Wind Energy in Greece: Feed-in premium, auctions and PPAs

Panagiotis G. Papastamatiou
Hellenic Wind Energy Association ELETAEN, CEO
Main facts of the 14 Auctions conducted in the period 2018-2021

- More than 3.055 MW of PV and Wind projects were selected in 14 conducted auctions

**POWER SELECTED THROUGH AUCTION PROCEDURES IN THE PERIOD 2018-2021 (MW)**

- Selected Total Wind Power (MW): 1.630; 53%
- Selected Total PV power (MW): 1.426; 47%

**POWER SELECTED THROUGH AUCTION PROCEDURES PER YEAR (MW)**

- 2018: 498
- 2019: 1,090
- 2020: 1,117
- 2021: 350

**Average annual Reference Prices of competitive RES procedures (€/MWh)**

- **2018**
  - PV Auctions: 69.48
  - Wind Auctions: 61.58
- **2019**
  - PV Auctions: 49.80
  - Wind Auctions: 64.24
  - Common Auctions: 55.67
- **2020**
  - PV Auctions: 57.03
  - Wind Auctions: 51.59
- **2021**
  - PV Auctions: 37.60
RECENT DEVELOPMENTS

- **New target 2030**
  - The renewables target for 2030 will be increased

- **Auction's procedures**
  - Based on the Ministry’s announcements: Extension of the tender procedures for wind onshore and PV projects up to 2024 at the latest, for 2.1 GW in total (plus 1GW?)

- **New auction scheme**
  - Based on the Ministry’s announcements, the new scheme will incorporate improvements in its architecture compared to the existing one.
Wind onshore – A scenario for the expected evolution

**WIND ONSHORE**

- **In Operation:** 4.3 GW
- **From auctions:** 1.2 GW
- **Under construction:** 0.5 GW
- **Total expected:** 6.0 GW

Total difference up to 2030: 1 GW + Increase of target for 2030 + Capacities beyond the target
Wind onshore – A scenario for the expected evolution

QUESTIONS & CHALLENGES

- Structural
  - Counter party (Large consumers and/or suppliers)
  - Duration
  - Combination with balancing responsibilities
  - …………

- Market of PPAs
  - Demand
  - Liquidity
  - Competition
  - …………

- Institutional
  - Wholesale market design
  - Forward market
  - Auctions
  - …………

- Financing
  - Project finance – Sponsor’s support
  - Cost, term
  - …………
Thank you!

Panagiotis G. Papastamatiou
Hellenic Wind Energy Association, CEO