

# COMMISSION REGULATION (EU) 2017/1485

## establishing a guideline on electricity transmission system operation

*Adaptations for the Energy Community*

*5 May 2022*

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**GENERAL OVERVIEW**

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**ADAPTATIONS - General provisions**

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**ADAPTATIONS – Operational security**

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**ADAPTATIONS - Operational planning**

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**ADAPTATIONS – Load and frequency control and reserves**

## The underlying goal

clear legal framework with a consequent easier electricity trade and a high level of operational security

The System Operation Guideline specifies what transmission system operators should do in **managing** their **grid** and allows for a **gradual harmonization** of transmission system operation in the EU.

### General provisions

The framework of the SO GL, the cooperation of the TSOs, NRAs and ENTSO-E, monitoring, reporting

### Operational security

Network states, remedial actions, operational security limits, voltage control, short-circuit, power flows management, network protection, data exchange, testing etc.

### Operational planning

Network models, planning scenarios, security analysis, outage coordination, adequacy assessment, ancillary services, scheduling

### Load and frequency control and reserves

Operational agreements, frequency quality, LFC structure, operation of the LFC, reserves

The SOGL legalises actions already conducted by the TSO within their SAFA agreements. Minimum adaptations for the CPs have been proposed after discussions with the EC, ENTSO-E and ACER.

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

General changes

**Union**

**Energy Community**

**Member States**

**Contracting Parties**

**EU Laws**

**MC and PHLD decisions**

**Agency**

**Energy Community Regulatory Board (and the Agency)**

**European Commission**

**Energy Community Secretariat**

**Regional Security Coordinators**

**Regional Coordination Centres**

Article 2: Scope

**This Regulation shall apply to all transmission systems, distribution systems and interconnections in the Union...**

**This Regulation shall apply to all transmission systems, distribution systems and interconnections in the **Contracting Parties and with the Member States...****


# ADAPTATIONS

## General provisions

### ORIGINAL COMMISSION REGULATION


### ADAPTED VERSION

Article 2: Scope

The TSOs of Lithuania, Latvia and Estonia are, as long as and to  the extent that they are operating in a synchronous mode in a synchronous area where not all countries are bound by Union legislation, exempted from the application of the provisions listed in Annex I to this Regulation...

The TSOs of **Ukraine, Moldova and Georgia** are, as long as and to the extent that they are operating in a synchronous mode in a synchronous area where not all countries are bound by Energy Community legislation, exempted from the application of the provisions listed in Annex I to this Regulation...

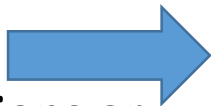
Article 5: Terms and conditions or methodologies of TSOs

TSOs shall develop the terms and conditions or methodologies required by this Regulation and submit them for approval to the competent regulatory authorities... 

**Where this Regulation requires TSOs to develop** the terms and conditions or methodologies they shall submit them for approval to **the Energy Community Board and, to the extent Member States are affected, the Agency...**

### ORIGINAL COMMISSION REGULATION

Where no consensus is reached among TSOs deciding on proposals for terms and conditions or methodologies in accordance with Article 6(2), they shall decide by qualified majority...



### ADAPTED VERSION

Where no consensus is reached among TSOs deciding on proposals for terms and conditions or methodologies in accordance with Article 6(3), they shall decide by **two third majority**.

TSOs deciding on proposals for terms and conditions or methodologies in accordance with Article 6(3) in relation to regions composed of five Member States or less shall decide on the basis of a consensus.



TSOs deciding on proposals for terms and conditions or methodologies in accordance with Article 6(3) in relation to regions composed of **three Member States and/or Contracting Parties** or less shall decide on the basis of a consensus.

Article 5: Terms and conditions or methodologies of TSOs

### ORIGINAL COMMISSION REGULATION

Each regulatory authority shall approve the terms and conditions or methodologies developed by TSOs under paragraphs 2 and 3. The entity designated by the Member State shall approve the terms and conditions or methodologies developed by TSOs under paragraph 4. The designated entity shall be the regulatory authority unless otherwise provided by the Member State.




### ADAPTED VERSION

Each regulatory authority shall approve the terms and conditions or methodologies developed by TSOs under paragraph 3. The entity designated by the **Contracting Party** shall approve the terms and conditions or methodologies developed by TSOs under paragraph 4. The designated entity shall be the regulatory authority unless otherwise provided by the **Contracting Party**. **Before approving the terms and conditions or methodologies, the regulatory authority, or the designated entity shall revise the proposals where necessary, after consulting the respective TSOs, in order to ensure that they are in line with the purpose of this Regulation and contribute to market integration, non-discrimination, effective competition and the proper functioning of the market.**

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

Article 6: Approval of terms and conditions or methodologies of TSOs

The proposals for the following terms and conditions or methodologies shall be subject to approval by  all regulatory authorities of the Union, on which a Member State may provide an opinion to the concerned regulatory authority:

- (a) key organizational requirements, roles and responsibilities in relation to data exchange related to operational security ...
- (b) methodology for building the common grid models...
- (c) methodology for coordinating operational security analysis...

TSOs shall **apply** the following terms and conditions or methodologies, **as adopted in accordance with Commission Regulation (EU) 2017/1485**:

- (a) key organizational requirements, roles and responsibilities in relation to data exchange related to operational security ...
- (b) methodology for building the common grid models...
- (c) methodology for coordinating operational security analysis...
- (d) methodology for the Continental Europe synchronous area for the definition of minimum inertia...**
- (e) methodology, at least per synchronous area, for assessing the relevance of assets for outage coordination...**
- (f) methodologies, conditions and values included in the synchronous area operational agreements in Article 118 concerning...**
- (g) methodologies and conditions included in the LFC block operational agreements in Article 119, concerning...**
- (h) mitigation measures per synchronous area...**



### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

The proposals for the following terms and conditions or methodologies shall be subject to approval by all regulatory authorities of the concerned region, on which a Member State may provide an opinion to the concerned regulatory authority:



The proposals for the following terms and conditions or methodologies shall be subject to approval by all regulatory authorities of the concerned region, on which **a Contracting Party or Member State** may provide an opinion to the concerned regulatory authority:

- (a) ...
- (b) ...
- (c) ...
- (d) ...
- (e) ...
- (f) ...
- (g) ...

- (b) common provisions for each capacity calculation region for regional operational security coordination...
- (f) mitigation measures per LFC block...
- (g) common proposal for the determination of LFC blocks ...

Article 6: Approval of terms and conditions or methodologies of TSOs

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

Proposals on terms and conditions or methodologies subject to the approval by several or all regulatory authorities shall be submitted to the Agency at the same time that they are submitted to regulatory authorities. Upon request by the competent regulatory authorities, the Agency shall issue an opinion within 3 months on the proposals for terms and conditions or methodologies.

Proposals on terms and conditions or methodologies subject to the approval by several or all regulatory authorities shall be submitted to **the Energy Community Regulatory Board and, to the extent Member States are affected, the Agency for the Cooperation of Energy Regulators**, at the same time that they are submitted to regulatory authorities. Upon request by the competent regulatory authorities, **the Energy Community Regulatory Board or, to the extent Member States are affected, the Agency for the Cooperation of Energy Regulators, acting in accordance with Article 2 of Procedural Act No 2022/02/MC-EnC**, shall issue an opinion within 3 months on the proposals for terms and conditions or methodologies.

*The same principle applied in the Articles 7 and 10*

# ADAPTATIONS

## General provisions

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

Monitoring  
Article 14:

ENTSO for Electricity shall monitor the implementation of this Regulation...



ENTSO for Electricity, **acting in accordance with Article 3 of Procedural Act No 2022/02/MC-EnC**, shall monitor the implementation of this Regulation...

operational security indicators  
Article 15: Annual report on

By 30 September, ENTSO for Electricity shall publish an annual report based on the incidents classification scale adopted in accordance with Article 8(3)(a) of Regulation (EC) No 714/2009. The Agency may provide its opinion on the format and contents...



ENTSO for Electricity, **acting in accordance with Article 3 of Procedural Act No 2022/02/MC-EnC**, shall **extend the annual report to include the Energy Community Contracting Parties**. **The Energy Community Regulatory Board** may provide its opinion on the format and contents...

*The same principle applied in the Articles 16 (Annual report on load-frequency control) and 17 (Annual report on regional coordination assessment)*

### ORIGINAL COMMISSION REGULATION

By 6 months after entry into force of this Regulation, all TSOs shall jointly agree on key organisational requirements, roles and responsibilities in relation to data exchange. Those organisational requirements, roles and responsibilities shall take into account and complement where necessary the operational conditions of the generation and load data methodology developed in accordance with Article 16 of Regulation (EU) 2015/1222. They shall apply to all data exchange provisions in this Title and shall include organisational requirements, roles and responsibilities for the following elements: (a) – (g)



### ADAPTED VERSION

By 6 months after entry into force of this Regulation, **the TSOs shall apply** the key organizational requirements, roles and responsibilities in relation to data exchange, **as adopted in accordance with Commission Regulation (EU) 2017/1485.**

# ADAPTATIONS

## Operational planning

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

ahead scenarios  
Article 65: Year-

ENTSO for Electricity shall publish every year, by 15 July, the common list of scenarios established for the following year, including the description of those scenarios and the period during which these scenarios are to be used.



**The TSOs of the Contracting Parties shall apply the common list of scenarios established for the following year and adopted in accordance with Commission Regulation (EU) 2017/1485.**

common grid models  
Article 67: Year-ahead

By 6 months after entry into force of this Regulation, all TSOs shall jointly develop a proposal for the methodology for building the year-ahead common grid models from the individual grid models ...



By 6 months after entry into force of this Regulation, TSOs shall **apply** the methodology for building the year-ahead common grid models from the individual grid models...

*The same principle applied in the Article 70 (Methodology for building day-ahead and intraday common grid models)*

# ADAPTATIONS

## Operational planning

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

operational security analysis  
for coordinating

Article 75: Methodology

By 12 months after entry into force of this Regulation, all TSOs shall jointly develop a proposal for a methodology for coordinating operational security analysis...



By 12 months after entry into force of this Regulation, TSOs shall **apply** the methodology for coordinating operational security analysis.

*Contents of the methodology deleted*

security coordination  
for regional operational

Article 77: Organisation

The proposal of all TSOs of a capacity calculation region for common provisions for regional operational security coordination ...



*The whole article deleted.  
(RSC replaced with RCC)*

# ADAPTATIONS

## Operational planning

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

Article 84: Methodology for assessing the relevance of assets for outage coordination

By 12 months after entry into force of this Regulation, all TSOs shall jointly develop a methodology at least per synchronous area, for assessing the relevance for the outage coordination of power generating modules, demand facilities, and grid elements ...



By 12 months after entry into force of this Regulation, TSOs shall **apply** methodology at least per synchronous area, for assessing the relevance for the outage coordination of power generating modules, demand facilities, and grid elements...

*Contents of the methodology deleted*

Article 114: General provisions for ENTSO for Electricity operational planning data environment

By 24 months after entry into force of this Regulation, ENTSO for Electricity shall...



**Article deleted except paragraph 3**



All TSOs and regional coordination centre shall have access to all information contained on the ENTSO for Electricity operational planning data environment.

# ADAPTATIONS

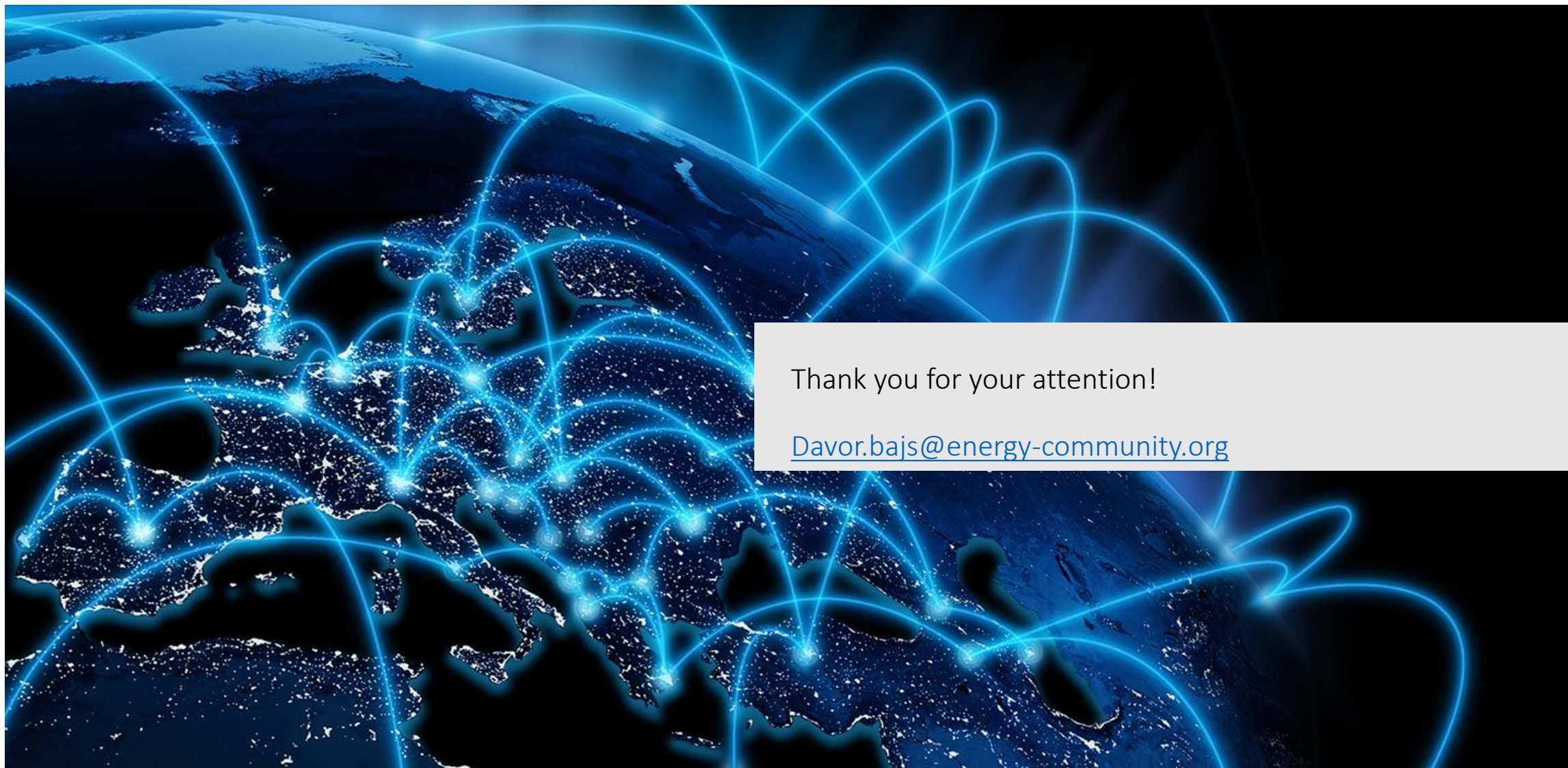
## Load and frequency control and reserves

### ORIGINAL COMMISSION REGULATION

### ADAPTED VERSION

<p>Article 139: Basic structure</p>	<p>⋮</p> 	<p><b>The provisions related to the load-frequency control structure apply only to the transmission system operators operating in the Continental Europe synchronous area. Contracting Parties' TSOs operating in other synchronous areas are excluded from the obligation to reach the objectives set out in these provisions within Title 3 and to operate according to the rules of these synchronous areas.</b></p> <p><i>Text added under paragraph 3</i></p>
<p>Other articles</p>	<p>⋮</p> 	<p><b>References to Nordic, GB and Ireland synchronous zones deleted</b></p>





Thank you for your attention!

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