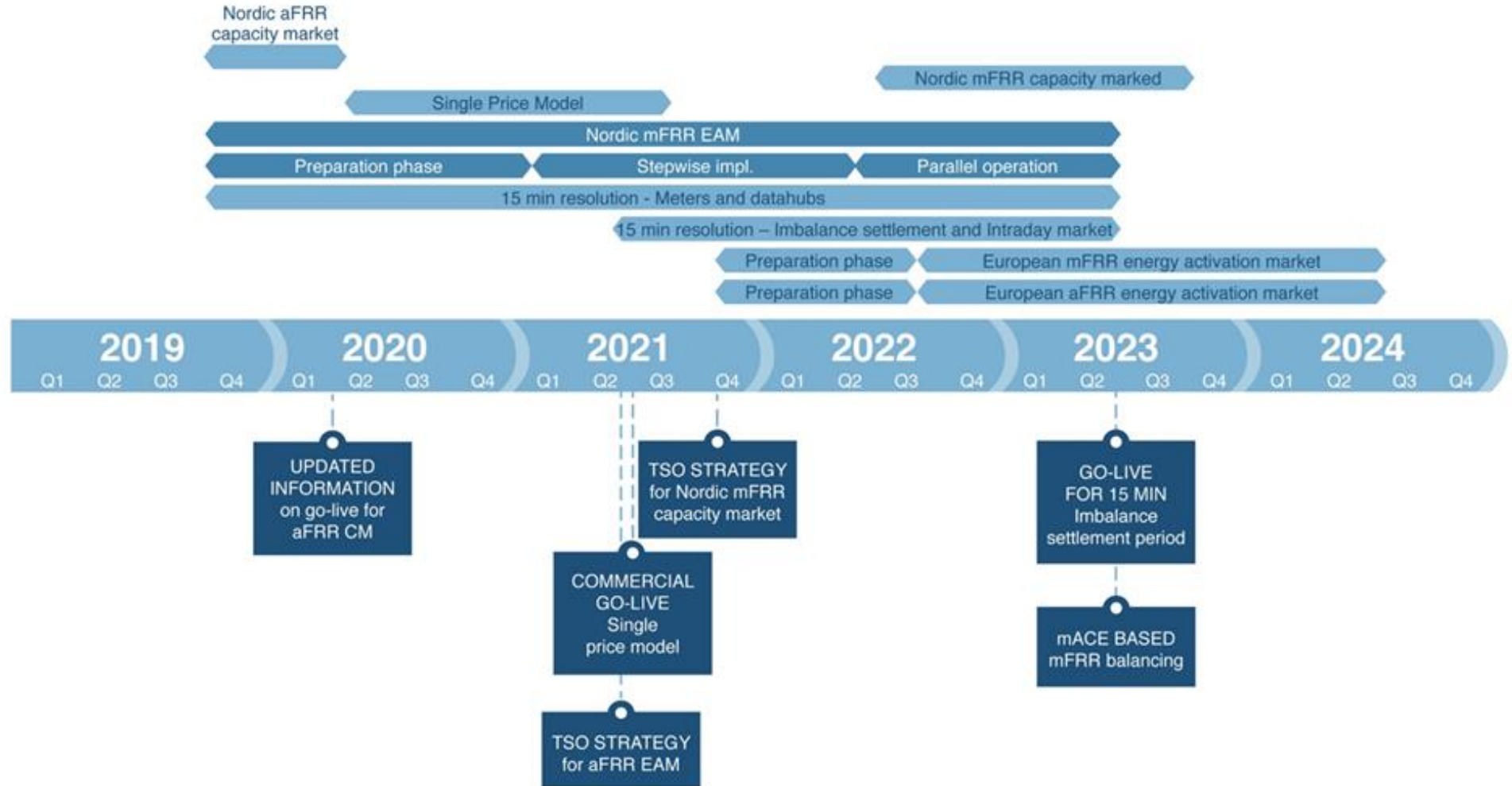
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# NBM Road map

Nordic Balancing Model



# Single price model and imbalance settlement harmonisation

Milestone	Date	Uncertainty indication	Description
European NRAs approve the proposal on imbalance settlement harmonization	2020-01-14		<b>Description of milestone:</b> European NRAs approve the proposal on imbalance settlement harmonisation. <b>Change in uncertainty indication:</b> Proposal was referred to ACER on 2020-01-14.
Nordic TSO paper on production plans and monitoring	March 2020		<b>Description of milestone:</b> Paper describing current requirements for production plans and imbalances, including the monitoring of imbalances, in the Nordics.
Implementation plan for Single price model stakeholders	June 2020		<b>Description of milestone:</b> Publication of implementation plan for changing to Single price model.
<b>New:</b> ACER decision on imbalance settlement harmonisation proposal	2020-07-14		<b>Description of milestone:</b> ACER decision on imbalance settlement harmonization. Date is the final deadline, but a decision may come earlier.
Energinet will onboard eSett	2021-02-01		<b>Description of milestone:</b> Energinet will onboard eSett stepwise. By this milestone, imbalance settlement is moved to eSett. The implementation of this milestone is not part of NBMs scope. Assumptions: Non-conflicting pipeline with NBM's ordering for eSett.
Updated national terms and conditions for BRPs to implement the Single price model	Q2-2021		<b>Description of milestone:</b> After national regulatory approval, the national terms and conditions are updated.
Commercial go-live of the Single price model	Q2-2021		<b>Description of milestone:</b> Single price model is operational in all Nordic countries. <b>Change in uncertainty indication:</b> Implementation has been confirmed by NBSC (2020-01-24). Single price model to be implemented without dual pricing on divergent ISPs.

# Request for derogation, 15 min metering and datahubs

MILESTONE	DATE	UNCERTAINTY INDICATION	DESCRIPTION
TSO submission of request for derogation of 15 min ISP	2020 06-18	●	Description of milestone: TSO submission of request for derogation to NRAs.

MILESTONE	DATE	UNCERTAINTY INDICATION	DESCRIPTION
Regulation of 15 min metering	TBD		Description of milestone: Regulation clarify consumption meters, exchange meters and production meters, in scope for transition to 15 min time resolution.
Commercial go-live datahub Finland	2022 02-01	●	Description of milestone: By this point the Finnish datahub will go-live and be able to receive data in 15 min resolution. The implementation of this milestone is not part of NBM scope, but a national initiative.
Commercial go-live datahub Sweden	2022 11-01	●	Description of milestone: By this point the Swedish datahub will be able to receive data in 15 min resolution. The implementation of this milestone is not part of NBM scope, but a national initiative. Assumptions: The assumption is that this milestone will not impact NBM roadmap. Increased certainty at this point: 2020-06-01: Confirmation of plan for Swedish data hub.

# aFRR capacity market

MILESTONE	DATE	UNCERTAINTY INDICATION	DESCRIPTION
NRA Request for amendment aFRR capacity market	2019-10-17	●	Done
Submission of amended proposal aFRR capacity market	2019-12-17	●	Done
Approved aFRR market methodology	2020-02-17	●	<ul style="list-style-type: none"> <li>No agreement among NRAs. The proposal is sent to Acer</li> <li>Some of the issues where the NRAs did not agree:               <ul style="list-style-type: none"> <li>aFRR CM before flow based (EB GL 38(5))</li> <li>Optimisation process and setting capacity available for aFRR CM</li> <li>Settlement – based on average price, not price in each area</li> <li>Lack of justification and assessment</li> </ul> </li> <li>Will follow standard ACER process</li> </ul>
Updated information on go-live for aFRR capacity market	2020-03-01	●	<b>Description of milestone:</b> Nordic TSO's will publish updated information regarding status for commercial go-live of Nordic aFRR capacity market.
Updated terms and condition aFRR capacity market	2020-05-17	●	<p><b>Description of milestone:</b> National terms and conditions are updated according to Nordic regulatory approval of aFRR capacity market, within 3 months after approval.</p> <p><b>Reason for uncertainty:</b> Process for updating national terms &amp; conditions differs in the Nordic countries. High uncertainty in relation to Nordic approval of aFRR capacity market methodology.</p> <p><b>Increased certainty at this point:</b> 2020-02-17: when NRA provides formal feedback on aFRR capacity market methodology.</p>
Commercial go-live of Nordic aFRR capacity market	TBD, earliest Q3 2020		<p><b>Description of milestone:</b> Common Nordic aFRR capacity market is operational.</p> <p><b>Assumptions:</b> Nordic aFRR capacity market including cross-border aFRR capacity exchange.</p> <p><b>Reason for uncertainty:</b> Ongoing regulatory process with several open points, including cross border capacity exchange.</p> <p><b>Increased certainty at this point:</b> 2020-02-17: when NRA provides formal feedback on aFRR capacity market methodology.</p>
DK1 part of Nordic aFRR capacity market	TBD		<b>Description of milestone:</b> DK1 joins the common Nordic aFRR capacity market.

# mFRR energy activation market

MILESTONE	DATE	UNCERTAINTY INDICATION	DESCRIPTION
Start pilot electronic ordering Sweden	2020-05-01	●	<p><b>Description of milestone:</b> Automation of mFRR energy activation market requires electronic ordering of mFRR activations. It is necessary to perform a pilot in Sweden before full electronic ordering can be mandatory in Sweden (in the other Nordic countries electronic ordering mainly exist).</p> <p><b>Change in uncertainty indication:</b> Uncertainty if technical solution will be available in time, both at TSO and market participants. No major delay expected.</p>
IT implementation plan for mFRR energy activation market participants	2020-11-01	●	<p><b>Description of milestone:</b> Publication of implementation plan containing IT guides, test plans and practical information for participation in Nordic mFRR energy activation market.</p>
Full scale electronic ordering of mFRR activation	2021-10-24	●	<p><b>Description of milestone:</b> Automation of mFRR energy activation market requires electronic ordering of mFRR activations. At this milestone it shall be possible to do electronic ordering of activation of all mFRR bid activations.</p> <p><b>Assumptions:</b> Assuming successful pilot of electronic ordering in Sweden.</p>
Automatic bid selection and ordering of mFRR scheduled activation	2022-04-16	●	<p><b>Description of milestone:</b> The process for mFRR scheduled activation is ready to be put into operation. From this point in time, mFRR can be activated both by automatic solution and manually. Operators can verify if the new solutions are functioning well with 60 min ISP.</p> <p><b>Assumptions:</b> Assuming that major parts of changes in processes, organizations and IT-solution are in place.</p> <p><b>Reason for uncertainty:</b> Uncertainty indication is orange due to a large scope where several of the parts have a significant uncertainty at this point in time.</p>
mACE based mFRR balancing	Q2 2023	●	<p><b>Description of milestone:</b> mACE based balancing is defined as the deadline for when balancing requests shall be based on price area imbalances, not frequency as today.</p> <p><b>Assumptions:</b> Nordic automation and implementation of Nordic AOF succeed.</p> <p><b>Reason for uncertainty:</b> Uncertainty indication is orange due to a large scope where several of the parts have a significant uncertainty at this point in time.</p>

# Activating products – probable changes

- In the memo "Process for activating products", under the heading "Products", we have described changes in products:
  - There is no planned changes to what is described in paragraph starting with: "In time for the introduction of 15 minutes time resolution"
  - In the paragraph "Before the Nordic TSOs join the MARI platform", we now think it will be necessary to introduce "new format and protocol for bid interface between BSP and TSO (for some TSOs)", before the introduction of 15 minutes time resolution.
- Background
  - To ensure automatic activation of bids we see that market participants must be able to give information on minimum activation volume, if bid is "all or nothing", start-up cost, location, etc. The consequence is that it is a need to support more bid attributes than is used today. At least in Norway and Sweden, this also makes it necessary to change format and protocol for mFRR energy activations bids.
  - The bid attributes we will propose to support, are attributes that MARI will support, or that do not impact the use of MARI.
  - Details in which attributes to support and implementation plan, will be discussed with market participants in national reference groups before decided. When it is more clear which attributes that will be supported, TSOs will update the memo "Process for activating products".



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Thank you for your attention