



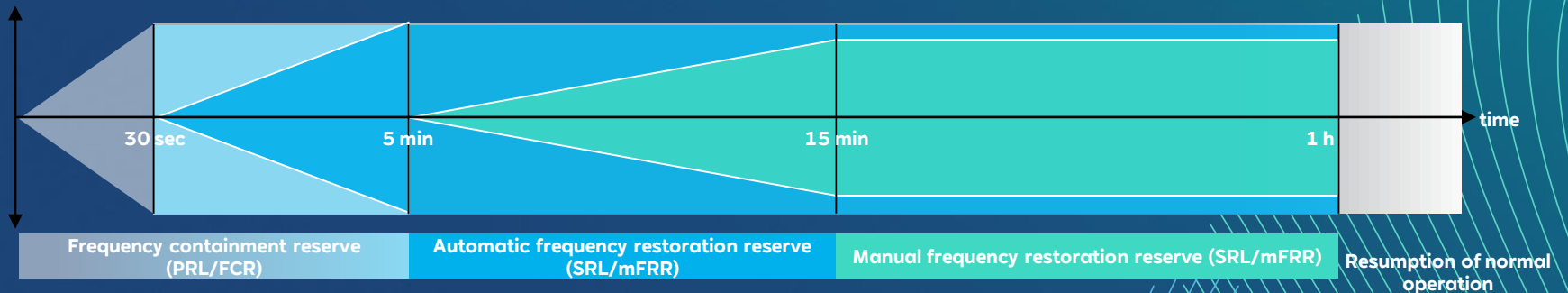
Profit from your own flexibilities

RWE Supply & Trading



RWE

- The prerequisite for stable grid operation is a constant balance between generation and consumption
- It is the responsibility of the TSO to keep the frequency close to the target of 50 Hz
- The TSOs have various types of control power with different characteristics at their disposal



- Automatic activation within 30 sec (for best-possible frequency)
- Covered period of time per fault: $0 < t < 15 \text{ min}$
- Automatic activation by transmission system operator
- Complete provision within a maximum of 5 min
- Activation of minute reserve by MOI
- Complete provision within 15 min
- Covered period of time per fault $t > 15 \text{ min}$ up to several hours

RWE

Flexibility – products overview

FCR¹

- Daily tender:
D-14 – D-1, 8:00 a.m.
- Calendar day in 6 product
time slots of 4 h each
- Minimum bid size
± 1 MW
- Surcharge according to
service price
- Activation time ≤ 30 sec as
ramp
- Retrieval duration ≤ 4 h

αFRR²

- Daily tender:
D-7, 10:00 a.m. – D-1, 9:00
a.m.
- Calendar day in 6 product
time slots of 4 h each
- Minimum bid size
± 5 MW
- Surcharge in ascending
order until demand is met
- Activation time automated
via remote control
technology ≤ 5 min as ramp
- Retrieval duration ≤ 4 h

mFRR³

- Daily tender:
D-7, 10:00 a.m. – D-1, 10:00
a.m.
- Calendar day in 6 product
time slots of 4 h each
- Minimum bid size
± 5 MW
- Surcharge in ascending order
until demand is met
- Activation manually
requested ≤ 15 min as ramp
- Retrieval duration ≤ 4 h

AbLaV

- Daily tender
- Minimum bid size
5 MW
(max. 200 MW)
- Surcharge according to
service price
- Activation time automated
via remote control
technology ≤ 5 min as ramp
- 4 VS < t < 32 VS at a time,
min. 16 VS per week

KapResV

- Tender:
01/04/2021 and every 2
years
- 5 MW; only one plant per
bid; per bid max. 20 loads
- Surcharge: competitive,
transparent and non-
discriminatory tender
- Activation time: min. 30% of
bid quantity within 15 min
- Up to 12 h each;
minimum of 6 h between
individual calls

¹ (FCR – frequency containment reserve), previously PRL | ² (αFRR – automatic frequency restoration reserve), previously SRL | ³ (mFRR – manual frequency restoration reserve), previously MRL