The installed capacity of the energy system of Georgia - 4 564 MW

Including:
- Hydro plants - 3 354 MW
- Wind power plant - 20.7 MW
- Thermal power stations - 1 189 MW
Electricity energy balance of Georgia

- According to the data of the period of January-December 2022
  - Local electricity generation reached the highest level in the same period of last years
  - Export of electricity has reached the maximum in the last 12 years

*Actual data for 2022 (January-December):*
- Generation – 10.96 Billion. Kwh
- Local consumption - 11.15 Billion. Kwh
- Import - 1,462 Billion. Kwh
- Export - 0.98 Billion. Kwh
Construction of new power plants

- Since 2012, 60 power plants have been put into operation
  - Total installed capacity - 1190.96 MW
  - Total annual generation - 6218.51 GWh
  - Total investment - 1.859 bln. usd$

  Between them:
  - 57 Hydropower plants
  - 2 Thermal power plants
  - 1 Wind power plant
## Development of Renewable Energy

### Current projects

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
<th>Installed capacity (MW)</th>
<th>Annual Generation (GWh)</th>
<th>Approx. Investment (Mln. Usd$)</th>
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</thead>
<tbody>
<tr>
<td>Wind</td>
<td>17</td>
<td>771.5</td>
<td>2907.3</td>
<td>1182</td>
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<tr>
<td>Hydro</td>
<td>118</td>
<td>1129.2</td>
<td>5739</td>
<td>1700.2</td>
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<tr>
<td>Solar</td>
<td>37</td>
<td>251.3</td>
<td>382.5</td>
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<table>
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<tr>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>Wind</td>
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<tr>
<td>Hydro</td>
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<td>494.3</td>
<td>2298</td>
<td>769</td>
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<tr>
<td>Solar</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- **A pilot project for the production of green hydrogen has been launched**
- **A hydrogen committee was formed and began work on an action plan**
"Support Scheme for Production and Use of Energy from Renewable Sources" N403 Resolution of GoG defines measures supporting the construction and operation of a power plant with an installed capacity of more than 5 MW working on renewable sources in Georgia by a private initiator.

☑ Support period - 10 years, 8 months (Sep-Apr) after starting the commissioning according to the applicable law;
☑ Premium tariff up to 1.5 $ cents per kW/h;

Important note: Premium tariff is paid in the form of adding to the wholesale price recorded at the organized electricity market for the relevant hour, only in the cases when during the support period for the relevant hour generated by the Power Plant and at the organized electricity market sold wholesale electricity price is lower than 5.5 $ cents per kW/h;

RES new scheme is based on competition and market principles, which will contribute to the development of the energy sector of Georgia. Development of projects under the mentioned scheme will be carried out in accordance with the PPP legislation. CfD (Variable Premium)

The capacity auction will be held for upcoming 3 years in several lots, for a total amount not exceeding 1500 MW.

- Hydro power plants - 950 MW
- Wind power plants - 250 MW
- Solar power plants - 250 MW
- Other renewables (Hydrogen, biogas, biomass, geothermal etc.) – 50 MW

The abovementioned capacities will be auctioned in three phases (in proportion to the different technologies):

- Phase I - 300 MW (2022-2023)
- Phase II - 400 MW (2023-2024)
- Phase III - 800 MW (2024-2025)

Support conditions

Tariff: -- US cents/kWh - only price component will be open
Support period: 15 years

- Hydro power plant - 8 months (September - April)
- Wind power plant - 9 months (August - April)
- Solar power plant - 12 months
Georgian State Electrosystem provides reliable power supply through the transmission network in Georgia. GSE transmission infrastructure consists of 3350 km transmission lines and 90 substations. The transmission network is controlled from the National Dispatch Centre located in Tbilisi.

**Black Sea Submarine Cable Project**

- Total length of cable -1195 km.
- Capacity - 1000 MW.
- Approx. Investment – 2,1 bln EUR
- Approx. Year of commissioning - 2030

The Submarine cable will also be equipped with a digital connection that will provide high quality telecommunication between Romania and Georgia.
Launch Dates of New Model

- **01.07.2020**
  - Simulated day-ahead market
  - Simulated balancing Market

- **01.07.2023**
  - Day-ahead market
  - Market of bilateral agreements
  - Balancing and supporting services market
  - Provision of wholesale public services by ESCO

- **01.07.2023**
  - Intra-Day Market

Esco and the transmission system operator continue to perform the functions assigned to them.
**New Normative Framework for Promoting Renewable Energies**

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- Solar power plant - 12 months
**Capacity Auction**

• The first auction for 300 MW installed capacity announced on February 10, 2023, has already been completed.

• Totally received 78 proposals for 900 MW.

• As a result of review and evaluation 27 companies have been identified as winners.

• 300 MW were distributed as follows:
  ➢ 150 MW for Hydropower plants (run-off river),
  ➢ 70-70 MW for Wind and Solar power plants
  ➢ 10 MW for other renewable energy power plants*

*As other renewable energy projects were not presented in the auction, 10 MW distributed to wind and hydropower plants.*
The median tariff was established as follows:

- Hydro power plants - 6.850 USD cents
- Wind power plants – 6.823 USD cents
- Solar power plants - 6.367 USD cents

As a result of review and evaluation 27 companies have been identified as winners.
Thank You!

MINISTRY OF ECONOMY AND SUSTAINABLE DEVELOPMENT OF GEORGIA