



# Electricity transparency requirements

Nina Grall-Edler

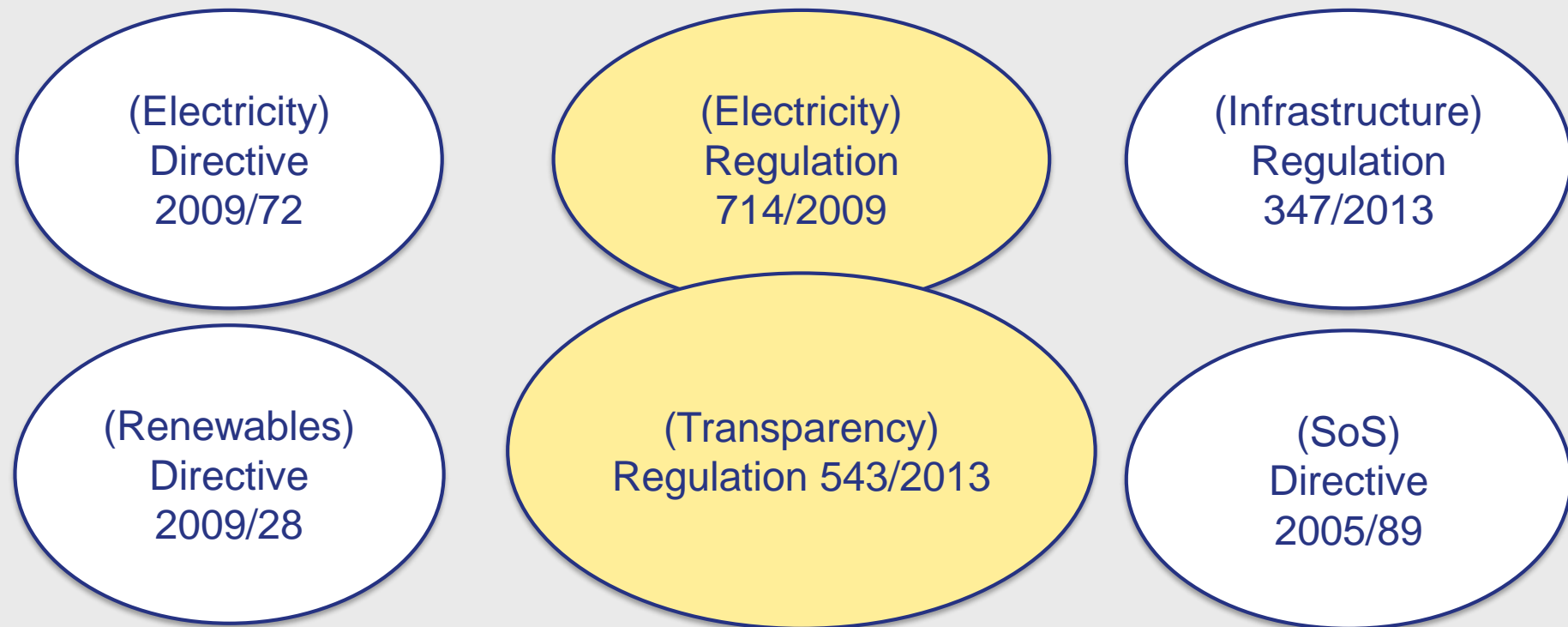
*Head of ECRB Section, Energy Community Secretariat*

1. Why transparency?
2. What is the framework governing transparency requirements?
3. What are general requirements for Ukraine?
4. What are the key detailed requirements (operational)?
5. What next?

# Why transparency is important?

- A quick win with significant effect on market opening
  - Data available
  - Allows market users to make use of their rights <sub>TPA</sub> and responsibilities <sub>BAL</sub>
- Price is right only if the information on fundamentals that point to such price are publically available
  - If not, the price can be as close as to being correct as the availability of information
  - or, even manipulated!

# Framework on electricity



 Important transparency requirements

 Operational transparency requirements

# ○ Electricity Directive<sub>1.1.2015</sub>

- PSO and universal service – clear, **transparent** and non-discriminatory obligation and prices
- Protection of consumers – **transparent** contractual terms, conditions, prices, dispute settlement mechanism, etc.
- Procurement of losses by grid operators – **transparent**, non-discriminatory and market-based procedures
- Balancing mechanism – clear and **transparent** rules, terms and conditions, prices
- Access to grid (use/connection) – efficient, **transparent** and non-discriminatory rules, conditions, procedures
- Independent and **transparent** NRA – **transparency** is required on all the duties performed by the NRAs

# ○ Infrastructure Regulation<sub>1.1.2017</sub>

- Projects of common interest – priority list defined in a **transparent** and objective manner
- Manual of procedures for the permit granting process applicable to projects of common interest and unit costs of comparable projects – should be **published**
- Use of transparency platform – **publication** of list of projects with common interest, including relevant information

- Target: well-functioning and **transparent** wholesale market
- Access to networks – **transparent** charges and conditions, allocation process (re-allocation)

## **Annex I –Transparency chapter** – further detailed in the Transparency Regulation

- TSO publication of info on network (un)availability
  - Report on congestion (where & why), methods applied to manage congestion
  - Publish capacity allocation rules and procedures, including all operational data on available cross-border capacity
  - Unavailability of generation/consumption units – threshold 100MW
  - Relevant info on demand and generation forecast
  - NRAs to be transparent on the congestion income and their use

# Transparency Regulation 1.1.2014

- Requirement to establish a central transparency platform

<https://transparency.entsoe.eu/>

- Requirements to TSOs to submit data to ENTSO-E
- Requirement to data owners (Gen, DSO, Cons. Units) to submit the data to TSO
- ENTSO-E develops Manual of Procedures detailing the:
  - Format
  - Standard
  - Technical and operational criteria
  - ... for communication of data by the TSOs to ENTSO-E transparency platform!



## Transparency Regulation – Load data

Actual load per bidding zone

D-1 load forecast per market unit (per hour)

W-1 load forecast (total load for every day with min/max per day)

M-1 load forecast (total load for every week with min/max per week)

Y-1 load forecast (total load for every week with min/max per week)

Y-1 forecast margin

Planned unavailability of consumption units (100 MW) per market unit

Actual unavailability of consumption units (100 MW) per market unit

## Transparency Regulation – Transmission data (1)

Report on developments  
(grid expansion)

Planned unavailability of  
transmission grid

Changes in actual  
unavailability of  
interconnections and  
transmission grid

Unavailability of offshore  
infrastructure

Yearly forecasted cross-  
zonal capacity

Monthly forecasted  
cross-zonal capacity

Weekly forecasted  
cross-zonal capacity

D-1 forecasted cross-  
zonal capacity (NTC)

D-1 offered cross-zonal  
capacity (NTC allocation  
method)

D-1 offered cross-zonal  
capacity (Flow-based  
allocation method)

## Transparency Regulation – Transmission data (2)

Other offered transfer capacity (Semester, quarter, weekend, etc.)

Intraday offered cross-zonal capacity (NTC allocation method)

Intraday offered cross-zonal capacity (Flow-based allocation method)

Restrictions on DC links – ramping restrictions

Restrictions on DC links – intraday transfer limits

Yearly report about critical network elements limiting offered capacity

Explicit allocation – capacity requested by the market

Explicit allocation – capacity allocated to the market

Explicit allocation – price of the capacity

Explicit allocation – auction revenue per border between bidding zones

## Transparency Regulation – Transmission data (3)

Total capacity  
nominated from explicit  
allocation

Total capacity allocated

Day-ahead prices

Implicit allocations – net  
positions

Implicit allocation –  
congestion income

Total scheduled  
commercial exchanges

Physical flows

Transfer capacity  
allocated with third  
countries

Congestion  
management –  
redispatching

Congestion  
management –  
countertrading

Congestion  
management report (on  
costs)

## Transparency Regulation – Generation data

Installed generation  
capacity - aggregated

Installed generation  
capacity – per  
production unit

D-1 aggregated  
generation

D-1 forecasts for wind  
and solar

Planned unavailability of  
generation unit

Actual unavailability of  
generation unit

Planned unavailability of  
production unit

Actual unavailability of  
production unit

Actual generation per  
unit

Aggregated generation  
per type

Actual wind and solar  
power generation

Pumped  
storage/reservoir stored  
energy

### Transparency Regulation – Balancing data

Rules on Balancing

Balancing reserves  
under contract

Prices of the procured  
balancing reserves

Accepted aggregated  
offers (volume)

Volume of activated  
balancing  
reserve/energy

Prices of activated  
balancing  
reserve/energy

Imbalance prices

Total imbalance volume  
per balancing time unit

Monthly financial  
balance

Aggregated volumes of  
offers for cross-border  
balancing activation

Prices for balancing bids  
and offers (for control  
area)

Volume for balancing  
energy activated (for  
control area)

## Conclusion – next step

- Ensuring that market reforms are implemented
  - Transparency makes the process more credible
- Ensuring that operational data are available to all market participants **at the same time**
  - For operational data **quality** matters
  - Format (user friendliness)
  - Timing of publication – each data set outlined previously has a clear deadline when it has to be published!  
... an information published later (outdated) = not published!
- Centralized platforms are important to ensure quality

The background is a satellite image of Europe at night, with city lights visible. Overlaid on this are numerous glowing blue lines that represent energy transmission. These lines are curved and interconnected, forming a dense network across the continent and extending into the surrounding oceans.

Thank you for your  
attention!

[www.energy-community.org](http://www.energy-community.org)

[Nina.Grall@energy-community.org](mailto:Nina.Grall@energy-community.org)



# ○ Renewables Directive

- **Transparent** administrative procedures (authorization, certification and licensing procedures), rules, charges related RES
- Guaranteeing origin (GoO) of electricity produced through objective, **transparent** and non-discriminatory criteria
- Access to the grid by RES, their dispatch – **transparent** and non-discriminatory criteria
- Use of **transparency** platform – CPs national RES plans and other info re RES

## ○ Security of Supply Directive

- Policies of CPs on security of supply – **transparency** and non-discriminatory policies
- Importance of a **transparent** and stable regulatory framework for SoS
- Quality of supply/ network security performance objective should be **transparent** and non-discriminatory
- **Transparent** tendering procedures