

# “RENEWABLES INTEGRATION IN THE EUROPEAN POLICY. SUCCESSFUL STEPS IN ROMANIA”



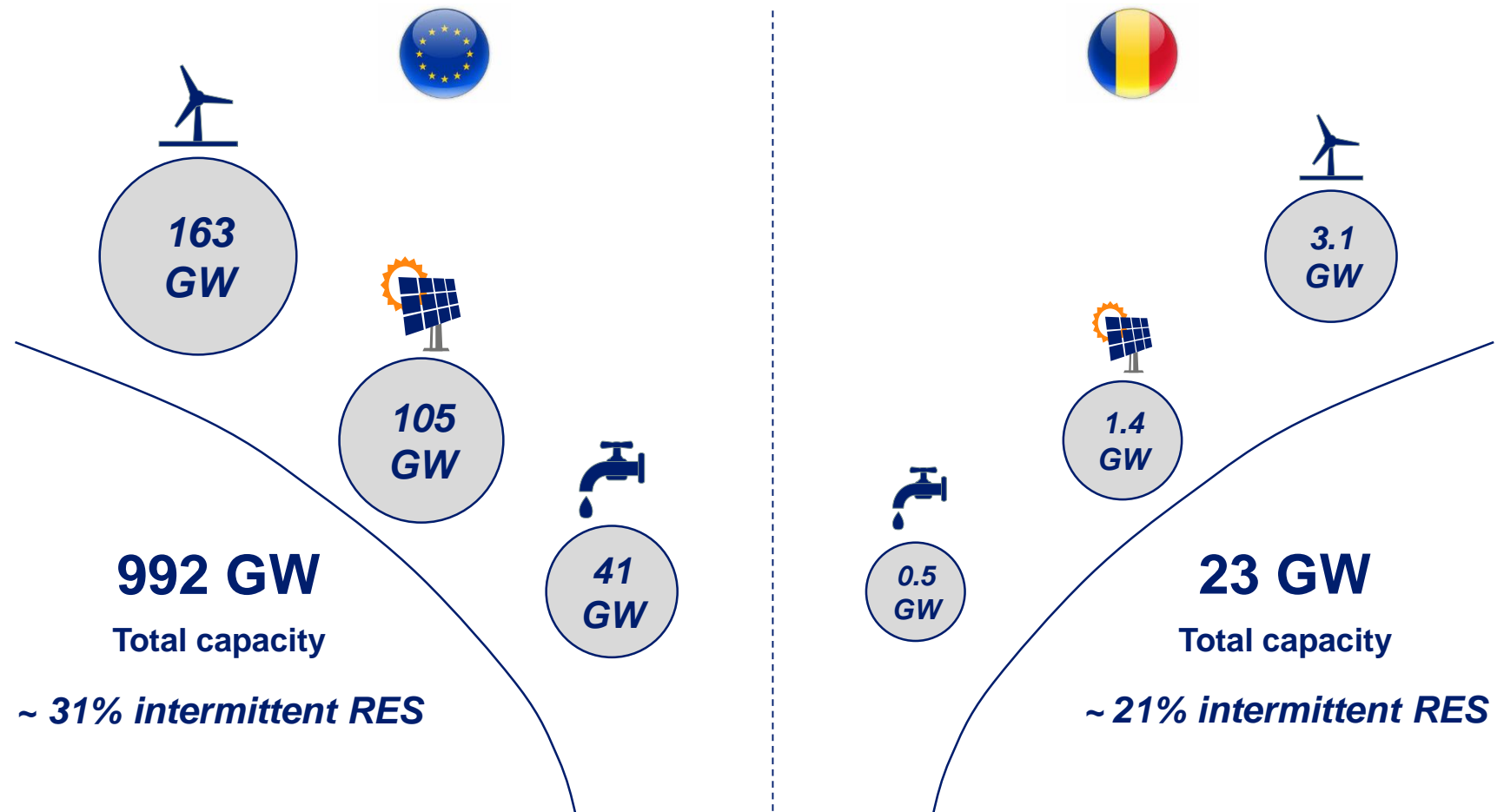
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# RES IN EU AND ROMANIA

An evolutionary path towards high shares of green energy



Source: Pöyry Management Consulting and Global Data, 2016

 Wind  Solar PV  Run-of-River

# WHERE DOES THIS COME FROM?

Both the EU as well as Romanian have promoted increasing RES investments

*Share of energy from RES in gross final energy consumption*



**2020 target**

**At least 20%**

**At least 24%**  
*(target already achieved, reaching 24.8% in 2014<sup>1)</sup>)*

**2030 target**

**At least 27%**

**No country specific targets**  
*(Romania is close to the 2030 EU target)*

*In 2030, half of the EU's electricity generation will come from renewables. By 2050 our electricity should be completely carbon-free.*

1) Eurostat data

# ELECTRICITY MARKETS

**Non-negligible changes to wholesale markets are required to accommodate high shares of renewables**

*It is important to prepare a proper route to market for renewable plants to manage price and volume risk, ensuring that the existence of incentives does not “distort” market functioning*

**Spot**

**Forward**

**Long term**

- **Timing**
- **Products**
- **Technical requirements**

- Increase the role of intra-day markets
- Clarify the role of renewables in short term balancing

- Strengthen forward trading and products that can be suitable to RES players
- Identify instruments to hedge increased volume and price risk

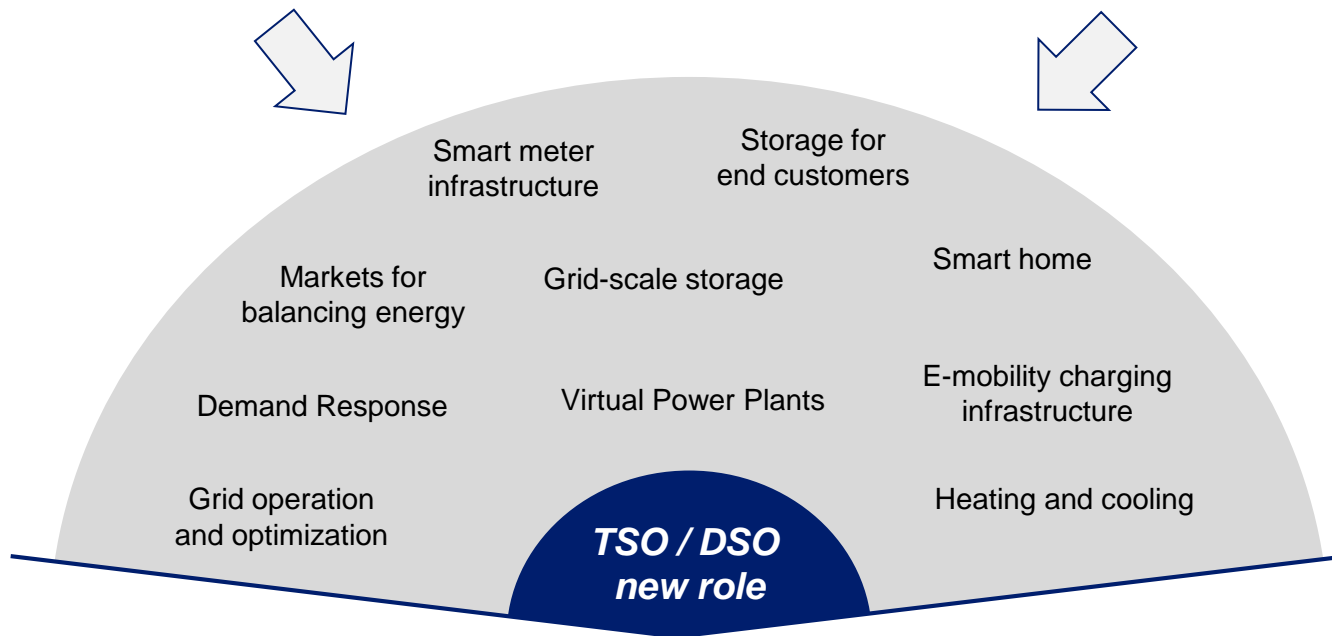
Establishing long term contractual arrangements that correctly fit with short term markets is key to financing plants under the new regimes

# PHYSICAL NETWORK REQUIREMENTS

Increasing RES penetration requires the development of a new role for the TSO and DSO

*Increasing presence of RES / DER*

*Expansion of smart grids*



*“Active” management of networks, also through smart grid solutions and innovative investments*

*Neutral market facilitators*

*Assurance that the market for new service providers is not foreclosed by incumbents*

*Improvement of coordination between TSOs and DSOs*

# THE FLOOR TO THE SPEAKERS



**Niculae Havrileț**



**Bogdan Chirițoiu**  
President

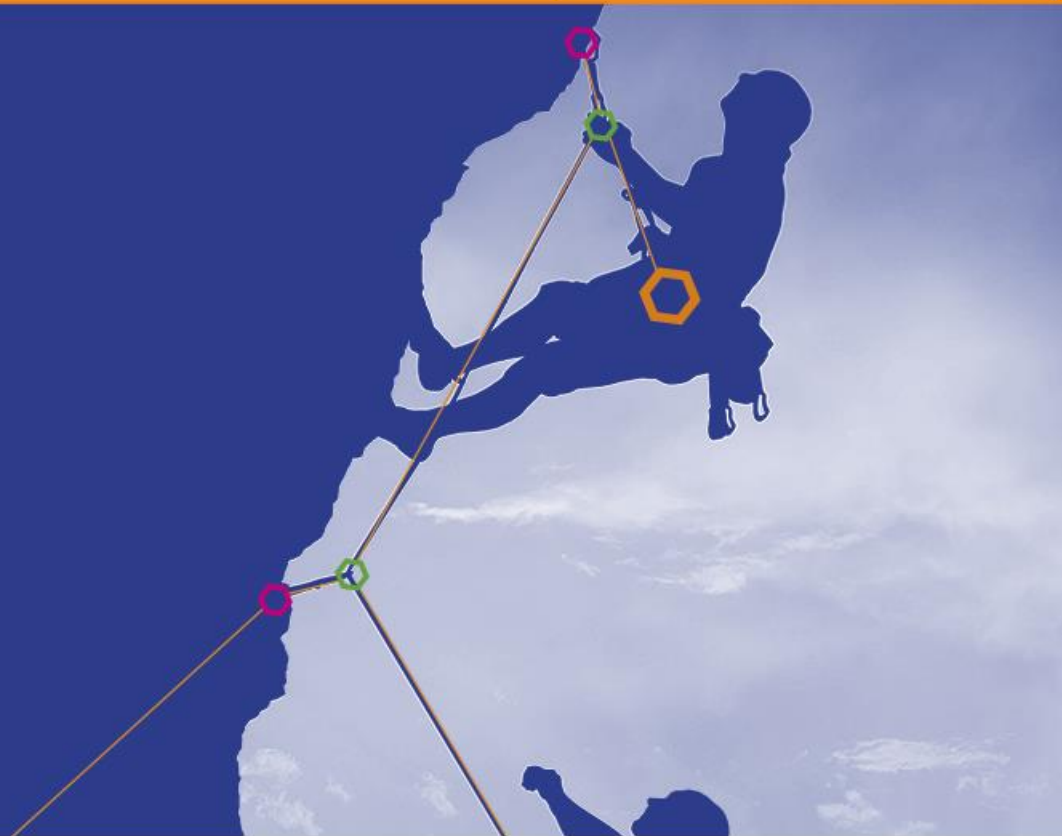


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