

MINISTRY OF ENERGY OF GEORGIA



NATIONAL ENERGY PLAN IN GEORGIA

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RENEWABLE ENERGY PROJECTS

➤ 77 HPP on-going Projects

- Total installed capacity of **3825 MW** and annual generation up to **16 TWH**
- Projected investment **USD 4 bln.**
- Construction works to be finished in 2014-2025

➤ Major companies operating in

Georgia

- Anadolu (Turkey)
- Peri (Georgia)
- Ağaoğlu (Turkey)
- Trans Electrica Ltd.(India)
- Clean Energy Group (Norway)
- KGM (Turkey)
- Rusmetal (Georgia); and etc
- Tata Group (India)

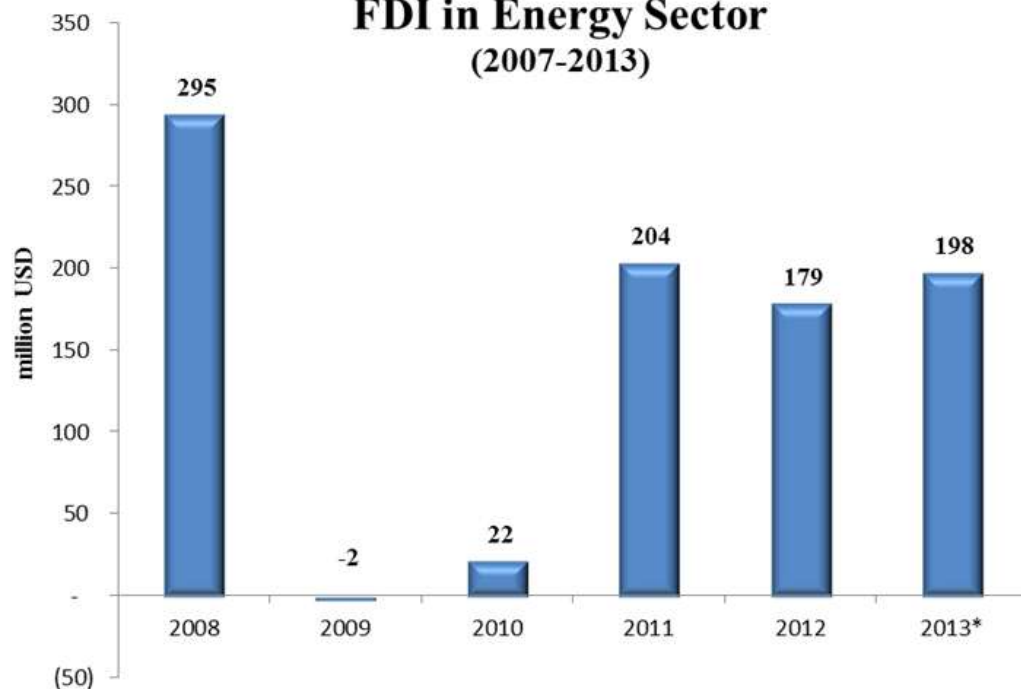




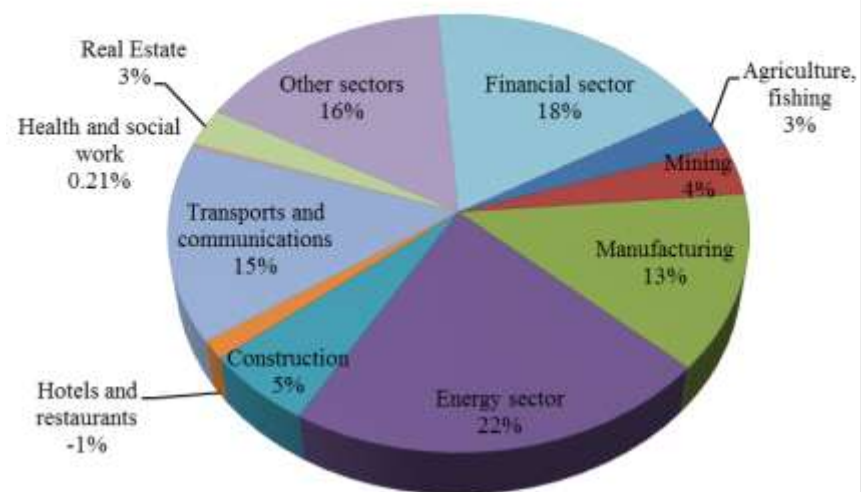
FDI inflows in Energy Sector

In 2013 year, Foreign Direct Investment inflows in the Energy Sector was 198 million USD*.

**FDI in Energy Sector
(2007-2013)**



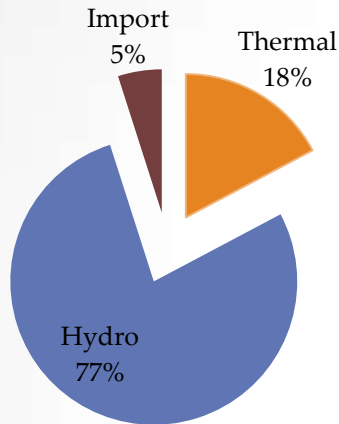
**FDI shares by Sectors
2013 year**



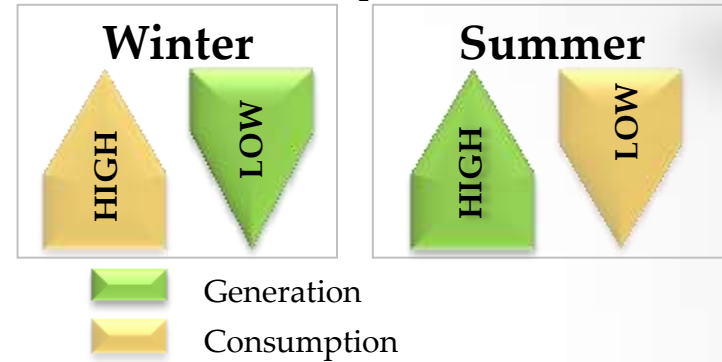
GENERATION OF ELECTRICITY



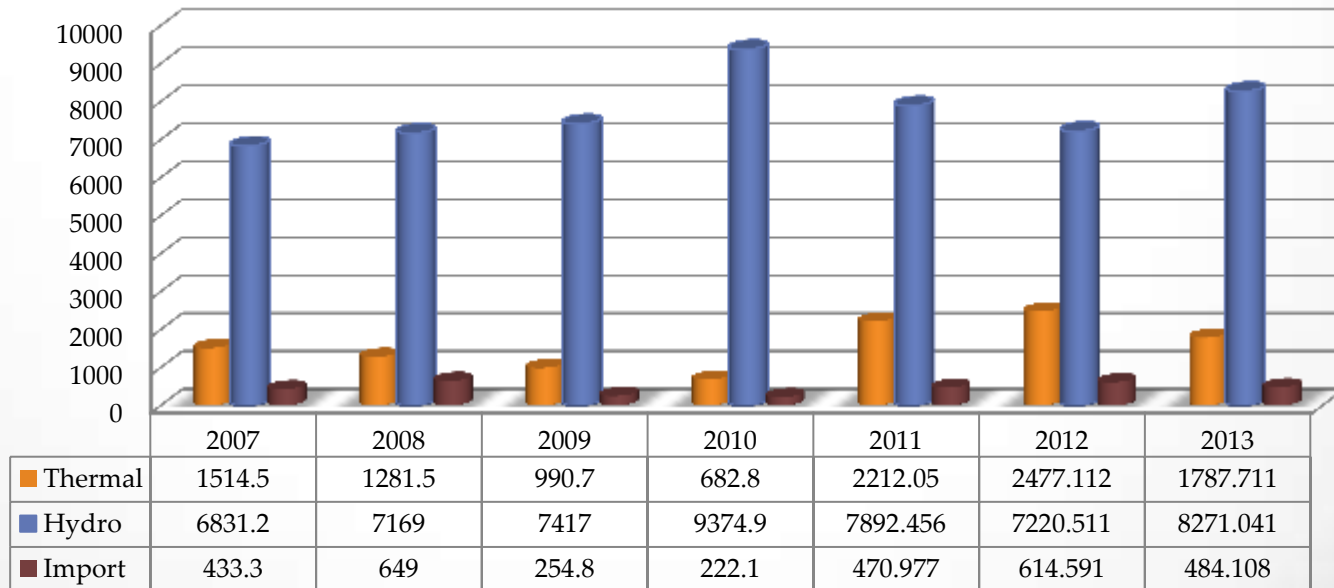
Total Resource 2013



Seasonal Asymmetry of Generation and Consumption



Component of total Consumption



GOVERNMENT REGULATIONS – PRIORITIZING RENEWABLE INVESTMENTS



- ✓ Renewable projects are based on Build-Own-Operate (BOO) principle
- ✓ All new HPP plants are totally deregulated - No tariff set for the newly built HPPs - investor is free to choose the market and negotiate the price
- ✓ There is no fee for the connection to the transmission grid
- ✓ Developer benefits from carbon credits trading
- ✓ New HPPs have priority access to the capacity on the new interconnection to Turkey (Long term contract with TSO)
- ✓ Generation and Export activities are exempted from VAT
- ✓ PPA for 20% of annually generated electricity for 10 year period for domestic supply



DEVELOPMENT OF TRANSMISSION INFRASTRUCTURE

- Georgia plans to connect power plants with total installed capacity of 5000 MW to the grid by 2022.
- Capacity will cover increasing demand of 3%-5% for electricity and increase export opportunities for the country.
- It is important to further develop transmission infrastructure in order to secure transmission of electricity in reliable and efficient manner, which will require 400 million Euro investments.



GRID MAP OF GEORGIA FOR 2022





STRATEGY OF THE COUNTRY

- To ensure energy security of the country through diversification of energy sources and transit routs
- To develop east-west and north-south energy transportation infrastructure in order to increase transit capacity of the country
- To improve energy security through construction of new hydro and wind power plants and development of other renewable sources
- To attract foreign investments in the power generation sector
- To strengthen co-operation with the international organizations in order to accelerate integration of the country into European and Euro-Atlantic organizations



INPRO Methodology – Next step?

How to implement

- Initial information obtained from participation in the IAEA regional TC project RER/0/025 – familiarization of IAEA tools for energy planning scenarios;
- Georgia is an INPRO observer state since 2008 – regular participation in INPRO dialog forums and INPRO steering committee meetings;
- Georgia applied for TC national on assessment of infrastructure for nuclear energy application – GEO/0/003 – establishment of team of Georgian experts for energy planning by using IAEA tools (MESSAGE, MAED, FINPLAN);



THANK YOU