



*Ministry of Economy
and Sustainable
Development of Georgia*

Renewable Energy Prospects in South East Europe



9th International Forum on Energy for Sustainable Development

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HYDRO POTENTIAL OF GEORGIA

- ❖ **Vast untapped hydro resources;**
- ❖ **One of the top countries in water resources per capita;**
- ❖ **300 out of 26,000 rivers capable of providing excellent opportunities for hydropower production;**
- ❖ **Only 20-21% of total hydro potential is utilized;**
- ❖ **HPP Greenfield potential of 40 TWh;**
- ❖ **World's second highest concrete arch dam with a height of 271.5 meters (891 ft);**



RENEWABLE ENERGY POTENTIAL

Wind Energy

- The total installed capacity of wind power projects can be up to 1500 MW with average annual electricity generation of 4 billion kWh

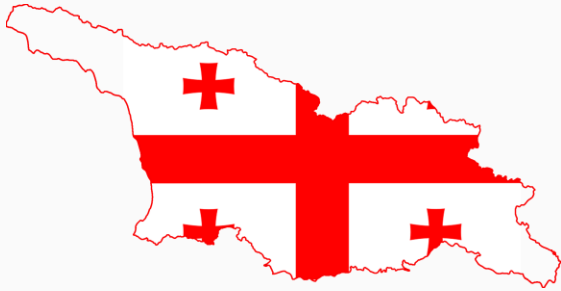


Solar Energy

- During the year in most regions there are 250-280 sunny days and the annual average amount of sunshine hours is over 2000



INSTALLED CAPACITY OF THE SYSTEM



Overall installed capacity:
4102.7 MW

Hydro Power:

76 Operating HPPs

Installed Capacity – 3156 MW

Wind Power:

1 Operating WPP

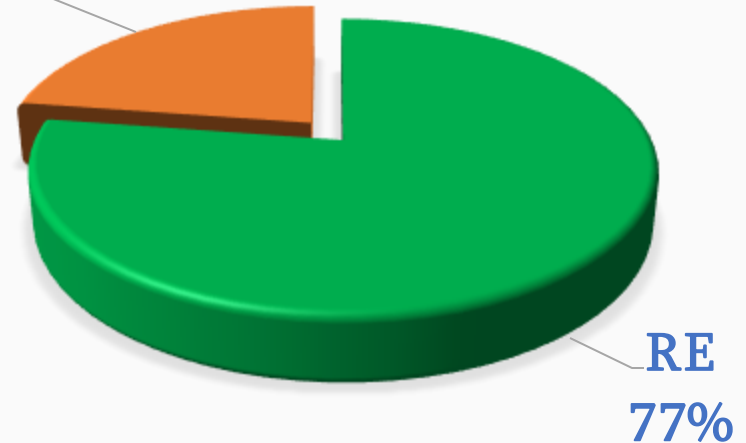
Installed Capacity – 20.7 MW

Thermal Power:

5 Operating TPPs

Installed Capacity – 926 MW

TPP
23%



ONGOING RENEWABLE PROJECTS

□55 Projects on Construction and Licensing – with installed capacity of 1,574 MW, annual generation - 5,452 mln. kWh

□26 Projects on the Feasibility Study Stage with Construction Liability - 1,143 MW, annual generation - 5,203 mln. kWh

□79 Projects on the Feasibility Study Stage - 2,702 MW, annual generation - 10,203 mln. kWh



RE SUPPORTING POLICY DEVELOPMENT

- ✓ NET Metering for small scale RE technologies – Implemented;
- ✓ Improvement of existing legislative framework in compliance with EU Directives;
- ✓ Law of Georgia On Promoting the Production and Use of Energy from Renewable Sources in accordance with **Directive 2009/28/EC** (draft)
- ✓ National Renewable Energy Action Plan (draft)

CHALLENGES FOR ACCELERATION OF RENEWABLES

- Regulatory framework in the process of implementation;
- Limited financial capacities;
- Technology price;
- Regional characteristics.;
- Limitations of existing energy infrastructure;
- Price of RE energy that can not compete with traditional energy.

REGIONAL COOPERATION IN RENEWABLES

Ongoing Efforts:

- Market Coupling with Turkey – *with assistance of Norwegian Government*
- Cross border capacity allocation rules – *with assistance of EU4Energy Program*
- Ongoing market reform – *supported by different donor organizations*

Challenges

- Different approach in regulatory framework development;
- Interconnectivity infrastructure limitations;
- Different energy mix by countries (energy priorities);
- Different cross border trade regulations;

Opportunities:

- Decreasing cost of renewables;
- Open market for renewable energy;
- Harmonized rules for cross border trading for clean energy

INTERNATIONAL SUPPORT

- Enhancement of Research for development Renewable Energy Sources;
- Sharing the knowledge and best practice;
- Support in public awareness raising;
- Support in development legal framework;
- Support in implementation of regional projects;
- Support Georgia in market reform process that will enhance regional cooperation within the region;



Thank you for your attention!

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