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UNOFFICIAL TRANSLATION

**Appendix 1**

**HANDBOOK CONCERNING BALANCE RESPONSIBILITY AND  
IMBALANCE SETTLEMENT**

**PART 1:**

**FINGRID OYJ'S GENERAL TERMS AND CONDITIONS CONCERNING  
BALANCE MANAGEMENT**

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## 1 Introduction

This document contains the terms and conditions related to national balance management in Finland and the general procedures that Fingrid Oyj (hereinafter Fingrid) applies as it maintains the electric power balance in Finland. This document was written on the basis of the provisions of the Electricity Market Act concerning system responsibility and balance management, Regulation (EU) 2019/943 of the European Parliament and of the Council on the internal market for electricity, and Commission Regulation (EU) 2017/2195 establishing a guideline on electricity balancing (hereinafter the EBGL).

These terms and conditions specify the rights, obligations, and responsibilities of a balance responsible party (hereinafter Balance Responsible Party) concerning the maintenance of the balance between energy production and energy consumption.

### 1.1 Definitions

The following definitions are used in this document:

**Open delivery** refers to the supply of electricity in which the electricity supplier provides its customer with all the electricity it needs, as well as the supply of electricity in which the supplier balances the difference between the customer's electricity production and procurement and its electricity consumption and delivery by supplying the deficit or by receiving the surplus during each imbalance settlement period.

**Nordic Imbalance Settlement (NBS) Handbook** refers to the Nordic Imbalance Settlement (NBS) Handbook (Handbook), which is maintained by the imbalance settlement unit on assignment from Fingrid and concerns balance responsibility and imbalance settlement. The handbook conforms to these terms and conditions, and it contains procedures that further define these terms and a more detailed description of the implementation of imbalance settlement.

**Shared power plant** refers to a power plant whose output is allocated to the holders of power plant shares in each imbalance settlement period, in accordance with the handling of shared power plants.

**Transmission area** refers to the area in which the production and demand facilities are located. There are two transmission areas in Finland: north and south of 64° latitude.

**Regulation object** refers to a group of one or more generators and production units in a single transmission area. A Regulation Object can contain only one type of production (wind, water, nuclear, etc.). There can only be one Balance Responsible Party per Regulation Object.

**Imbalance adjustment** refers to an energy volume representing the balancing energy from a balancing service provider and applied by the connecting transmission system operator for an imbalance settlement period to the concerned balance responsible parties, used for the calculation of the imbalance of these balance responsible parties.

**Balancing energy market** refers to the energy market maintained by Fingrid from which Fingrid procures the manual Frequency Restoration Reserve (mFRR).

**Imbalance settlement** refers to a financial settlement mechanism for charging or paying balance responsible parties for their imbalances.

**Imbalance settlement period** refers to the time unit for which the balance responsible parties' imbalances are calculated.

**Imbalance settlement unit** refers to the operating unit, subsidiary, or associated company of the transmission system operator with system responsibility that carries out the tasks related to the national Imbalance Settlement.

**Imbalance energy** refers to the electrical energy provided by the balance service provider and used by transmission system operators for balancing the network. In this document, **balancing energy**.

**Balance responsible party** refers to the electricity market party that is responsible for the said market party's imbalances. They have a valid balance agreement with Fingrid. In other words, the party's open supplier is Fingrid.

**Balance responsibility** refers to the responsibility for ensuring that a party's production and procurement in an electricity trade cover its consumption and the supply of electricity during each imbalance settlement period. All parties to electricity trades have a balance responsibility.

**Power transactions** refer to the power transactions made by Fingrid during the imbalance settlement period for the purposes of balance management and, where appropriate, taking care of other system responsibilities. An imbalance adjustment is recorded in the imbalance settlement for power transactions and applied to the balance responsible parties concerned during the imbalance settlement period and used to calculate the said balance responsible parties' imbalances.

**Production plan** refers to the planned production for the imbalance settlement period announced by the balance responsible party before the imbalance settlement period.

## 2 National balance management

National balance management refers to the maintenance of the energy balance between electricity production and consumption in Finland as a whole.

As part of its system responsibility, Fingrid is responsible for maintaining a momentary balance between electricity production and consumption during each imbalance settlement period.

Balance management is managed on a joint Nordic level so that the quality requirements set for frequency are fulfilled and system security is not endangered.

## 3 Balance Responsible Party's energy balance and imbalance

The Balance Responsible Party shall plan and control its energy purchases and deliveries so that the imbalance during the imbalance settlement period remains reasonable with respect to the scope of the Balance Responsible Party's operations. The Balance Responsible Party shall not use open deliveries for systematic energy purchases or deliveries. In assessing reasonable and systematic use, Fingrid looks at the Balance Responsible Party's abilities to maintain its energy balance in the electricity market and the recurrence of imbalances.

The Balance Responsible Party shall immediately take the necessary corrective measures in the event of an imbalance that is significant in relation to the size of its balance.

If imbalance settlement information indicates that the Balance Responsible Party's energy balance is not in balance in a manner accepted by Fingrid, the Balance Responsible Party shall provide Fingrid, upon request, with details of the reasons for the imbalance without delay and shall take any immediate action required by Fingrid to correct its imbalance. Failure to take the required action shall be considered a material breach of contract.

## **4 Production plans**

The Balance Responsible Party shall provide Fingrid with production plans for each regulation object in each imbalance settlement period concerning the power plants included in its balance. The accuracy of the production plans in relation to the total volume of electricity generated must be reasonable, taking into consideration the predictability of the mode of production.

Reasonable accuracy shall be evaluated by comparing the production plan received most recently within the acceptable time limits with the balance responsible party's actual production volume.

If the production plans are not reasonably accurate, the Balance Responsible Party must provide Fingrid, upon request, with details of the reasons without delay and must take the action required by Fingrid to rectify its production plans.

Fingrid shall be entitled to publish quality details related to the production plans of balance responsible parties.

### **4.1 Formation of production plan**

A production plan must be prepared for all power plants with a capacity of at least 1 MW, based on the following principles.

The regulation objects related to production plan consist of one or more power plants of the same production type located in the same transmission area.

Power plants that are under 10MW can be assigned to a single regulation object. A separate regulation object shall be established for all power plants of more than 10 MW. Alternatively, power plants located within the same transmission area and regulated as a single entity—such as a river system—may be treated as a single regulation object under the following conditions.

- In addition to the regulation object-specific production plan, the balance responsible party must also submit power plant-specific production plans for the regulation object with the available level of detail. The power plant-specific production plans must be updated whenever the allocation of production between the power plants within the entity changes.
- The balance responsible party must report the power plants forming the entity to Fingrid in advance.

Shareholder-specific Regulation Objects shall be established of a Shared Power Plant. The Balance Responsible Party of each shareholder of a Shared Power Plant shall

deliver the shareholder-specific Production Plan of a Shared Power Plant to Fingrid, itemised by the Regulation Objects. If so separately agreed, the Balance Responsible Party of a Shared Power Plant can deliver, on behalf of the Balance Responsible Parties of the other shareholders, their shareholder-specific Production Plans to Fingrid. Shareholder-specific Regulation Objects do not need to be established from Shared Power Plants of less than 10 MW if they do not take part in the balancing energy market or if they are not used for making other balancing transactions.

The Balance Responsible Party is responsible for assigning production units within its balance responsibility to regulation objects and production plans no later than 14 full days before the first day of delivery (reported to Fingrid). The production types specified in the valid *Nordic Imbalance Settlement (NBS) Handbook* published by the Imbalance Settlement Unit shall be used in the establishment of a Regulation Object.

In addition to what has been described above, the Balance Responsible Party shall deliver to Fingrid, upon request, an up-to-date itemised list of the power plants included in the Regulation Objects. If the information changes, Balance Responsible Party shall deliver the updated information to Fingrid without delay.

Fingrid has a right to demand Production Plans, which differ from those described above, for the needs of power system management.

## 4.2 Delivery of production plans

The Balance Responsible Party shall supply Fingrid with preliminary production plans for the next day's imbalance settlement periods in either Ediel or ENTSO-E message format by 5:30 pm. If the plans change, the Balance Responsible Party shall deliver the updated information to Fingrid without delay, no later than 45 minutes (T-45) before the start of the imbalance settlement period.

The production plan must be available to Fingrid by the deadline. The most recent information received before the deadline always supersedes earlier information on the same matter.

In addition, the Balance Responsible Party must update the production plans no later than 25 minutes (T-25) before the start of the imbalance settlement period when trading in the intraday market in the period between T-45 and T-25.

The reporting of production plans shall take place in accordance with the applicable *General application instructions for Ediel messaging* or, when using ENTSO-E and ebiX message formats in accordance with the Nordic Imbalance Settlement (NBS) model, the relevant instructions and the *Nordic Imbalance Settlement (NBS) Handbook*. The instructions can be found on Fingrid's and eSett Oy's websites. Moreover, Fingrid's separate guidelines shall be followed.

In the event of disturbances in message communications experienced by a Balance Responsible Party, the Balance Responsible Party shall immediately inform Fingrid's Main Grid Control Centre of the problems and deliver the production plans primarily via the extranet service or by email to Fingrid's Main Grid Control Centre by the deadlines specified under item 4.2.

In the event of disturbances in Fingrid's message communications or in the receiving system, the production plans shall be received by the system after the disturbance is over. If messages received during the disturbance have disappeared as a result of the disturbance, the Balance Responsible Party can update the Production Plans for the period of the disturbance.

## 5 Energy transactions during imbalance settlement periods

Fingrid makes energy transactions during each imbalance settlement period for the purposes of balance management and, where appropriate, handling other system responsibilities.

For the power balance management in Finnish electricity system, Fingrid has the right to transfer the planned production changes to different imbalance settlement period. The imbalance inflicted on a Balance Responsible Party from this transfer is corrected by means of a energy Transaction between Fingrid and the Balance Responsible Party, where the electricity volume corresponds to the volume of electricity generated or not generated as a result of the transfer. For a justified reason, the Balance Responsible Party shall be entitled to refuse the implementation of energy transaction.

When Fingrid purchases energy transaction from the Balance Responsible Party, the price shall be one of the following, whichever is more advantageous to the Balance Responsible Party:

- The price in the Finland bidding area of the day-ahead market adjusted to be 10 per cent more advantageous to the Balance Responsible Party, or
- The up-regulation price specified in the terms and conditions for providers of manual Frequency Restoration Reserves (mFRR).

When Fingrid sells energy transaction to the Balance Responsible Party, the price shall be one of the following, whichever is more advantageous to the Balance Responsible Party:

- The price in the Finland bidding area of the day-ahead market adjusted to be 10 per cent more advantageous to the Balance Responsible Party, or
- The down-regulation price specified in the terms and conditions for providers of manual Frequency Restoration Reserves (mFRR).

If the prices in the Finland bidding area of the day-ahead market for the imbalance settlement periods differ from each other, the price of the hour which is more advantageous to the Balance Responsible Party shall be used.

### 5.1 Handling of Balancing Energy in Imbalance Settlement

Fingrid procures reserves from reserve providers based on separate agreements. The balancing energy created in the activation of the **Frequency Containment Reserve for Normal Operation** and the automatic frequency restoration reserve shall be calculated for each imbalance settlement period, and the impact shall be offset from the energy balance of the reserve provider's Balance Responsible Party in the national imbalance settlement.

The calculation principles and compensation criteria for balancing energy are specified in the reserve agreements between Fingrid and the reserve providers, and a more detailed description of the principles for calculating the balancing energy can be found in the documents concerning the terms and conditions for reserve providers.

In the procurement of reserves, Fingrid follows the principles of impartiality and non-discrimination. The procurement of the reserves is founded on market-based procedures. The valid principles of procurement can be found in the documents concerning the terms and conditions of the Reserve Providers.

## **6 Procedure in exceptional circumstances of the power system**

### **6.1 Control of electricity shortage and overproduction situations**

Operation in electricity shortage situations is based on the instruction for the management of energy shortage situations in the Finnish electricity system (*Suomen sähköjärjestelmän sähköpulatilanteiden hallinta*), published by Fingrid on its website.

If the electricity production and consumption situation becomes compromised, a Balance Responsible Party shall check the Production Plans and consumption forecasts and deliver the updated information to Fingrid.

In situations where an electricity shortage or overproduction is possible or the risk of an electricity shortage is great, and in an electricity shortage or a serious overproduction situation, a Balance Responsible Party is responsible for managing its own energy balance and for controlling production and consumption in accordance with the instructions issued by Fingrid's Main Grid Control Centre.

### **6.2 Management of serious disturbances**

Operation in the serious disturbances of the power system is based on the general instruction for the clearing of serious disturbances in the power system (*Sähköjärjestelmän vakavien häiriöiden selvittämisen yleisohje*), published by Fingrid on its website.

In serious disturbances of the power system, Fingrid's Main Grid Control Centre provides a Balance Responsible Party with the necessary instructions for balance management during the disturbance. In these cases, a Balance Responsible Party shall maintain its electricity balance in accordance with the instructions provided until the Main Grid Control Centre gives further instructions.

In serious disturbances, Fingrid activates first the unused bids available in the balancing energy market as well as the available fast disturbance reserve. If the serious disturbance can be brought under control through these means, the principles of a normal state are applied to the processing and pricing of the imbalance.

If the power system cannot be restored to the normal state through the above measures due to the severity or nature of the disturbance, Fingrid's Main Grid Control Centre has the right to give power plants instructions concerning active power and reactive power, have other reserves in the system started and disconnect loads. The measures carried out have a direct impact on a party's measured deliveries and thus on the amount of the imbalance. The imbalance caused by such a single production restriction to the party's Balance Responsible Party is corrected in the hour of the restriction and in the following hour with a power transaction, with a price of zero in the imbalance settlement. Otherwise the imbalance is settled with the party's Balance Responsible Party according to the terms and conditions of the Balance Responsible Parties.

## **7 Communications**

Fingrid must be able to reach a Balance Responsible Party or its authorised representative 24 hours a day every day of the year. The persons or authorised representative specified in the Balance Responsible Party's contact information shall be entitled, in a manner that binds the Balance Responsible Party, to receive notifications given by Fingrid and to take any immediate action relating to balance maintenance to which these terms and conditions oblige the Balance Responsible Party.

## **8 Fingrid's reporting to balance responsible parties**

Fingrid presents the following information on its extranet for each imbalance settlement period only to the balance responsible parties entitled to receive such information:

- The production plans delivered by the Balance Responsible Party and the total production plan calculated by Fingrid for each imbalance settlement period.
- Hourly energy information on energy transactions during the imbalance settlement period between the Balance Responsible Party and electricity market parties included in its balance responsibility, on one the hand, and Fingrid, on the other hand. Provisional data shall be presented after the delivery hour, and final data no later than 13 days after the delivery day.

The information can also be reported as Ediel messages, if requested.

## **9 Breach of terms**

If a contracting party breaches the terms of the Agreement, the party must immediately provide the other contracting party with an explanation of the reasons for the breach and must begin taking remedial action.

If the breach is recurrent or otherwise material in nature, and the breach has not been remedied by a reasonable deadline set by the other party, the other party may cancel the agreement.

In addition, Fingrid shall be entitled to cancel the Agreement with immediate effect if the Balance Responsible Party is placed in liquidation, the equity capital of the Balance Responsible Party is registered as negative, or the Balance Responsible Party defaults on its payments, is declared bankrupt, shows other signs of insolvency, or otherwise grossly breaches the Agreement. Fingrid also has a similar right if the Balance Responsible Party does not have a valid Imbalance Settlement Agreement with the Imbalance Settlement Unit.

## **10 Damages**

The parties to the Agreement shall not be liable for damage caused by a performance within the scope of the Agreement, unless the damage is demonstrated to be the result of negligence by the party to the Agreement or one acting on its behalf, which cannot be considered to be minor. The parties to the Agreement shall not be liable to each other for indirect or consequential damages, such as loss of profits or damages

paid to a third party by a party to the Agreement, nor any other consequential damages, unless the damage has been caused intentionally or by gross negligence or by a breach of a confidentiality obligation.

## **11 Force majeure**

In the event of force majeure, Fingrid shall be entitled to limit the service provided under the Agreement or suspend it entirely, taking into consideration the requirements of compelling legislation.

Force majeure is an event that Fingrid could not have prevented with reasonable care and that renders Fingrid's performance under the Agreement impossible or fundamentally complicates it, or makes it financially or otherwise unreasonable.

Examples of force majeure include war, vandalism, sabotage, explosion, fire, extraordinary natural phenomenon, or another similarly significant and unusual event that causes either an outage in energy production or such damage to the energy production or transmission system that no reasonable contingencies could have been made under the principles generally applying to the Nordic power system.

Fingrid shall notify the Balance Responsible Party of the onset and cessation of force majeure without delay.

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