

Georgian National Energy and Water Supply Regulatory Commission



When Balance is Achieved

Integration of Renewables – Case of Georgia

ECRB-MEDREG Workshop

15 April 2021



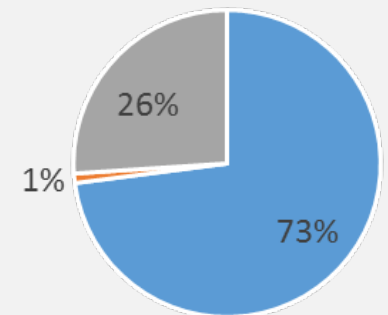
When Balance is Achieved

Generation Sector

- Existing generation capacity – 4336 MW
 - Hydro – 3160 MW (more than 100 HPPS)
 - Wind – 21 MW (1 wind power plant)
 - Solar – 5 MW (up to 300 micro generators)
 - Thermal – 1155 MW (6 TPPS)
- Ownership share: 55 % private, 45% public
- Ongoing RES projects – 1641 MW, 41 Projects
- Hydro potential – 15,000 MW with annual 50 TWh
- Wind potential – 1450 MW with 4,16 annual TWh
- Solar potential – 1500 MW



Existing Generation Mix



■ Hydro ■ Wind ■ Thermal



When Balance is Achieved

Support Mechanism for RES in Georgia

Support scheme

Feed in Premium

- Adopted by the Government in 2020
- Eligibility –power plants bigger than 5 MW
- Premium up to – 1.5 \$ cent/kwh
- Strike price - 5.5\$ cent/kwh

Schemes under PPP law

- Adopted in 2018
- Possibility for public-private partnership
- Streamlined procedures
- Must have positive social-economic CBA
- Direct negotiation possibility for energy projects

Power Purchasing Agreements

- Since –2008
- Suspended now due to the inconsistency with new market concept
- Under PPAs were constructed up to 500 MW capacity - 41 HPPs and 1 wind plant

Net-metering

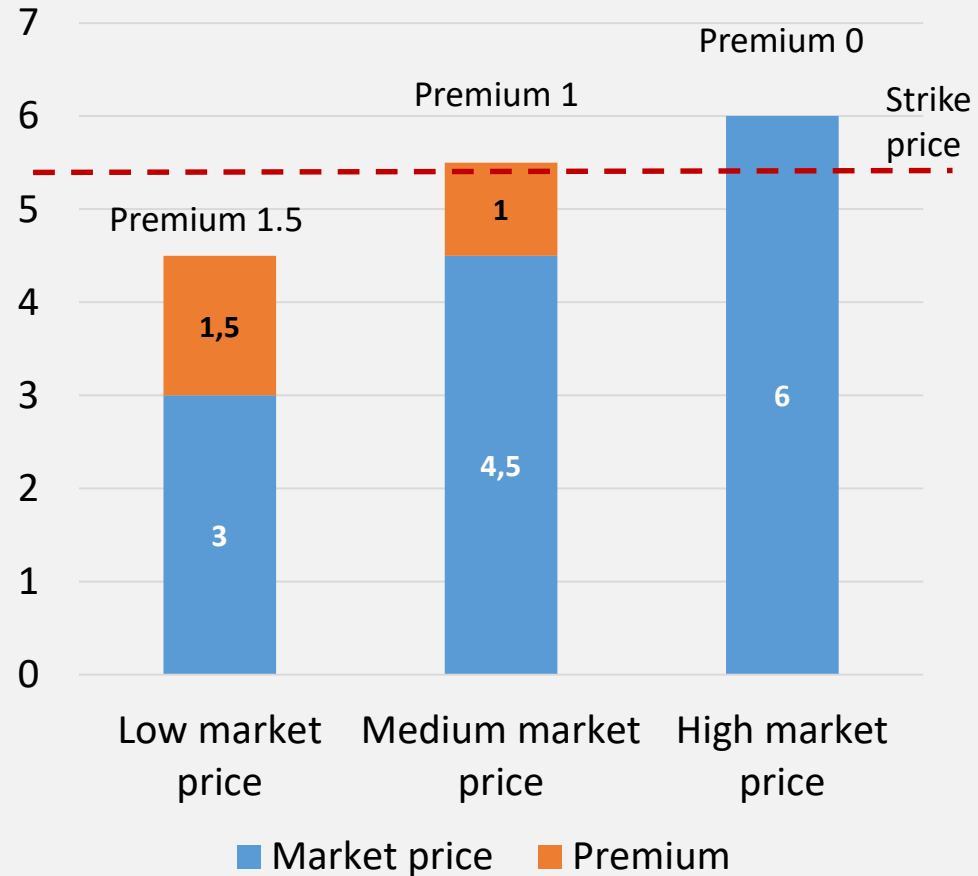
- Adopted by GNERC
- RES Generators up to 500 KW All retail
- All consumer eligible
- Group connection possibility and virtual net metering



New Support mechanism for RES

When Balance is Achieved

- Support components:
 - Support period
 - Premium tariff
- Support period -8 month in a year except May-August
- Premium tariff up to 1.5 Uscent/Kwh
- Strike (market) price – 5.5 Uscent/Kwh
- Monthly payments in GEL according th official exchange rate in a payment period





Electricity Market in Transition

When Balance is Achieved

Deregulated Market Segment



Deregulated Power Plants
(New RES)



Import



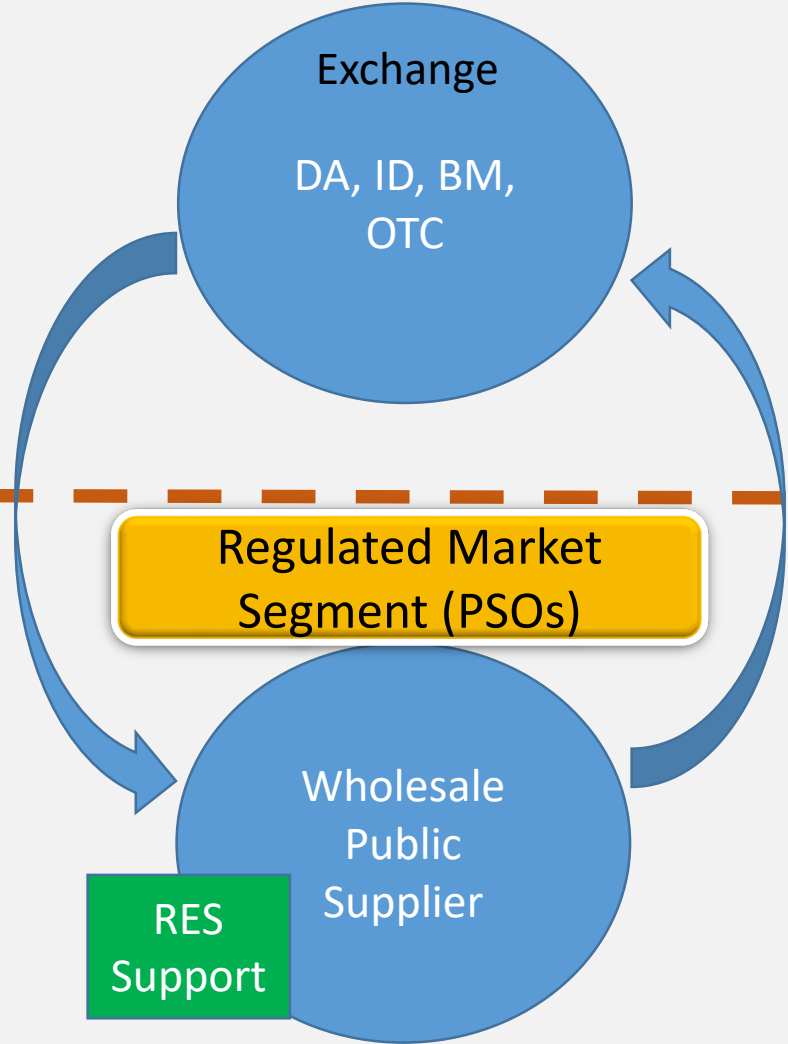
Regulated power plants



Renewables under Support



Thermal power plants



Export

Traders

Large Consumers

Free Suppliers

Up to 2026 year

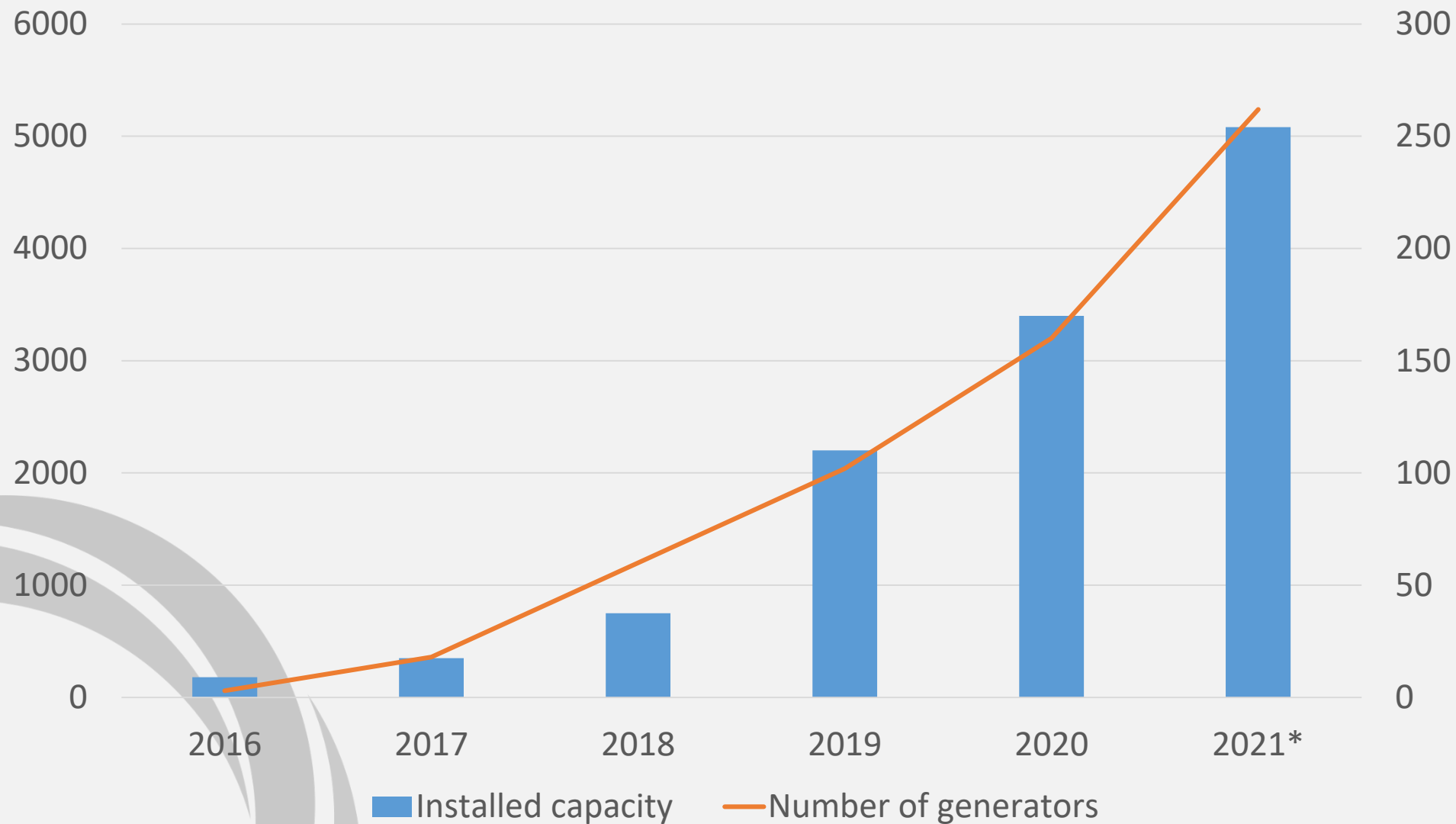
Universal Suppliers





Micro Generation Development in Numbers

When Balance is Achieved





When Balance is Achieved

#WhenBalanceisAchieved

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