

RULES ON THE PUBLICATION OF ELECTRICITY MARKET FUNDAMENTAL DATA

**1. GENERAL PROVISIONS**

This Rule is drafted implementing Law no. 43/2015 “On Power Sector”, Law No. 9501 of date 03/04/2006 “On the ratification of the Treaty establishing the Energy Community”, European Commission Regulation No. 543/2013 of date 14 June 2013 “On the submission and publication of the data in electricity market and the amend of the Regulation Annex (EC) no. 714/2009 of the European Parliament and of the Council ” and Decision no.2015/01/PHLG-EnC, of date 24.06.2015 of the Energy Community Permanent High Level Group.

**1.1 OBJECT**

1.1.1 These Rules govern in detail the timely publication of all relevant data on the consumption, transmission, production and balancing market as key market data, and their availability to all energy market participants, as a prerequisite for non-discriminatory and transparent functioning of the electricity market.

1.1.2 These Rules also govern in detail the obligations of the Transmission System Operator, Distribution System Operator, closed Distribution System Operator, Electricity Producers and Consumption Units with regard to publication of market data and other issues necessary for their publication.

**1.2 DELIVERY AND PUBLICATION OF DATA**

1.2.1 The Transmission System Operator shall timely send for publication all relevant data relating to the total forecasted load and actual load, availability and use of reserved transmission capacity and capacity of interconnectors, forecasted generation and actual generation and data on the balancing electricity market laid down in these Rules (hereinafter Key Market Data) in accordance with the law governing the energy sector (hereinafter the Law).

1.2.2 The Transmission System Operator shall ensure the send for publication of Fundamental Market Data within deadlines and contents laid down in these Rules in such a way to make them available on the Central Platform for the Information Transparency

(EMFIP) of the European Network of Transmission System Operators for Electricity (hereinafter ENTSO-E) to all market participants.

1.2.3 ENTSO-E publishes on its Central Platform for the Information Transparency all the data that the Transmission System Operator shall submit/send to ENTSO-E, in conformity with this Rules.

1.2.3 For the purpose of Publication the Fundamental Market Data in accordance with these Rules , the Transmission System Operator shall use the information from the Distribution System Operator, closed Distribution System Operator, Electricity Producers (production and generation units) and Consumption Units if the data are submitted to the Transmission System Operator within the deadlines and in the contents laid down in these Rules.

1.2.4 Distribution System Operator shall submit to the Transmission System Operator the following information:

- Installed generation capacity aggregated of production units connected to the distribution system or closed distribution system;
- Total actual generation on the distribution system or closed distribution system for the accounting interval;
- Actual generation aggregated by type of generation on the distribution system or closed distribution system for the accounting interval;
- Total actual generation for solar power and total generation for wind power in the distribution system or closed the distribution system;
- Total day-ahead generation forecast on the distribution system or closed distribution system
- Total day-ahead generation forecast for solar power and total day-ahead generation forecast for wind power on the distribution system or closed the distribution system;

1.2.5 Electricity producer (production and generation units) shall submit to the Transmission System Operator the following information:

- Installed generation capacity aggregated on the Transmission System;
- Installed capacity of any generation unit connected in the Transmission System (clients in the liberalized market);
- Actual generation of any generation unit;
- Actual wind and solar power generation;
- Actual generation on the transmission system for the accounting interval
- Total day-ahead generation forecast of generators on the transmission system;

- Total day-ahead generation forecast for solar power and total day-ahead generation forecast for wind on the transmission system;
- Actual unavailability of generation unit;
- Actual unavailability of production unit;
- Planned unavailability of generation unit;
- Planned unavailability of production unit;
- Year-ahead forecast margin

1.2.6 The consumption units shall deliver at the Transmission System Operator the following information:

- Planned unavailability of the consumption units;
- Changes on the actual unavailability of the consumption units.

1.2.7 Transmission system operator shall provide the following information:

- The scheduled value of cross-border electricity exchange;
- Load forecast for day, week, month and year ahead;
- Year-ahead forecast margin;
- Development projects;
- Planned outages in the transmission grid;
- Changes in the actual availability of interconnections and the transmission grid;
- Forecasted cross-zonal capacity;
- Offered cross-zonal capacity;
- Yearly report about critical network elements limiting offered capacities;
- Use of transfer capacity - auctions;
- Use of transfer capacity - allocations;
- Total capacity nominated;
- Total capacity already allocated;
- Prices on the day-ahead organized electricity market;
- Total scheduled commercial exchange;
- Cross-zonal physical flows;
- Congestion management-re dispatching
- Congestion management - countertrading;
- Congestion management report;
- Rules on balancing;
- Amount of balancing reserve under contract;
- Prices of the reserved capacity of balancing reserves;
- Accepted aggregated offers (volumes);
- Volumes of activated balancing reserves;

- Prices of activated balancing reserves;
- Imbalance prices;
- Total imbalance volume;
- Monthly financial balance;
- Aggregated volumes of offers for cross-zonal balancing activation;
- Cross-zonal prices of the bids and offers for the imbalances;
- Volumes of cross-zonal area balancing energy activated;

1.2.8 The entities referred to in section 1.2.3, 1.2.4 and 1.2.6 above shall be responsible for timeliness, completeness and accuracy of data submitted to the Transmission System Operator and are considered as primary owners of the data that they deliver.

Except when it is differently provided on this rules as primary owner of all the other data is considered the Transmission System Operator.

1.2.9 The primary owners of the data deliver the data at the Transmission System Operator in conformity with points 3 to 6. They shall ensure that the data delivered to the Transmission System Operator are complete, on the required quality and ensured in such a way allowing the Transmission System Operator to elaborate and send these data at ENTSO-E on the appropriate time.

1.2.10 The data shall be submitted in conformity with the procedure manual of ENTSO-E which is submitted on Annex A of this rules.

The procedure manual specifies:

- a) the details and the form of delivering the data
- b) the standartized approaches and forms of communication and exchanging the data between primary owners of the data, Transmission System Operator, data providers and ENTSO-E;
- c) technical and operational criteria which shall be fulfilled by the provider of the data when providing the data to the central platform of information transparency;
- d) appropriate classification of types of generation refering to point 5.

1.2.11 The Transmission System Operator shall publish on the website the appropriate data regarding the operation of the transmission system to fulfill the obligations regarding transparency. These data on the Website shall be accessible by the official website ([www.ost.al](http://www.ost.al)) and shall include:

- data for the load
- data on generation
- data on transmission

- data on balancing
- data on interruptions
- data on congestion management

1.2.12 ERE ensures that primary owners of the data, the Transmission System Operator and the providers of the data shall respect their obligations according to this rules. In case of failure to deliver on time of the data from the Distribution System Operator, closed Distribution System Operator, the Electricity Producers (production and generation units) and the Consumption Units at the Transmission System Operator, the later shall immediately inform ERE on the procedures for the administrative offence according to the provisions of Law no. 43/2015 “On Power Sector” .

## **2. DEFINITIONS AND ABBREVIATIONS**

<b>2.1 DEFINITIONS</b>	<i>Certain terms used in these Rules shall have the following meaning:</i>
<b>Balancing reserve</b>	shall mean the available capacities for TSO purchased <i>ex ante</i> , on real time, or according to the legal obligations, for balancing purposes
<b>Net generation</b>	shall mean total actual production on the units connected in the transmission and distribution grid, within a control area in an accounting interval
<b>Consumption unit</b>	shall mean a unit that consumes electricity for its own use, except of the TSO-s and Distribution System Operators (DSO-s);
<b>Generation unit</b>	shall mean a power generator which corresponds to a production unit
<b>Production unit</b>	shall mean an object for power generation with one or more generating units
<b>Week</b>	time interval from Monday 00:00 to Sunday 24:00
<b>Type of generation</b>	generation determined depending on the resources used to produce electricity, defined according to the terms of these Rules can be: fossil - (brown coal / lignite, hard coal, gas coal, oil, oil shale, natural gas, peat); hydro - (dam or derivation); renewable - (wind, solar energy, geothermal energy, biomass,

	and other renewable resources according to the Law on renewable energy 7/2017)
<b>Balancing time unit</b>	shall mean the period of time for which it is set the price for the balancing reserves.
<b>Bidding zone</b>	shall mean the largest geographic area within which the market participants are able to exchange electricity without allocation of the capacities
<b>Capacities allocation</b>	shall mean the attribution of cross-zonal capacities
<b>Control area</b>	shall mean the coherent part of the interconnected system operated by a single operator of the system and includes physical connected loads and/or generation units, if any
<b>Net coordinate transmission capacity</b>	shall mean the calculation method of the capacities based on the <i>ex ante</i> evaluation and definition principle of maximum electricity exchange between nearby bidding areas
<b>Critical element of the grid</b>	shall mean an element of the grid within a bidding area or between the bidding areas which is taken into account in the process of capacities calculation, which limits the energy amount that may be exchanged
<b>Cross-control area balancing</b>	shall mean the balancing scheme where TSO-s may receive activation offers to coming from other TSO areas. Here is not included the redispatch or emergent electricity distribution
<b>Cross-zonal capacity</b>	shall mean the ability of the interconnected system to accomodate electricity transferring between the bidding areas;
<b>Currency</b>	shall mean Euro or ALL (the official currency of the country) according to the legal obligation of using each of them in the respective legal acts
<b>Cut-off time</b>	shall mean the point on time where TSO shall confirm all the compatible nominations in the market. The time of interruption is refered not only to the daily market or intra day market, but also different markets that include the regulations of the disbalances and reserves allocation
<b>Counter trading</b>	shall mean cross-zonal exchange initiated by the system operators between two bidding areas for the “release”/reduction of the physical congestion
<b>Data provider</b>	shall mean the entity that send the data to the central platform for the transparency of the information
<b>Explicit allocation</b>	shall mean the allocation only for the cross-zonal capacity, not including electricity
<b>Flow Based</b>	shall mean the available margin of the critical elements of the

<b>parameters</b>	grid together with the sensitivity factor PTDF
<b>Sensitivity factor PTDF</b>	shall mean the physical flow in a critical element caused by the balance change of the bidding area.
<b>Implicit allocation</b>	shall mean the method of managing the congestions where electricity is ensured on the same time with the cross-zonal capacity
<b>Time unit of the market</b>	shall mean the period for which it is set the market price or the common period the shortest possible for two bidding areas, in case the time units of the market differentiate from each other;
<b>Provided capacity</b>	shall mean the cross-zonal capacity offered in the market from the transmission capacity allocator
<b>Planned</b>	shall mean a known <i>ex ante</i> event by the primary owner of the data;
<b>Primary owner of the data</b>	shall mean the entity that establishes the data
<b>Profile</b>	shall mean the geographical border between a bidding zone and some closed/neighbouring bidding zones;
<b>Redispatch</b>	shall mean a measure that is activated by one or some system operators by changing the generation and/or the load to change the physical flows in the transmission system and facilitate the physical congestions
<b>Total load</b>	including the losses without the energy used for energy collection, shall mean the load equal to generation and any type of import from which are deducted the exports and the energy used for energy collection;
<b>Transmission capacities allocator</b>	shall mean the entity authorised by TSO to manage the cross-zonal capacity allocation process.
<b>Vertical load</b>	shall mean the total amount of electricity that comes out of the transmission grid toward the distribution grid to the end-use customers directly connected or to the consuming part of the generation.
<b>Year ahead forecast margin</b>	shall mean the difference between the annual forecast of the available generation capacities and the annual forecast of the maximum general load, having in account the forecast of the general generation capacity, the forecast of the available generation and the forecast of the reserves contracted for the ancillary services.
<b>Time</b>	Shall mean the local time in Brussels
<b>Central platform for</b>	The Central Platform for the Transparency of the Information

<b>the transparency of the information</b>	is an electronic platform available for the public, it is free, can be used by internet and is available at least on English language established by the European Network of Transmission System Operators for Electricity (ENTSO-E) to fulfill the obligations defined in the European Commission Regulation No. 543/2013 of date 14 June 2013
<i>The other terms used in this regulation shall have the meaning according to the Law and other approved by-laws implementing the law that regulate the transmission system operation, the market operation and the distribution of the cross-border capacity for the transmission system.</i>	

### **3. FUNDAMENTAL MARKET DATA ON CONSUMPTION**

#### **3.1. INFORMATION ON THE GENERAL LOAD**

3.1.1 The Transmission System Operator, for its control area, makes the calculations and sends them to ENTSO-E, for the respective area of offering the total load of the Transmission System (including the losses in the Transmission System) for each hour the average value of the current total load within an accounting interval according to the following formula:

**Total Actual load** = Net generation - Export + Import, where

**Net generation** represents total actual generation on the transmission and distribution threshold in the control area within the accounting interval.

“**Declared Export**” is the dispatching of electricity, corresponding to the amount of electricity delivered simultaneously to another country as declared import, based on contractual relationships.

“**Declared Import**” is the electricity delivered to a country and simultaneously dispatched as declared export from another country.

In case the electricity producer is not able to provide a measurement at the entry of the transmission system, he can provide it at the balancing entities measurement.

3.1.2 The generating units shall submit to the Transmission System Operator data on total generation of the units connected in transmission for the accounting interval.

3.1.3 Distribution System Operator or closed Distribution System Operator shall submit to the Transmission System Operator data on the actual total generation at the distribution

level or in the closed distribution system for the accounting interval maximum 30 minutes after each accounting interval.

3.1.4 The information referring point 3.1.1 shall be published every hour not later than one hour following the operation period

### **3.2. DAY-AHEAD FORECAST OF THE TOTAL LOAD**

3.2.1. Transmission System Operator, for his control area makes the calculations and send them ENTSO-E for the respective bidding area the forecast for the day ahead of the total load for time unit of the market.

3.2.2. This information is issued not later not later than two hours before the expiry of the deadline for the day ahead and is updated when important changes happen.

### **3.3 WEEK-AHEAD TOTAL LOAD FORECAST**

3.3.1 The Transmission System Operator, for his control area, makes the calculations and send them to ENTSO-E for his respective bidding area the forecast for the week in advance of the total load for each day of the following week, where each day shall include the maximum and minimum value of the total load.

3.3.2 This information is issued not later that two hours before the expiry of the deadline for the day in advance and is updated when important changes happen.

### **3.4 MONTH-AHEAD TOTAL LOAD FORECAST**

3.4.1 Transmission System Operator for his control area, makes the calculations and send them to ENTSO-E for his respective bidding area the forecast for the week in advance of the total load for each week of the following month, where each week shall include the maximum and minimum quantity of the total load.

3.4.2 The information shall be published not later than one week before the month of delivery and is updated when important changes happen.

### **3.5. YEAR-AHEAD TOTAL LOAD FORECAST**

3.5.1 Transmission System Operator, for his control area, shall make the calculations and send them to ENTSO-E, for his respective bidding area the forecat for the year in advance of the total load for each week of the following year, where each week shall include the maximum and minimum quantity of the load.

3.5.2 The information shall be published not later than 15 calendar days of the month before the year to which the data relate.

### **3.6. INFORMATION REGARDING THE UNAVAILABILITY OF THE CONSUMPTION UNITS**

3.6.1 Transmission System Operator, for its control area, sends to ENTSO-E the information for the planned unavailability of about 100 MW or more of a consumption unit, including the changes of about 100 MW or more in the planned unavailability of the consumption units, that last at least one time frame of the market.

3.6.2 The consumption units set in the control area of the Transmission System Operator calculate and deliver the data defined on paragraph 3.6.1 specifying:

- a) the bidding zone;
- b) available capacity for the time frame of the market during the event;
- c) unavailability reason;
- d) expected date for the beginning and the end (day, hour) of the availability change;

3.6.3 The consumption units shall deliver to the Transmission System Operator the information according to point 3.6.2 as soon as possible but not later than 1 hour after taking the decision.

3.6.5 The information defined on point 3.6.1 shall be published in a summarised form for the bidding zone identifying the amount of the consumed capacity that is not available for the time frame of the market, during a defined period, as soon as possible, but not later than one hour after taking the decision regarding the planned unavailability.

### **3.7. CHANGES ON THE ACTUAL UNAVAILABILITY OF CONSUMPTION UNITS**

3.7.1 Transmission System Operator for his control area, send to ENTSO-E the information for the changes on the actual availability of the consumption unit with a power rating of 100 MW or more.

3.7.2 The consumption units shall submit to the Transmission System Operator the following information on the consumption units of capacity larger than or equal to 100 MW:

- a) bidding area;
- b) the available capacity for market time units during the event;

- c) unavailability reason;
- d) the start and the (estimated) end date (day, hour) of changing the availability;

3.7.3 The consumption units shall submit to the Transmission System Operator the information according to point 3.7.2 not later than 30 minutes after the change for the unavailability of the consumption units.

3.7.4 The information shall be published not later than one hour (H+1) following the change of the availability.

### **3.8 YEAR-AHEAD FORECAST MARGIN**

3.8.1 Transmission System Operator for his control area, calculates and send to ENTSO-E, for its respective bidding area, the year-ahead forecast margin, for the time unit of the market .

3.8.2 The year-ahead forecast margin is determined as a difference between the yearly net generation forecast and yearly total load forecast, taking into account the forecast of the total generation capacity, the availability of the generating units and the forecast of the reserve capacity contracted for the ancillary services.

3.8.3 The information shall be published not later than a week before the week in which yearly auction is held or 15 days before the beginning of the year to which the data relate.

3.8.4 The generating unit and the Distribution System Operator (DSO), set within the control area of the Transmission System Operator provide all the necessary information to calculate the data referring to point 3.8.1 until on November 1.

## **4. FUNDAMENTAL MARKET DATA ON TRANSMISSION**

### **4.1. TRANSMISSION INFRASTRUCTURE**

4.1.1 The Transmission System Operator shall draft and send at ENTSO-E the information regarding the possible changes of the grid elements and the interconnection projects that shall be developed in the future, including those elements that consist in the development of the transmission grid (the extension of the grid by the integration of new elements or the dismantling of the existing elements) within the next three years. This information shall be given only for those changes on the grid infrastructure expected to have an impact of at least 100 MW in the exchange capacity between the bidding zone or in the geographic border between these areas. This information shall include:

- (a) Identification of the assets;
- (b) Affected areas;
- (c) Type of the asset;
- (d) The impact in the interconnection capacity according to the direction between the bidding zones;
- (e) The time expected to be concluded.

4.1.2 The information shall be published a week before the annual allocation of the capacities but not later than 15th day of the last month of the year to which it is made the allocation. The information shall be updated with the respective changes before the end of March, June, and September of the year where it is made the allocation.

## **4.2. PLANNED UNAVAILABILITY OF THE INFRASTRUCTURES IN THE TRANSMISSION GRID**

4.2.1. The Transmission System Operator, for its control area, shall calculate and send to ENTSO-E the information regarding the planned unavailability, including the changes of the planned unavailability of the inter-connections and in the transmission grid to reduce the cross-zonal capacities between the bidding zones for 100 MW or more during at least a time frame, specifying:

- a) The identification of the mentioned assets;
- b) Location;
- c) Type of the assets;
- d) The impact accessed in the cross-zonal capacity for the direction between the bidding zones;
- e) Unavailability reasons,
- f) The expected date for the beginning and the end (day, hour) of the availability change;

4.2.2. The information shall be published as soon as possible, but not later than one hour after taking the decision regarding the planned unavailability.

4.2.3 For the information mentioned above the Transmission System Operator may choose not to identify the mentioned assets and not specify their location, in case it is classified as commercial and critical information regarding the protection of the infrastructure in Albania, as provided on point (d) of article 2 Council Directive 2008/114/EC. This shall not affect the obligations defined on point 4.2.1.

### **4.3. CHANGES IN THE ACTUAL AVAILABILITY OF THE INTERCONNECTIONS AND THE TRANSMISSION GRID**

4.3.1. The Transmission System Operator, for his control area, calculates and sends to ENTSO-E the information on the changes for the actual availability of the interconnections and the transmission grid that reduce the cross-zonal capacities between the bidding zones for 100 MW or more, during at least a timeframe of the market, specifying:

- a) The identification of the mentioned assets;
- b) Location;
- c) Type of the assets;
- d) The effect in the cross-zonal capacity for any direction between the bidding zones
- e) Reasons for the unavailability;
- f) The start, and the (estimated) end date (day, hour) for the unavailability change.

4.3.2. The information shall be published as soon as possible, but not later than one hour after the change in the actual unavailability.

4.3.2 For the information defined above the Transmission System Operator may choose not to identify the mentioned assets and not specify their location, in case it is classified as commercial and critical information regarding the protection of the infrastructure in Albania, as provided on point (d) of article 2 Council Directive 2008/114/EC. This shall not affect the obligations defined on point 4.3.1.

### **4.4. FORECASTED CROSS-ZONAL CAPACITY**

4.4.1. The Transmission System Operator of the Transmission Capacities Allocator (SEE CAO), for its control area, calculates and sends at ENTSO-E, before the allocation process the information for:

- a) the provided and offered capacity in (MW) for the direction between the bidding zones in case of capacities allocation based on the net coordinated capacity of the transmission; or
- b) the main parameters based on flow based, in case of capacities allocation based on flow based methodology.

4.4.2. The information shall be published according to the deadlines defined on Annex B.

### **4.5. OFFERED CROSS-BORDER TRANSMISSION CAPACITY**

4.5.1. The Transmission System Operator for its control area, calculates and sends to ENTSO-E, the explicit allocations if any, for each time frame of the market and for the direction between the bidding zones, the following data:

- a) the capacity (in MW) required from the market,
- b) capacity (in MW) allocated to the market,
- c) capacity price (monetary value /MW),
- d) incomes from the auctions (on the monetary value) for the border between the bidding zones.

4.5.2. The information shall be published not later than one hour after any capacity allocation.

#### **4.6. YEARLY REPORT ABOUT CRITICAL NETWORK ELEMENTS LIMITING OFFERED CAPACITIES**

4.6.1 Transmission System Operator for its control area, shall send to ENTSO-E an annual report where are evidenced:

- a) main critical elements of the grid that limit the provided capacity;
- b) the control area where the critical elements belong;
- c) the level where the facilitation of the critical elements of the grid shall increase the offered capacity;
- d) all the possible measures for the implementation to increase the offered capacity, together with the forecast of their costs.

4.6.2 During the preparation of the report, the Transmission System Operator may choose not to identify the mentioned assets and not specify their location, if it is classified as sensitive and critical information regarding the protection of the infrastructure in Albania, as provided on point (d) article 2 of the Council Directive 2008/114/EC.

#### **4.7. TOTAL CAPACITY NOMINATED**

4.7.1. The Transmission System Operator for its control area sends to ENTSO-E the total nominated capacity for any time frame and for every direction between the bidding zones.

4.7.2. The information shall be published not later than one hour after each nomination.

#### **4.8. TOTAL ALLOCATED CAPACITY**

4.8.1. The Transmission System Operator for the control area, send at ENTSO-E before any capacity allocation the total of the allocated capacities by the previous allocation procedures for any time frame of the market and for each direction.

4.8.2. The information shall be published immediately by the termination of sending the data according to Annex B.

#### **4.9. DAY-AHEAD PRICES**

4.9.1. The Transmission System Operator for its control area, calculates and send to ENTSO-E for any time frame of the market, the day-ahead prices for its respective bidding zone (EUR/MWh);

4.9.2. The information shall be published not later than one hour after the gate closure

#### **4.10. PROVIDED CROSS-BORDER TRANSMISSION CAPACITIES IN CASE OF IMPLICIT ALLOCATION**

4.10.1 The Transmission System Operator for its control area, calcutes and sends at ENTSO-E, in case of implicit allocation, for each time frame of the market, the net positions for each bidding zone (MW) and the congestion incomes (in the monetary value ) in the border between the bidding zones.

4.10.2. The information shall be published for each day and not later than one hour after the cut off and if applicable shall be updated not later than two hours after each nomination (intra day).

#### **4.11. TOTAL SCHEDULED COMMERCIAL EXCHANGES FOR THE DAY IN ADVANCE**

4.11.1. Transmission System Operator for its control area, shall calculate and send at ENTSO-E the total scheduled commercial exchanges as an aggregate capacity between the bidding zones for the direction and the time frame of the market .

4.11.2. The information shall be published every day not later than one hour after the last time of the cut off and if applicable shall be updated not later than two hours after each intraday nomination process.

#### **4.12. PHYSICAL FLOWS IN THE INTERCONNECTION LINES**

4.12.1. The Transmission System Operator for its control area, calculates and sends at ENTSO-E the physical flows of the power between the bidding zones for each accounting interval in a day

4.12.2. The information shall be published not later than one hour (H + 1) for each accounting interval and time frame of the market, closer to the real time, but not later than one hour after the operation period.

#### **4.13. CONGESTION MANAGEMENT – REDISPATCHING**

4.13.1. Transmission System Operator, for its control area, sends to ENTSO-E the information regarding the redispatching for the time frame of the market, specifying:

- a) the undertaken action (i.e the increase or decrease of production and load),
- b) identification, location and the type of grid elements that have to do with the action,
- c) the reason for undertaking the action,
- d) the affected capacity from the undertaken action (MW);

4.13.2. The information shall be published as soon as possible, but not later than one hour after the operation period except the reason that shall be published not later than one day after the operation period.

#### **4.14. COUNTERTRADING**

4.14.1. The Transmission System Operator, for its control area, sends to n ENTSO-E the information regarding the countertrading for the time frame of the market specifying;

- a. the undertaken action (i.e the increase or decrease of the cross-zonal exchange),
- b. the bidding area
- c. the reason for undertaking the action,
- d. changes in the cross-yonal exchange

4.14.2. The information shall be published as soon as possible, but not later than one hour after the operation period except for the reason that shall be published not later than one day after the operation period.

#### **4.17. CONGESTION MANAGEMENT REPORT**

4.15.1. Transmission System Operator for its control area sends to ENTSO-E the information regarding the month costs of cross-zonal trading and the redispatch as well as other correcting actions.

4.15.2. The information shall be published not later than the last business day of the month (M+1) after the month (M) in which the congestion management actions were taken.

## **5. FUNDAMENTAL MARKET DATA ON GENERATION**

### **5.1. INSTALLED GENERATION CAPACITY AGGREGATED**

5.1.1. Transmission System Operator, for its control area, calculates and sends to ENTSO-E the information for the quantities of the generation capacities (in MW) installed for all actual units of production that have an installed generation capacity equal or greater than 1 MW by type of generation.

5.1.2. The generation and production units shall submit to the transmission system operator data on the installed generation capacity of the production units in the transmission system, aggregated by type of generation, not later than two weeks before the beginning of the year to which the data relate.

5.1.3. Distribution System Operator or closed Distribution System Operator shall submit to the Transmission System Operator data on the installed generation capacity from the production units distribution grid, aggregated by type of generation, not later than two weeks before the beginning of the year to which the data relate.

5.1.4. The data aggregated by type of production shall be published each year not later than one week before the end of the year.

### **5.2. INSTALLED CAPACITY BY PRODUCTION UNIT**

5.2.1. Transmission System Operator, for its control area shall calculate and send to ENTSO-E the information regarding the production units (existing and planned, in MW) of the installed generating capacity greater than or equal to 100 MW.

5.2.2. The data from section 5.2.1 shall be published for the period covering the next three years.

5.2.3. Production units shall submit to the Transmission System Operator:

- a) The name of the production unit;
- b) The installed generation capacity (MW)
- c) Location

- d) Voltage level in the connection point
- e) Type of generation
- f) Bidding zone

5.2.4. The production units shall submit data from section 5.2.3 to the transmission system operator not later than two weeks before the beginning of the year to which the data relate.

5.2.5. The data from section 5.2.1 shall be published each year for the next three years not later than one week before the beginning of the first year to which the data relate.

### **5.3. DAY AHEAD AGGREGATEED GENERATION**

5.3.1. Transmission System Operator, shall for its control area, calculate and sends to ENTSO-E an estimation of the total planned generation (in MW) for each time frame of the day ahead market .

5.3.2. The Production Units shall submit to the Transmission System Operator of the aggregated generation in the transmission system for each accounting interval, not later than the day preceding the day to which the data relate (D-1), by 14.00 h.

5.3.4. On the basis of the submitted data from sections 5.3.2, Transmission System Operator shall send the data not later than 18.00 Brussels time, one day before the delivery.

### **5.4. DAY AHEAD GENERATION FORECAST FOR WIND AND SOLAR**

5.4.1. The Transmission System Operator, for its control area, calculates and sends to ENTSO-E a forecast for the electricity generation from the wind and solar (in MW) of the bidding zone, for each time frame of the next day.

5.4.2. The Production Units from solar and wind shall submit the following data:

- a) average forecast value of generated electricity from solar for each time frame of the market, for every day;
- b) average forecast value of generated electricity from wind for each time frame of the market, for every day;

5.4.3. The production units shall submit the generation data to the Transmission System Operator aggregated in the transmission system of each type of electricity from section 5.4.2 not later than the day preceding the day to which the data relate (D-1) by 14.00 h.

5.4.4. Distribution System Operator or closed Distribution System Operator shall submit the aggregated data to the Transmission System Operator for each type of electricity from section 5.4.2 in the distribution system or closed distribution system, not later than the day preceding the day to which the data relate (D-1) by 14.00.

5.4.5. On the basis of the submitted data from section 5.4.2, the aggregated data from section 5.4.1 shall be delivered not later than 18.00 h (according to Brussels time), one day before the delivery. The information is regularly updated and published during the commercial day at least an update published on 8.00 h (according to Brussels time), on the day of the delivery. The information is ensured for the bidding area, in case there is more than 5 % of electricity supply generation from wind and solar in the year.

## **5.5 PLANNED UNAVAILABILITY OF THE GENERATION UNITS**

5.5.1 Transmission System Operator, for its control area, shall send ENTSO-E the data regarding the planned unavailability of 100 MW or more of a generation unit including the changes in 100 MW or more, expected to last at least a time frame of the market up to three years.

5.5.2 The generating units shall submit to the Transmission System Operator:

- a) name of production unit;
- b) name of generation unit;
- c) location;
- d) bidding area
- e) installed capacity (MW);
- f) type of generation;
- g) available capacity (net value) of a generation unit during the event;
- h) reason for the unavailability;
- i) the start and the (estimated) end date of change in availability (day, hour).

5.5.3 The generation units shall submit the data to the Transmission System Operator not later than 30 minutes after the approval of the outage plan.

5.5.4. The information from section 5.5.2 shall be published as soon as possible, but not later than one hour after taking the decision regarding the planned unavailability.

## **5.6 ACTUAL UNAVAILABILITY OF THE GENERATION UNIT**

5.6.1. Transmission System Operator, for its control area, sends to ENTSO-E the data regarding the changes of 100 MW or more in the actual availability of the production unit, that is expected to last at least one time frame of the market.

5.6.2 The Generation units shall submit the data to the Transmission System Operator:

- a) name of production unit;
- b) name of generation unit;
- c) location;
- d) bidding zone
- e) installed generation capacity (MW);
- f) type of generation;
- g) available capacity (net value) of a generation unit;
- h) reason for the unavailability;
- i) the start and the (estimated) end date of change in availability (day, hour).

5.6.3. The generation units shall submit the data of point 5.6.2 to the Transmission System Operator not later than 30 minutes from the change of the availability.

5.6.1. The data from section 5.6.2 shall be published as soon as possible, but not later than one hour after the change of the actual availability.

## **5.7. PLANNED UNAVAILABILITY OF THE PRODUCTION UNITS**

5.7.1 Transmission System Operator, for its control area, sends to ENTSO-E the data regarding the planned unavailability of the production unit of about 200 MW or more, including the changes from 100 MW or more of the planned unavailability of that production unit, but not published in conformity with point 5.5 that is expected to last at least one time frame of the market up to three years.

In case the data have already been published together with the data from section 5.5 hereof, the Transmission System Operator shall not publish this data separately.

5.7.2 The production unit shall submit data on the unavailability of the production for a period of three years, as follows:

- a) name of production unit;
- b) location;
- c) bidding zone,
- d) installed generating capacity (MW),
- e) type of the generator;
- f) the available capacity (net value) of the production unit during the event;

- g) the unavailability reason;
- h) the start and the estimated date for the end (day, hour) of changing the availability;

5.5.3 The production units shall submit the data to the Transmission System Operator not later than 30 minutes after the approval of the outage plan.

5.7.4. The information from section 5.7.2 shall be published as soon as possible, but not later than one hour after the approval for the planned unavailability .

## **5.8 ACTUAL UNAVAILABILITY OF THE PRODUCTION UNITS**

5.8.1. The Transmission System Operator, for its control zone, sends to ENTSO-E the data regarding the changes of about 100 MW or more of the actual availability of the production unit with installed generating capacity of about 200 MW or more, but not published in conformity with section 5.6 expected to last at least one time frame of the market.

5.8.2. In case the data have already been published together with the data from section 5.6 hereof, the Transmission System Operator shall not publish this data separately.

5.8.3 The production unit shall also submit to the Transmission System Operator the following information:

- a) name of production unit;
- b) location;
- c) installed capacity (MW);
- d) type of generation;
- e) bidding area
- f) available capacity (net value) of the production unit during the event;
- g) reason for the unavailability;
- h) the start and the (estimated) end date of change in availability (day, hour).

5.8.4. The production unit shall submit to the transmission system operator all data not later than 30 minutes after the change of availability.

5.8.5. The data from section 5.8.3 shall be published as soon as possible but not later than one hour after the change of the actual availability.

## **5.9. ACTUAL GENERATION PER UNIT**

5.9.1. Transmission System Operator for its control area, calculates and sends to ENTSO\_E the data regarding the actual production (MW) for the time frame of the market, for generation unit with installed generation capacity of about 100 MW or more

5.9.2. The production units shall submit to the Transmission System Operator the data according to section 5.9.1 not later than 4 days (D+4) after the day (D) to which the data relate.

5.9.3. Data shall be published five days (D+5) after the day (D) to which the data relate.

## **5.10. AGGREGATED GENERATION PER TYPE**

5.10.1. Transmission System Operator for its control zone, calculates and provides to ENTSO-E the data regarding the aggregated actual generation (net value) for generating units (the average aggregated value) for every calculated interval on the day (D), the aggregated production of generation for time frame of every type.

5.10.2. The production unit shall submit to the transmission system operator data for the generation units connected to the transmission system not later than 30 minutes after each accounting interval.

5.10.3. Distribution system operator or closed Distribution System Operator shall submit to the transmission system operator aggregated data by type of generation in the distribution system or in the closed distribution system, maximum 30 minutes after each accounting interval.

5.10.5 The data from section 5.10.1 aggregated by type of generation shall be published not later than one hour after each accounting interval.

## **5.11 ACTUAL WIND AND SOLAR POWER GENERATION**

5.11.1. Transmission System Operator, for its control zone, calculates and sends to ENTSO-E the data regarding actual generation or forecasted from solar and wind (MW) in the bidding area for the time frame of the market

5.11.2. The production units y producer shall submit to the transmission system operator data for the production units connected to the transmission system not later than 30 minutes after each accounting interval.

5.11.3. Distribution system operator or closed distribution system operator shall submit to the transmission system operator aggregated data in the distribution system or in the closed distribution system maximum 30 minutes after each accounting interval.

5.11.5. The information shall be published not later than one hour after the operation period and is updated based on the measured values as soon as possible and the values to be available. The information is ensured for the bidding area if there is more than 5% of the electricity generation supply from wind and solar in the year.

## **5.12 ENERGY RESERVES**

5.12.1 The Transmission System Operator, for its control zone, sends to ENTSO-E the data regarding the aggregated value of the weekly average level aggregated of filling all the hydropower plants reservoirs (MWh) for its respective bidding area including the number for the same week of the last year .

5.12.4 The information shall be published the third day of the working day after the week that the information relates. The information is ensured for the bidding area, if more than 30 % of this type of supply per year.

## **6. FUNDAMENTAL MARKET DATA ON BALANCING**

### **6.1. RULES ON BALANCING**

6.1.1. Transmission System Operator, for its control zone, sends to ENTSO-E the information regarding the balancing rules which include:

- (a) processes for the procurement of different types of balancing reserves and balancing electricity,
- (b) payment methodology for ensuring the reserves and activated energy for balancing,
- (c) methodology for calculating the unbalancing tariffs,
- (d) if applicable, a description how the cross-border balancing is performed between two or more control zones and the conditions for the participation of the generators and the loads.

### **6.2. AMOUNT OF BALANCING RESERVES UNDER CONTRACT**

6.2.1. Transmission System Operator, for its control zone, sends to ENTSO-E the information regarding the quantity of the balancing reserves (MW) according to the TSO contract (in MW).

6.2.2. Data to be published:

- (a) source of the reserve (generation or load);
- (b) type of the reserves (e.x. reserves for controlling the frequency, reserve for resetting the frequency, reserves for substitution ),
- (c) time period for which are contracted the reserves (e.x hour, day, week, month, year etc.),

6.2.3. The information shall be published as soon as possible but not later than two hours before the next procurement process takes place;

### **6.3. PRICES OF THE RESERVED CAPACITY OF BALANCING RESERVES**

6.3.1. Transmission System Operator, for its control zone, sends to ENTSO-E the prices paid by TSO for the type of the procured balancing reserves even for the procurement process (ALL/MW/period);

6.3.3. The data shall be published as soon as possible but not later than one hour after the termination of the operation period.

### **6.4. ACCEPTED AGGREGATED OFFERS**

6.4.1. The Transmission System Operator for its control zone, sends to ENTSO-E the accepted offers accumulated for the balancing time frame, separately for each type of the balancing reserves.

6.4.4 The data shall be published as soon as possible but not later than one hour after the operation period.

### **6.5 VOLUMES OF ACTIVATED BALANCING RESERVES**

6.5.1 Transmission System Operator for its control zone, sends to ENTSO-E the quantity of the activated balancing energy (in MW) for the balancing time frame and for the type of the reserves.

6.5.2 The following information shall be published:

- (a) activated balancing energy (MWh) in the accounting interval;
- (b) type of the activated balancing energy (, secondary and tertiary );

- (c) source of the activated balancing energy reserve (generation or load);
- (d) direction of regulation (up-regulation or down-regulation);

6.5.3 The data shall be published as soon as possible but not later than 30 minutes after the operation period. If the data are preliminary the figures shall be updated when the data shall be available;

## **6.6 PRICES OF ACTIVATED BALANCING RESERVES**

6.6.1. Transmission System Operator for its control zone, sends to ENTSO-E the prices paid by TSO company for the activated balancing energy per balancing time-frame and for the type of the reserve. The information shall be separated for the up and down regulation.

6.6.2. In the event that the transmission system operator sells/buys balancing energy for the purpose of system balancing according to the method of the marginal price, the marginal price of all activated offers in the respective accounting period shall be published.

6.6.3 The data shall be published as soon as possible but not later than one hour after the operation period.

## **6.7 IMBALANCE PRICES**

6.7.1 Transmission System Operator for its control zone, sends to ENTSO-E the data regarding the imbalances price (EUR/MWh) for the time frame of the balancing.

6.7.2 The data shall be published the as soon as possible.

## **6.8 TOTAL IMBALANCE VOLUME**

6.8.1. Transmission System Operator, for its control area, sends to ENTSO-E the data regarding the total volume of the imbalances in the control zone for each time frame of the balancing.

6.8.2. The data shall be published as soon as possible but not later than 30 minutes after the operation period. If the data are preliminary the figures shall be updated when the data shall be at the disposal.

## **6.9 . MONTHLY FINANCIAL BALANCE**

6.9.1. Transmission System Operator for its control zone, sends to ENTSO-E the data on the monthly financial balance for its respective control zone, specifying:

- (a) expenses caused to TSO for the procurement of the reserves and the activation of the balancing energy,
- (b) net incomes of TSO company after the liquidation of the imbalanced accounts with the balancing responsible parties;

6.9.2. The data shall be published as soon as possible but not later than 3 months after the operation period. If the solutions are preliminary, the figures shall be updated after the final solution.

6.9.3. In case of correction of financial balance the transmission system operator shall publish the corrected data from section 6.9.1.

## **6.10 CROSS-ZONAL BALANCING**

6.10.1 When it is possible, Transmission System Operator sends to ENTSO-E the information regarding the Cross-Zonal Control Zone for each time frame of the balancing which includes:

- a) the volume of the requirements and bids exchanged for the procured time frame,
- b) maximum and minimum prices of the requirements and bids exchanged for the procured time frame,
- c) volume of the balancing energy activated in the mentioned control zone.

6.10.2. The data shall be published as soon as possible but not later than one hour after the operation period.

## **7. GENERAL PROVISIONS**

7.1.1. The Transmission System Operator shall publish the data defined on points 3.6, 3.7, 4.4, 4.5, 4.7, 4.8, 4.10, 4.14, 4.17 4.11, 5.2, 5.5, 5.6, 5.7, 5.8 immediately after the entry into force of these Rules.

7.1.2. The Transmission System Operator shall publish the data defined on articles 4.1 and 6 of these Rules, beginning from 1 September 2017.

7.1.3. The Transmission System Operator shall publish the data defined on articles 3.1, 3.2, 3.3, 3.4, 3.5, 3.8, 4.2, 4.3, 4.6, 4.12, 4.13, 5.1, 5.3, 5.9, 5.10, 5.12 of these Rules, beginning from 1 January 2018.

7.1.4. Distribution System Operator shall submit data defined on this Rules to the Transmission System Operator beginning from January 1<sup>st</sup>, 2018.

7.1.5. The producer shall submit data defined on this Rules to the Transmission System Operator beginning from January 1<sup>st</sup>, 2018.

7.1.6. The data related to the forecast and the actual production from solar and wind energy from articles 5.4. and 5.11 of these Rules, shall be published once the share of electricity generated from these renewable sources exceeds 5% of the total annual electricity production. The Transmission System Operator shall timely inform the producers, Distribution System Operator and the closed Distribution System Operators, about the fulfillment of the above condition.

7.1.8. This Regulation enters into force immediately after ERE Board approval.

**ANNEX A**

**Publication of the information referring to point 4.4**

<b>Capacities allocation period</b>	<b>Forecasted cross-zonal capacity that shall be published</b>	<b>The provided capacity that shall be published</b>
Annual	One week before the annual allocation process, but not later than December 15, for all the next months of the year	One week before the annual allocation process, but not later than December 15
Monthly	Two days before the monthly allocation process, for all days after the next month	Two working days before the monthly allocation process
Weekly	Each Friday, for all days of the next week	One day before the weekly allocation process
For the next day		One hour before closing the market gate of the country, for each time frame of the market
Intraday		One day before the first intraday allocation and then on real time, for each time frame of the market