

9 December 2022

## Procurement of automatic Frequency Restoration Reserve (aFRR) in Q1/2023 (weeks 1-13)

The Nordic TSOs have decided to keep the current aFRR procurement schedule unchanged for Q1/2023. This means aFRR will be procured for hour 1 and hours 6-24 all days of the week, with a total volume of approximately 300 MW in most hours and approximately 400 MW in morning hours during weekdays. In the late evening hours, down-regulation is also approximately 400 MW.

The basis for the procurement is the agreed goal for frequency quality level, and the TSOs will continue to procure aFRR in the hours where the system balancing is most challenging.

Starting from Monday 2 January 2023, aFRR will be procured as detailed below in Central European Time (CET):

| aFRR - Nordic Volumes (MW) per hour – Q1/2023 |       |      |        |      |         |      |           |      |          |      |        |      |          |      |        |      |
|---|-------|------|--------|------|---------|------|-----------|------|----------|------|--------|------|----------|------|--------|------|
|   |       |      | Monday |      | Tuesday |      | Wednesday |      | Thursday |      | Friday |      | Saturday |      | Sunday |      |
| From  | To    | Hour | Up     | Down | Up      | Down | Up        | Down | Up       | Down | Up     | Down | Up       | Down | Up     | Down |
| 00:00   | 01:00 | 1    | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 01:00   | 02:00 | 2    |        |      |         |      |           |      |          |      |        |      |          |      |        |      |
| 02:00   | 03:00 | 3    |        |      |         |      |           |      |          |      |        |      |          |      |        |      |
| 03:00   | 04:00 | 4    |        |      |         |      |           |      |          |      |        |      |          |      |        |      |
| 04:00   | 05:00 | 5    |        |      |         |      |           |      |          |      |        |      |          |      |        |      |
| 05:00   | 06:00 | 6    | 400    | 400  | 400     | 400  | 400       | 400  | 400      | 400  | 400    | 400  | 300      | 300  | 300    | 300  |
| 06:00   | 07:00 | 7    | 400    | 400  | 400     | 400  | 400       | 400  | 400      | 400  | 400    | 400  | 300      | 300  | 300    | 300  |
| 07:00   | 08:00 | 8    | 400    | 400  | 400     | 400  | 400       | 400  | 400      | 400  | 400    | 400  | 300      | 300  | 300    | 300  |
| 08:00   | 09:00 | 9    | 400    | 400  | 400     | 400  | 400       | 400  | 400      | 400  | 400    | 400  | 300      | 300  | 300    | 300  |
| 09:00   | 10:00 | 10   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 10:00   | 11:00 | 11   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 11:00   | 12:00 | 12   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 12:00   | 13:00 | 13   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 13:00   | 14:00 | 14   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 14:00   | 15:00 | 15   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 15:00   | 16:00 | 16   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 16:00   | 17:00 | 17   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 17:00   | 18:00 | 18   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 18:00   | 19:00 | 19   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 19:00   | 20:00 | 20   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 20:00   | 21:00 | 21   | 300    | 300  | 300     | 300  | 300       | 300  | 300      | 300  | 300    | 300  | 300      | 300  | 300    | 300  |
| 21:00   | 22:00 | 22   | 300    | 400  | 300     | 400  | 300       | 400  | 300      | 400  | 300    | 400  | 300      | 300  | 300    | 300  |
| 22:00   | 23:00 | 23   | 300    | 400  | 300     | 400  | 300       | 400  | 300      | 400  | 300    | 400  | 300      | 300  | 300    | 300  |
| 23:00   | 00:00 | 24   | 300    | 400  | 300     | 400  | 300       | 400  | 300      | 400  | 300    | 400  | 300      | 300  | 300    | 300  |
| Hours/day:                                    |       |      | 20     | 20   | 20      | 20   | 20        | 20   | 20       | 20   | 20     | 20   | 20       | 20   | 20     | 20   |

Table: Detailed aFRR procurement scheme for Q1/2023.

The TSOs reassess the procurement scheme continuously based on the frequency quality and possible changes in the procurement scheme will be informed in advance.

Information about the procurement for Q2/2023 will follow in March 2023.



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