

Georgian National Energy and Water Supply Regulatory Commission

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Data Collection and Management Experience in Georgia







REGULATION FOR DEVELOPMENT

Content

- Legal framework
- Data types
- Data processing and formats
- Status quo of market monitoring
- Way forward and future challenges





Legal Framework

- Law of Georgia on Electricity and Natural Gas:
 - ➤ Market operator, importers, exporters, natural gas suppliers and licensees shall submit annual reports to the GNERC
- GNERC's Resolution on Approving of Rules of Licensing and Activity Control in the Electricity, Natural Gas and Water Supply Sector:
 - Licenses are required to reports on fulfilling licensing requirements every year between 1 April to 1 May.
 - Activity report on previous year (technical and financial)
 - Next year activity plan
 - Investment plan
- GNERC's resolution on Supply and Consumption Rules:
 - ➤ Distribution Licenses are required to submit quarterly information to the GNERC during 1 month after the end of each quarter.







Data Types

Financial Data

Technical Data:

- Distributed electricity by voltage
- Electricity received from generation and transmission
- Technical and commercial losses by voltage
- Information on metering points
- Peak loads
- Technical assets
- Information on new connections
- Information on pas through service

Market Data

Financial Data Technical Data:

- Installed Capacity
- Capacity Factor
- Number of outages and elec. not supp
- information on metering points
- List of network assets
- Information of technical assets

Market Data

- List of contracts
- Electricity generation by voltage levels

Financial Data

Technical Data:

- Cross-border capacity by countries
- System outages
- Information on Voltage and Frequency
- Peak loads
- System hourly loads
- Information on cross-border capacity allocation (NTC, ATC, ALC, NAC)
- Information on capacity auctioning

Market Data

Financial Data Technical Data:

- Electricity delivered and received by voltage and difference customers / sources
- Technical and commercial losses by voltage
- Information on metering points
- Peak loads
- Technical assets
- Information on new connections (Costumer, Generation)

Market Data



Data Processing and Formats

- Validation
- Cross-checking
- Classification
- Summarization
- Aggregation











Market Monitoring activities

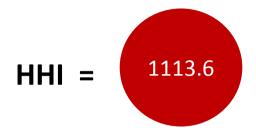
- According to Georgian Law on Electricity and Natural Gas, GNERC is eligible to monitor energy markets (30.12.2013)
- Source of monitoring:
 - Quarterly and annual reports from market participants
 - Independent cases based on consumers' complaints
- Areas of monitoring
 - Market shares and concentrations
 - Transmission capacity
 - Supply-Demand analysis
 - Market participants behavioral analysis
 - Market Performance analysis





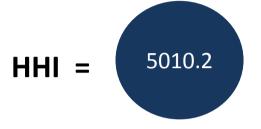
Market Shares and Concentration

Generation



Moderately Concentrated

Retail Supply



Highly Concentrated

Market shares	of 3 larges	st market	participants
Market Shares	or or largo.	ot mance	participarito

LTD "Enguri HPP"	31%	JSC "Energo-Pro Georgia "	62.5%
LTD "Mtkvari Energetika TPP"	10.89%	JSC "Telasi"	32.9%
LTD "Vartsikhe HPP"	7.21%	JSC "Kakheti Energy Distribution"	4.6%



Way forward

Past Future





Future Challenges

- Standardize reports in electricity, natural gas and water sectors
- Annual reporting to be harmonized with tariff application process
- Establish online database and reporting platform
- Harmonize data forms with EU standards (Eurostat)
- Possible engagement in the data processing and management by regulated companies
- Data collection from different sources about voltage quality
- Put in practice market monitoring indices:
 - Residual Supply Index
 - Lerner Index
 - Outage Analysis
 - > Short, medium and long-term evolution of the market;
 - Implement penalizing procedures
 - Implement simulation models







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Thank You



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