



# Nordisk mFRR EAM

- planer for idriftsættelse april 2023

*Torsdag d. 26. Januar 2023  
Teams møde*

# Agenda

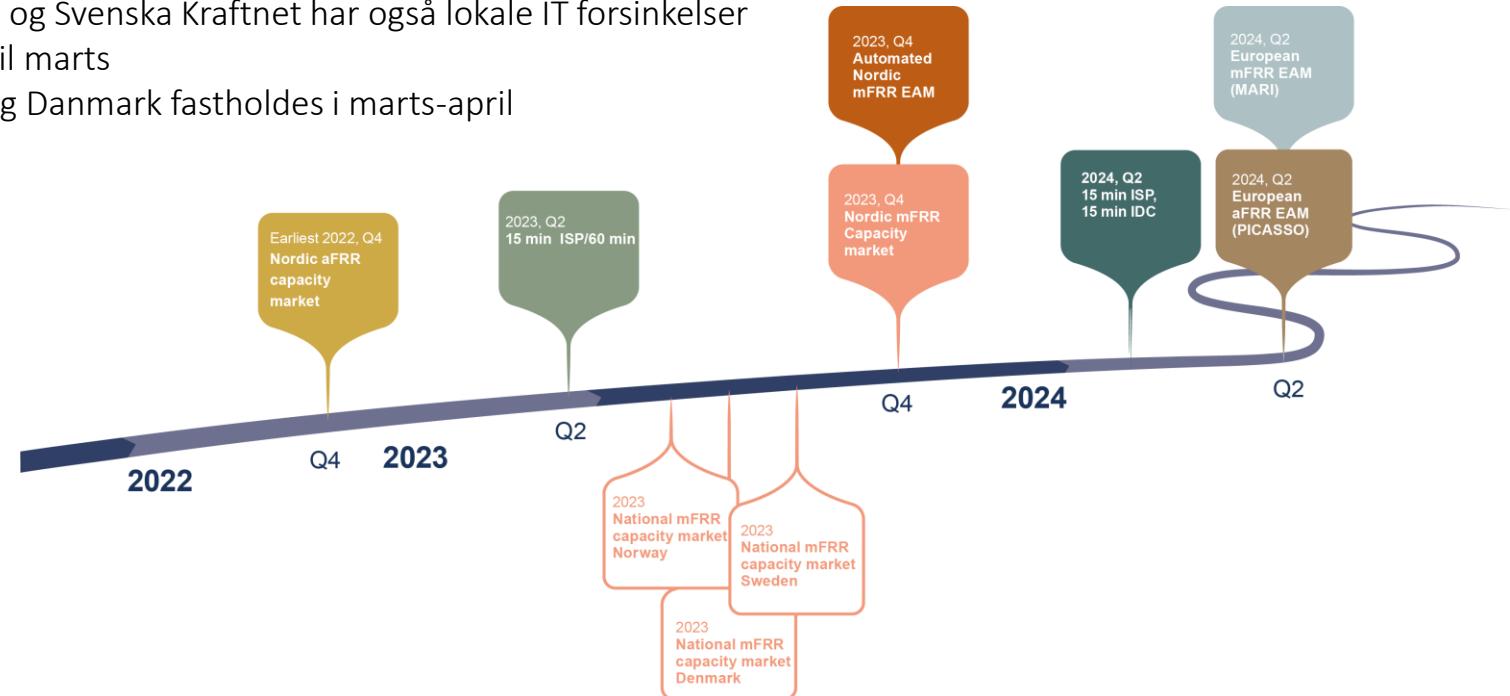


- Velkommen, praktik ift. møde
- Kort gennemgang af scope for april release
- Cutover plan, hypercare og test
- Diverse opdateringer
  - *Geotags*
  - *Ny implementation guide og eksempel filer*
- Dato for idriftsættelse

# NBM ROADMAP

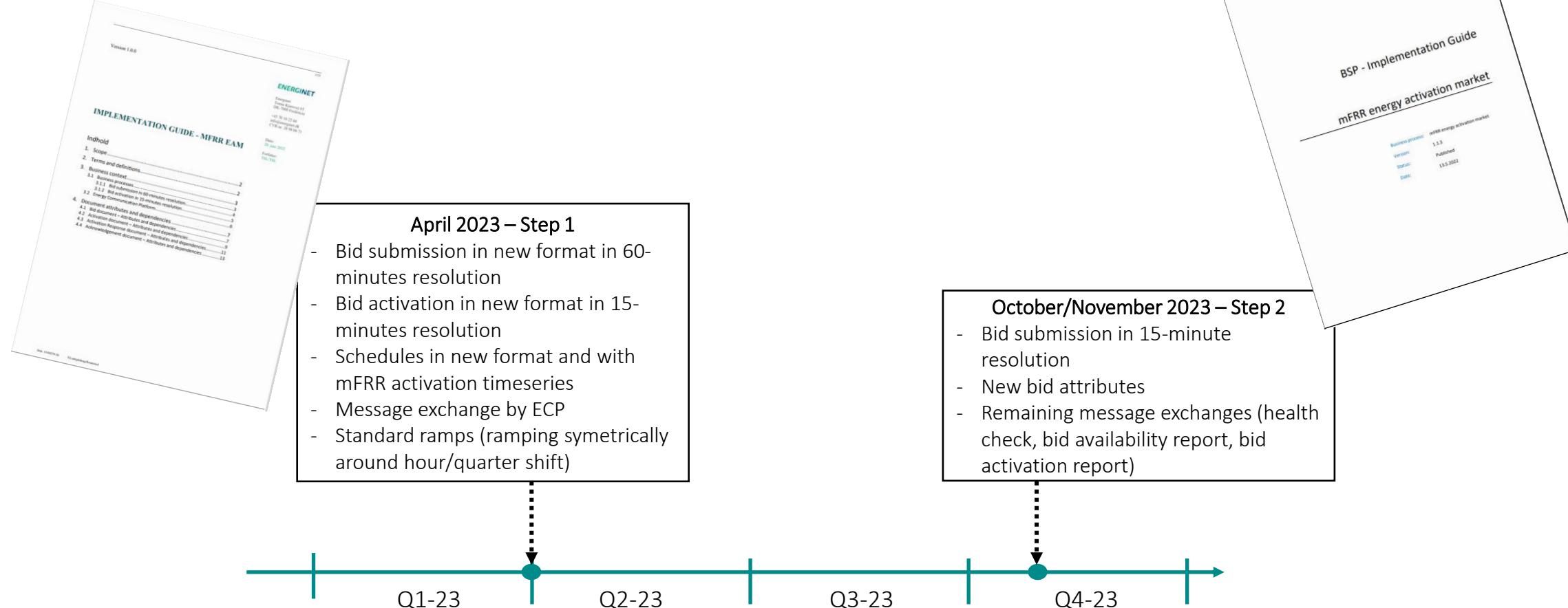
Status per januar 2023

- Nordisk aFRR kapacitetsmarked blev åbnet d. 7.dec 2022
- Nationalt mFRR kapacitetsmarked i Danmark og Norge planlægges idriftsat i juni, derefter kommer svensk mFRR CM i september
- Nordic mFRR EAM har meldt ud om forsinkelse ift. oktober/november go-live
- Nordic mFRR EAM go-live kan tidligst blive i Q1 2024, da mFRR EAM har en afhængighed til go-live for Flow Based capacity calculation. Statnett og Svenska Kraftnet har også lokale IT forsinkelser
- Ny dato for nordisk mFRR EAM go-live forventes klar til marts
- Plan for national BRP/BSP transition i Norge, Sverige og Danmark fastholdes i marts-april



# SCOPE FOR APRIL RELEASE

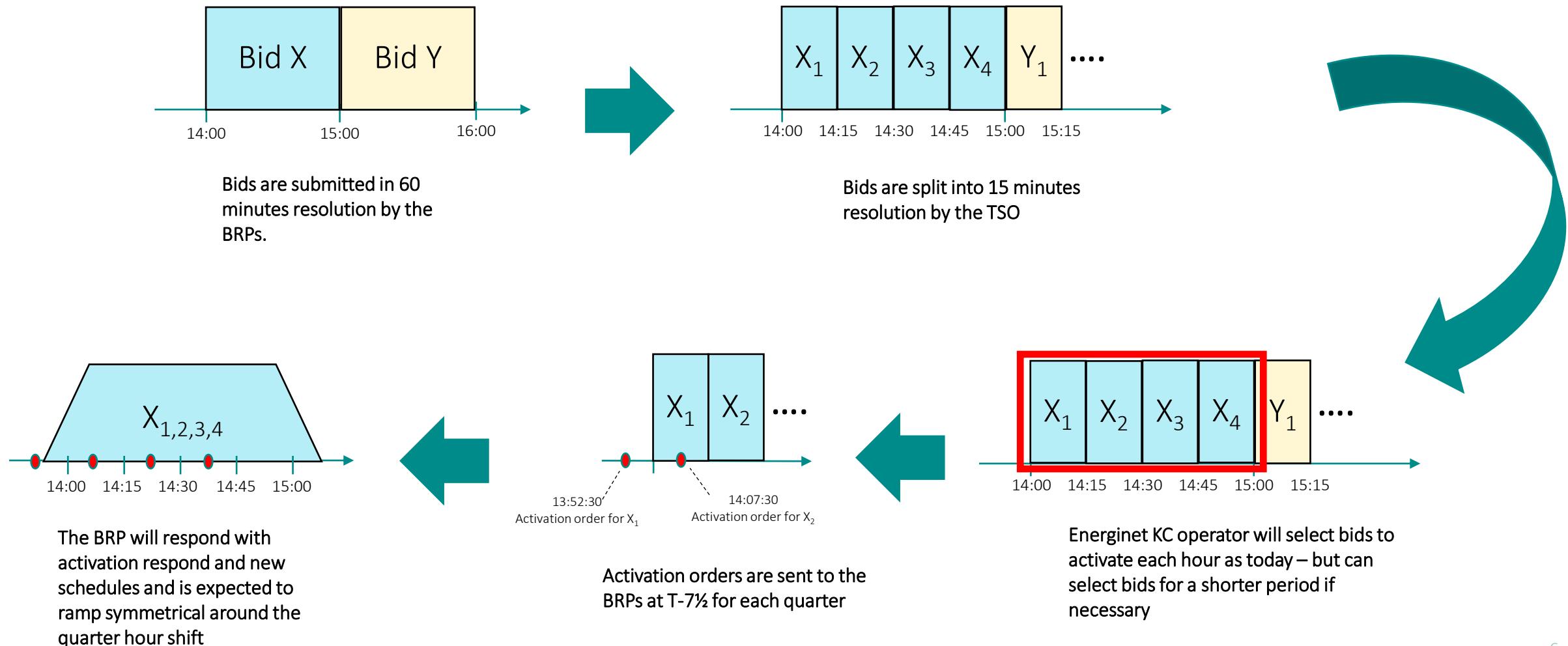
# STEPWISE IMPLEMENTATION



# THE mFRR EAM PROCESS APRIL 2023

15 minutes activation resolution – but still 60 minutes balancing timeframe

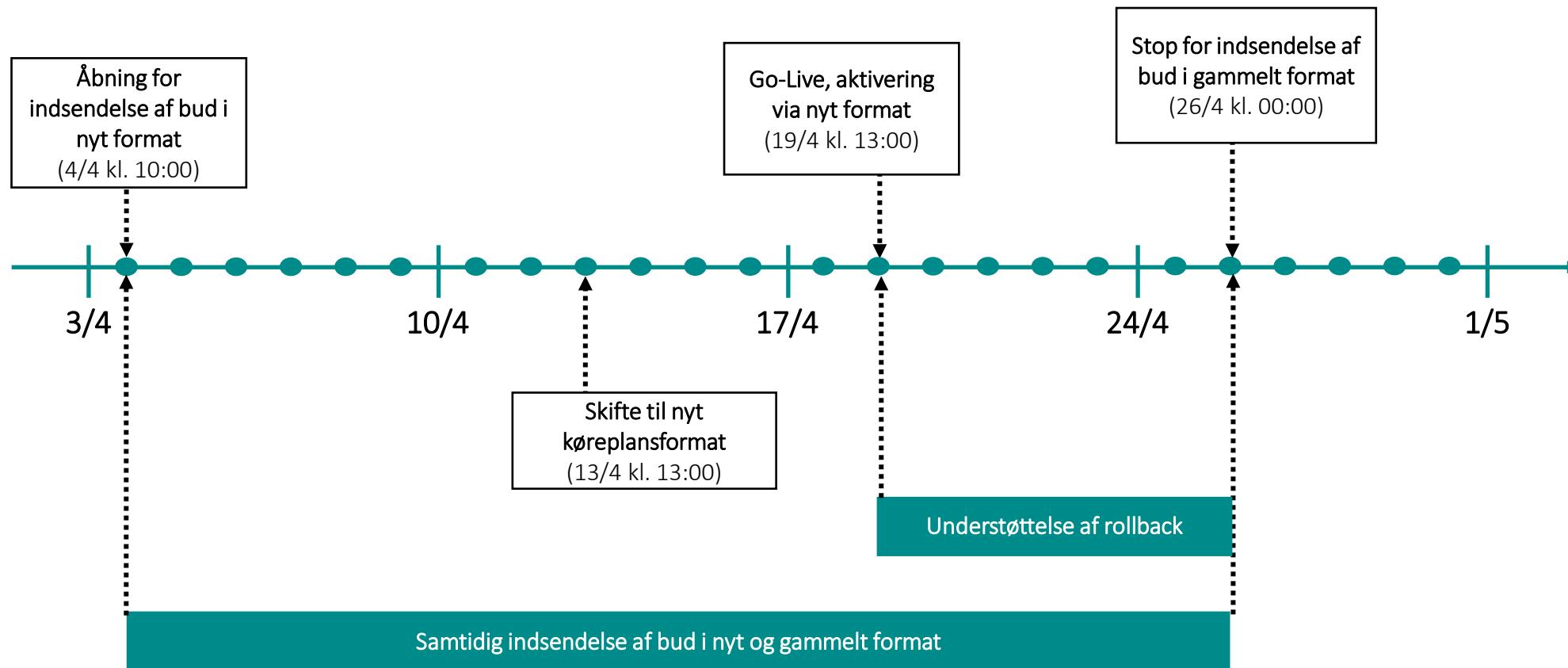
Scheduled Activation



# CUTOVER PLAN, HYPERCARE OG END-2-END TEST

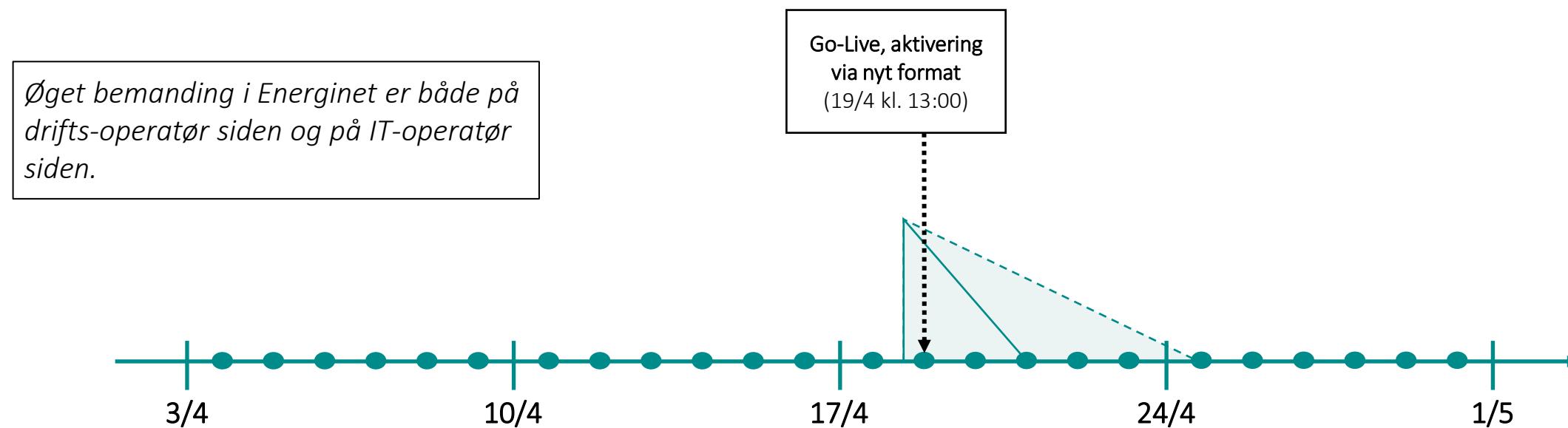
# TIDSLINJE FOR CUTOVER

Go-live dato er besluttet til den 19/4. Tidspunktet forventes at blive kl. 13:00, men det vil blive kommunikeret endeligt i et opfølgende aktørsmøde.



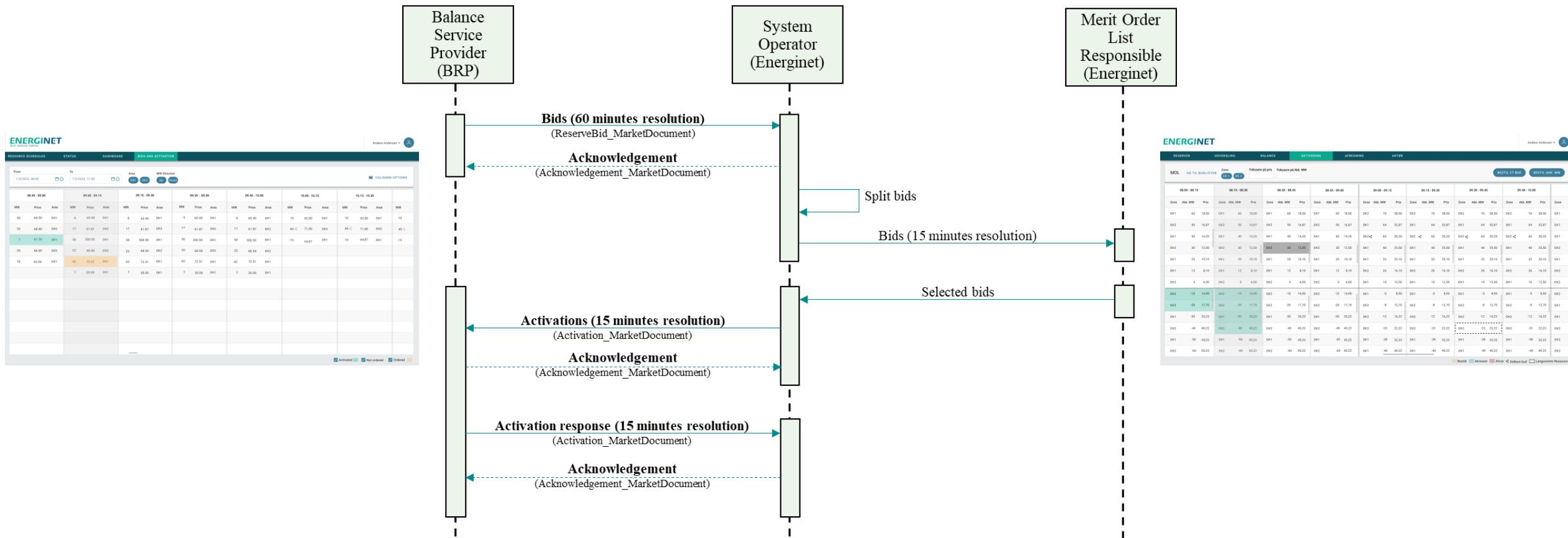
# HYPERCARE

Energinet har øget bemanding i forbindelse med go-live. Forventningen er, at øget bemanding opretholdes i 2 døgn, men kan udvides efter behov.



# END-2-END TEST

Scope - Test af komplet aktiveringsflow



+ Test af indsendelse af køreplaner

# END-2-END TEST

Muligt fra mandag d. 6. februar til og med fredag d. 17. februar.

For tilmelding send mail med angivelse af ønsket testdag til:

**Charlotte Bo Nielsen ([xchbn@energinet.dk](mailto:xchbn@energinet.dk))**

I vil herefter blive kontaktet med praktisk information om testen.

Dato	Aktør
6. Februar	-----
7. Februar	-----



# DIVERSE OPDATERINGER

# GEOTAGS

registeredResource.mRID skal indeholde den geografiske information, som pt. er "indkodet" i bud ID'et.

10/15

		10YDK-2-----M (DK2)
quantity_Measurement_Unit.name	M	MAW – megawatt
currency_Unit.name	M	EUR – euro
Divisible	M	A01 = Yes - quantity may be reduced to the minimum bid size by increments of 1 MW. When bid is divisible minimum_Quantity.quantity must be set to indicate the minimum allowed bid size. A02 = No - no reduction possible on the quantity, the bid is indivisible.
Status	M	A06 – Available
registeredResource.mRID	O	Name of the underlying ressource
flowDirection.direction	M	A01 – Up A02 – Down
energyPrice_Measure_Unit.name	M	MWH - Megawatt hours.
activation_ConstraintDuration.duration	M	Activation time - time for full activation of the physical resource including preparation time and ramping time

## 1. Revision history

Version	Date	Changed by	Comments
1.0.0	20.06.2022	Tage Søndergaard Larsen (TSL)	First published version of the guide
1.0.1	25.01.2023	Tage Søndergaard Larsen (TSL)	<p>Added:</p> <ul style="list-style-type: none"><li>- Added revision history chapter</li><li>- Added short paragraph on slower resources in chapter 4.1.1.</li><li>- Added min (5 MW) and max (50 MW) limits in the description of attribute quantity.quantity</li></ul> <p>Changed:</p> <ul style="list-style-type: none"><li>- Moved energy_Price.amount to after minimum_Quantity.quantity in ReserveBid_MarketDocument</li><li>- Changed maximum price from 5.000 EUR/MW to 10.000 EUR/MW in the bid characteristics table in chapter 4.1.1.</li><li>- Changed allowed minimum quantity for divisible bids from 0 MW to 5 MW (in attribute minimum_Quantity.quantity)</li><li>- quantity_Measurement_Unit.name</li><li>- Changed go-live date from «12<sup>th</sup> of April 2023» to «April 2023»</li></ul> <p>Corrected:</p> <ul style="list-style-type: none"><li>- Corrected spelling error in attribute measurement_Unit.name</li></ul>

# Ny implementation guide og nye eksemelfiler

Link: [Implementeringsguide mFRR-energiaktiveringsmarked \(energinet.dk\)](https://energinet.dk/~/media/energinet/dk/confs/2023/01/25/ny-implementation-guide-og-nye-eksemelfiler.ashx)

# SPØRGSMÅL TIL IG FOR KØREPLANER

Spørgsmål:

Hvordan angives en mFRR EAM nedregulering i det nye køreplansformat?

Svar:

Angives med negativt fortegn i mFRR EAM tidsserien. Tidligere version af IG angav, at negative værdier ikke er tilladt. Det er rettet i nyeste version.

**A97 (mFRR):** Indicates the amount of activated mFRR energy per facility/sum of fuel type with sign, with upward regulation indicated by a positive sign and downward regulation indicated by a negative sign. This time series must always be supplied. If ancillary services are not provided, the time series must be 0.

Example of use of signs for regulation:

Generation facilities that increase generation when activated supply a time series with a positive sign.

Demand facilities that reduce demand when activated supply a time series with a positive sign.



# DATO FOR IDRIFTSÆTTELSE



And the winner is: ....

A white wind turbine stands on a grassy hill overlooking a body of water under a blue sky.

SPØRGSMÅL?