

Integration of RES into the grid

Ismayil Guliyev

Lead specialist | Division of State Programs and Strategic Development

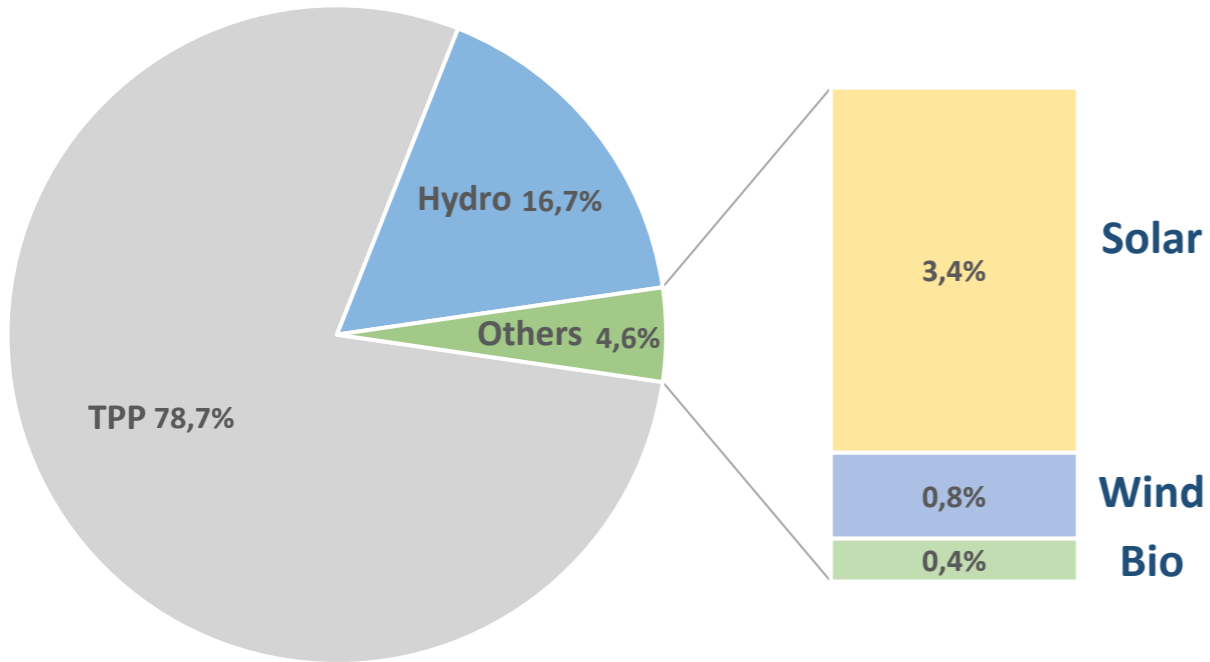
ismayil.guliyev@regulator.gov.az

06.11.2024



Installed capacity and technical potential

Total installed capacity ~ 8,4 GW

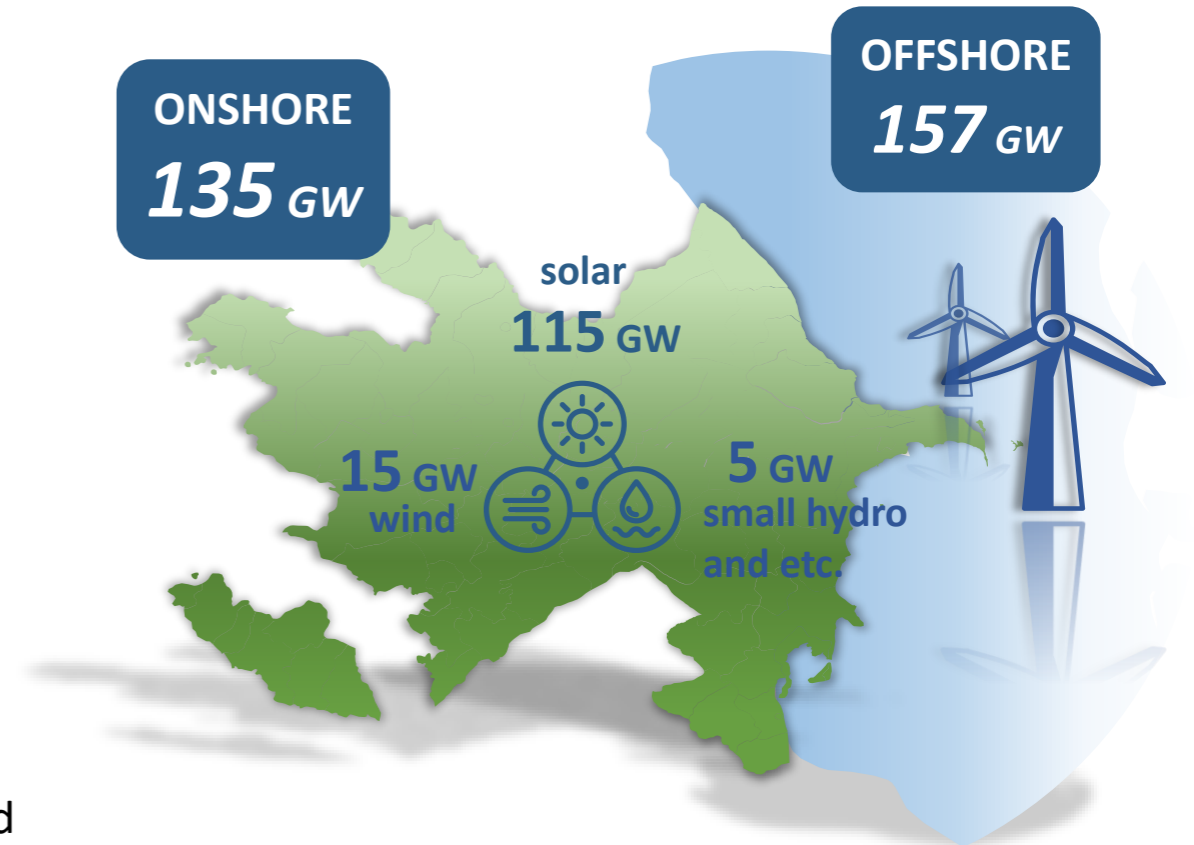


It is planned to integrate about 2 GW of renewables into the grid by 2027

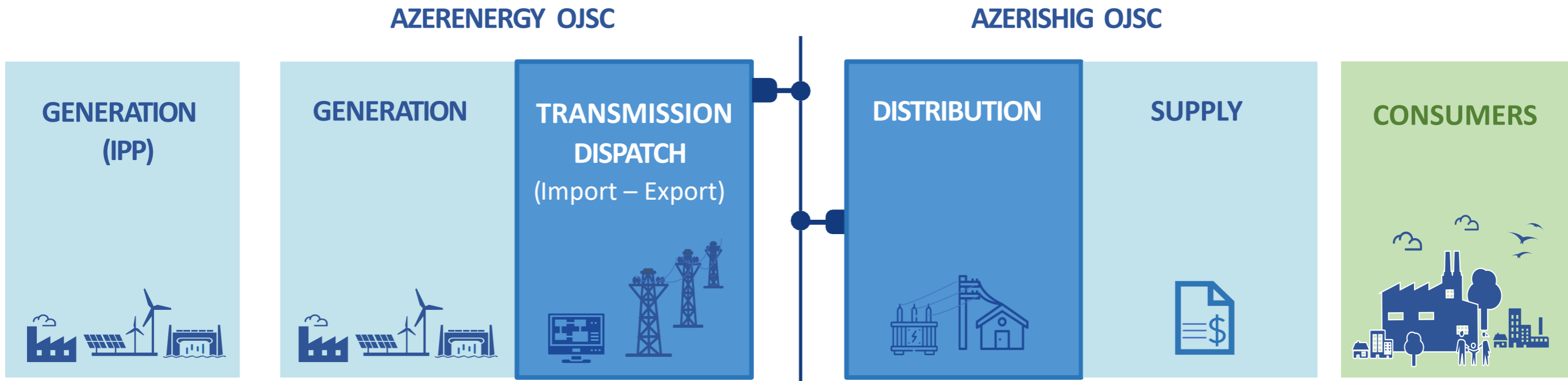
Targets

- to increase the share of renewable energy in the country's installed capacity to 30% by 2030
- to reduce greenhouse gas emissions by 40% until 2050

TECHNICAL POTENTIAL



Structure of the current electricity market in Azerbaijan



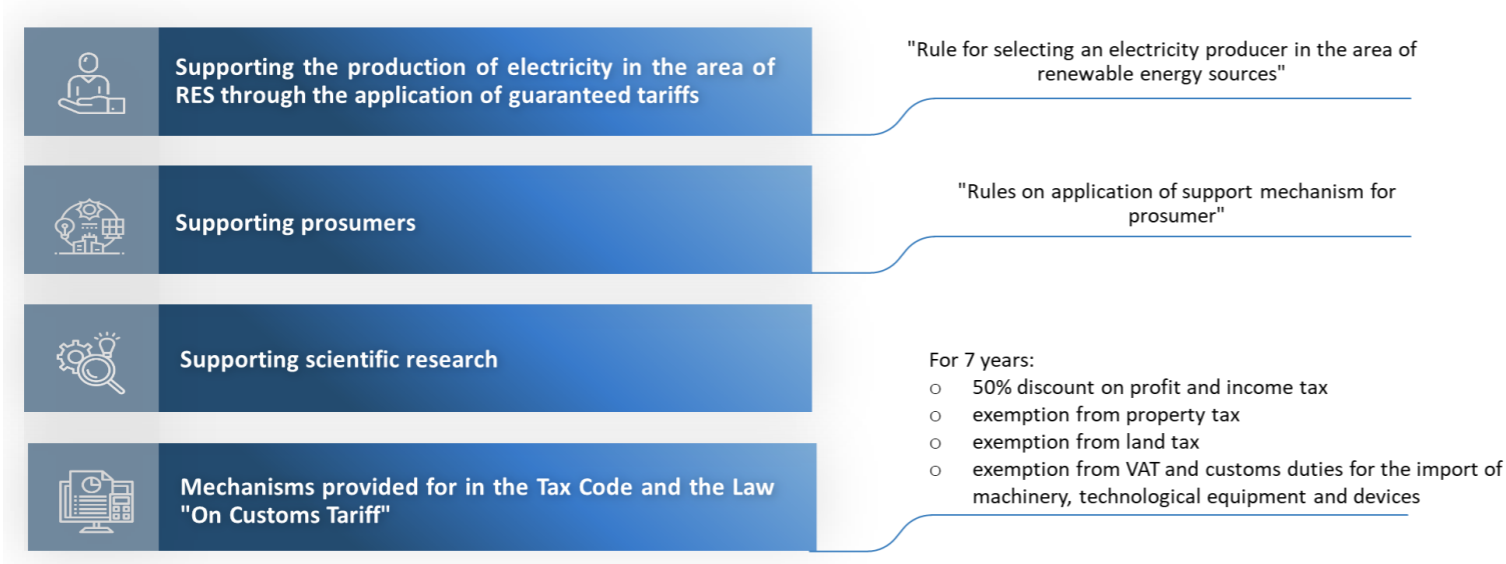
Strengthening of the network

- Electrification in Azerbaijan is close to 100%
- There is currently no congestion in the transmission and distribution networks
- According to the studies conducted with the involvement of international consulting companies on the integration of large amounts of renewable energy into the network, the necessity of conducting relevant works related to the strengthening of the network has been determined.

- construction of new substations and transmission lines
- the expansion of existing substations
- the enhancement of SCADA systems
- the implementation of energy storage systems



□ *Support mechanisms provided by the Law “On the use of renewable energy sources in electricity production”*



As a result

The installation of rooftop solar panels,, along with the anticipated widespread adoption of electric vehicles, will also necessitate taking measures on strengthening the distribution network

□ *Support mechanisms for electric vehicles and charging systems*

For

- *Electric vehicles*
- *Second and third level power chargers for EVs*



import duty is set at 0% (for EVs up to 3 years from the date of factory release)

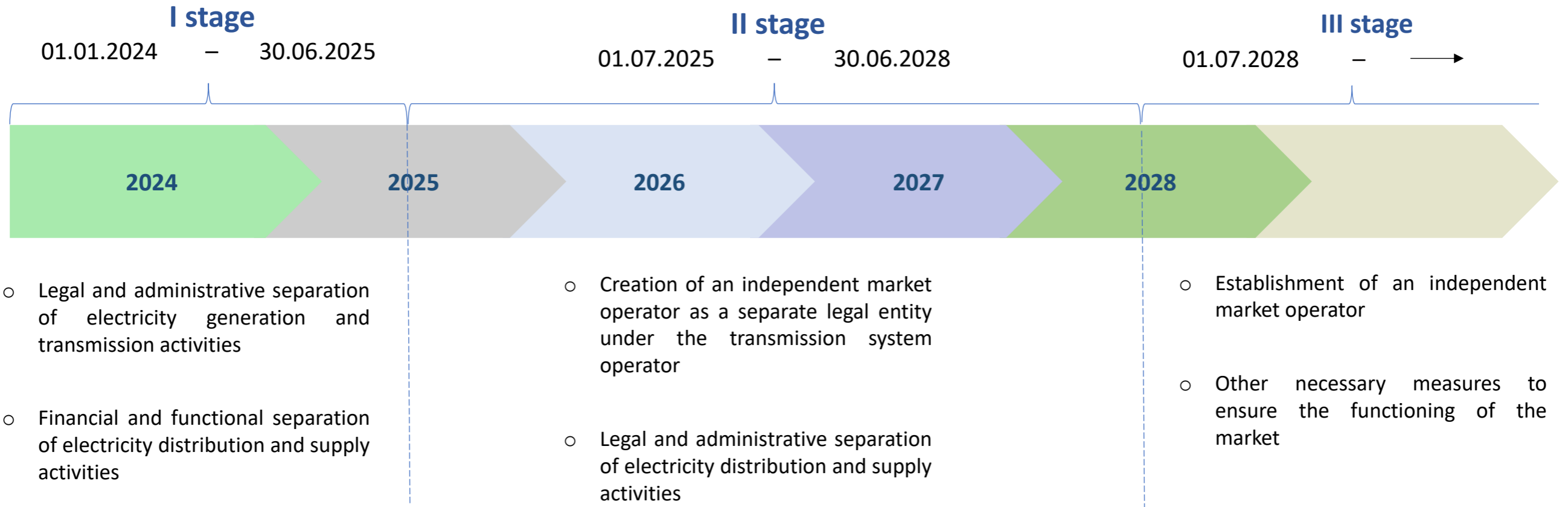
Import and sales exempted from value added tax

Gradual transition to a competitive electricity market



New law “On Electricity” № 858-VIQ, dtd. 11.04.2023

The process of unbundling



Actions taken by the Regulator

"Electricity Network Rules" (Grid Code) → **approved by the Cabinet of Ministers dtd. 25.06.2024**



Procedures of preparation of network development plans



Ten-year forecast of generation and storage capacities



Integration of RES via the next ten-year plan for the development of the distribution network

Draft tariff methodology for determining electricity tariffs → **application was considered appropriate by the Cabinet of Ministers**



The projects mentioned in the network development plans and considered appropriate will be reflected in tariffs



Capital cost element calculated as a return rate for regulated asset base



Incentives related to loss reduction and OPEX optimization regarding to efficiency factor

THANK YOU FOR ATTENTION

Contact details

Address: «Chinar Plaza» Business Center,
Heydar Aliyev ave.152, AZ1029, Baku, Azerbaijan
Phone: (+994 12) 598-16-53/54/55
Fax: (+994 12) 566 09 40
E-mail: office@regulator.gov.az