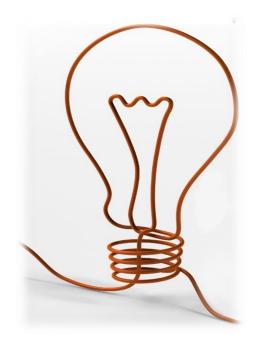


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G&T Industry Series

Electricity Market February 2019

Content

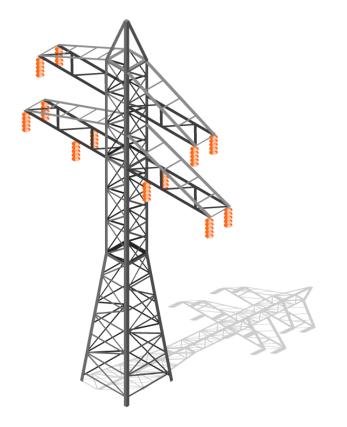


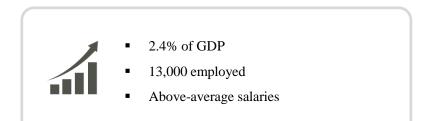
Georgia's Electricity Sector

- Funding and profitability
- Consumption trends
- Generation trends
- Price dynamics
- Export potential
- Challenges, changes, opportunities



Capital intensive sector with reasonable profits





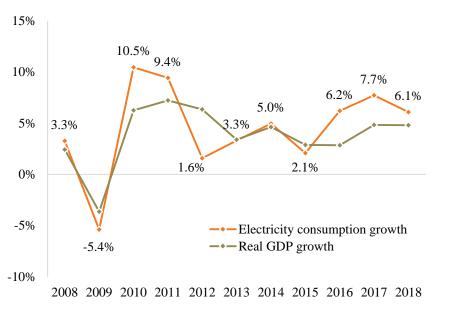


- Turnover GEL 2.6bn in 2017
- EBITDA margin 19%
- Operating profit margin 10%

- FDI 2nd largest recipient
- IFIs c. US\$ 670mn
- Local banks US\$ 350mn
- Investment pipeline US\$ 10bn in 2019-30

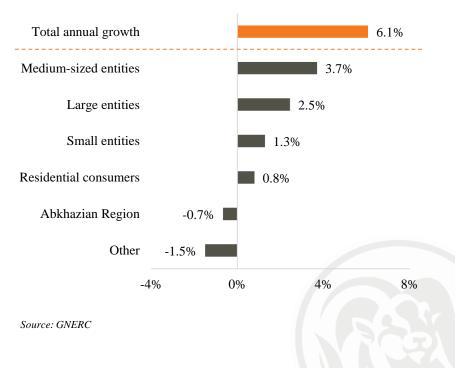


Business sector drives electricity consumption



Electricity consumption in Georgia

Contributions to annual consumption growth, 2018



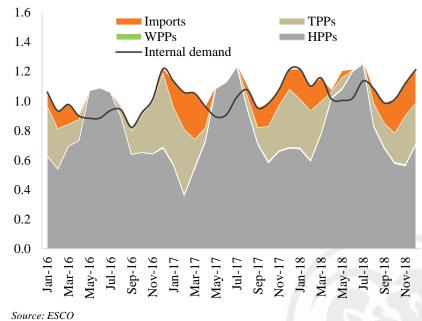


Source: ESCO, GeoStat

Stable growth in generation, imports still needed



Seasonality of electricity supply, TWh

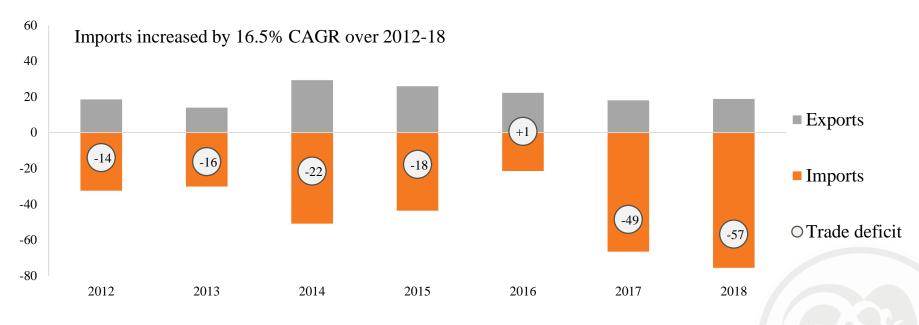


Source: ESCO



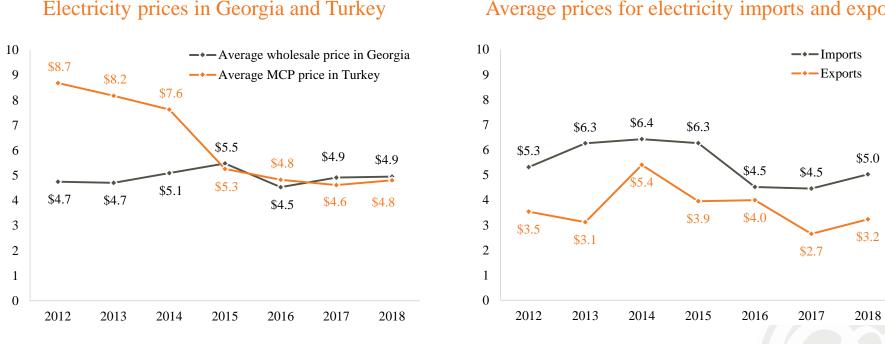
Trade deficit widened in recent years

Trade balance of electricity, US\$ mn



Source: GeoStat





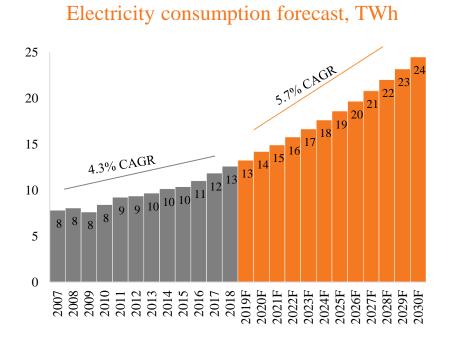
Average prices for electricity imports and exports

Source: ESCO, GeoStat, Epias

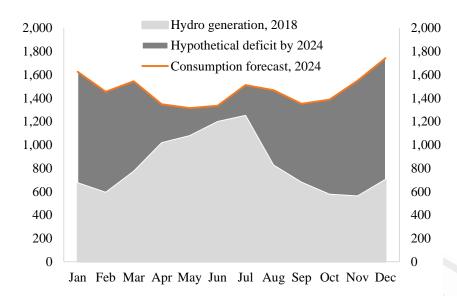
Source: ESCO, GeoStat



Electricity consumption expected to double by 2030



Hypothetical deficit by 2024, GWh



Source: ESCO, Galt & Taggart Research

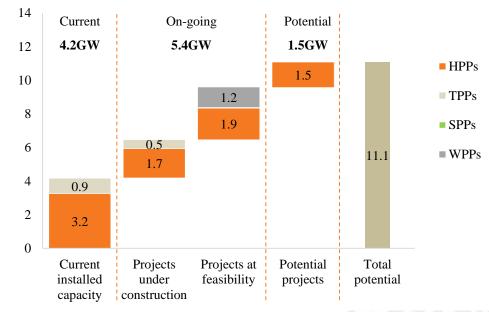


Source: ESCO, Galt & Taggart Research

Promotion policy before 2017

- Power Purchase Agreement
- Memorandum of Understanding
- Renewable Energy 2008
- Promotion of exports
- New transmission lines
- TDAs to Turkey
- Identification of sites
- Pre-feasibility studies
- Pilot projects

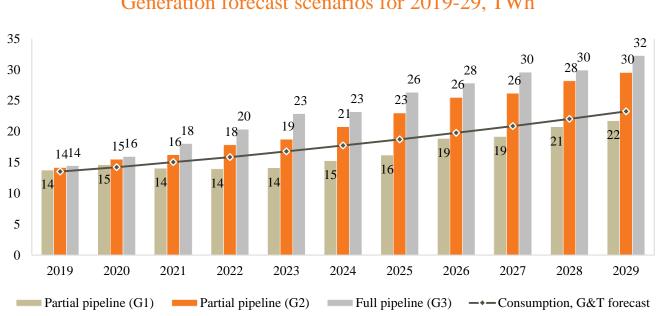
Potential installed capacity, GW



Source: MoESD, Galt & Taggart Research



Local demand can be met by increased generation...



Generation forecast scenarios for 2019-29, TWh

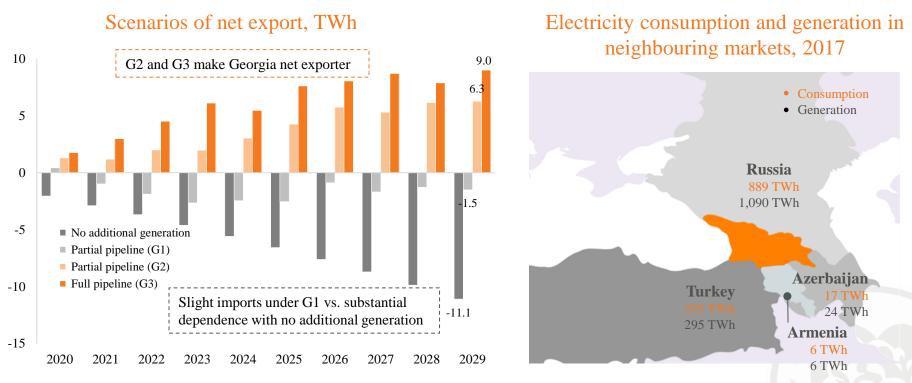
✓ Scenario G1:

- Full commissioning of the • HPPs under construction
- Half of HPPs at licensing ٠ stage
- None at feasibility stage ٠
- ✓ Scenario G2:
 - 25% of projects at feasibility • stage are added to the G1
- ✓ Scenario G3:
 - All projects are ٠ commissioned on time

Source: GSE, Galt & Taggart Research



Georgia can become net exporter of electricity

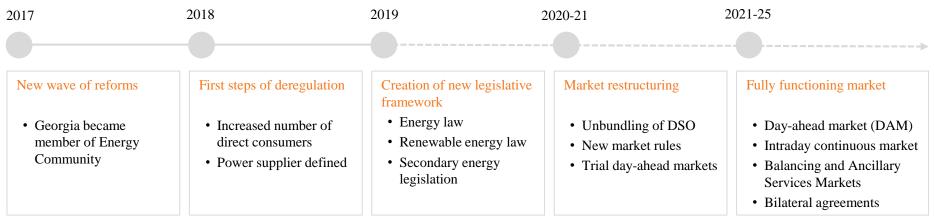


Source: EPIAS, Electric Networks of Armenia, State Statistical Committee of Azerbaijan, Global Energy Statistic Yearbook, Galt & Taggart Research

Source: GSE, Galt & Taggart Research



Expected reforms & timeline

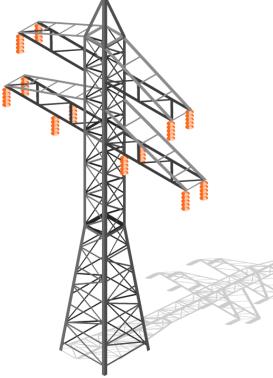


Source: Galt & Taggart Research

- Energy community membership brings transparency and competition on the market
- Reforms will open up path to the new type of investors and bring assistance of donor organizations
- New markets need time to gain credibility



Key findings



- Growing economy needs increased electricity consumption
- Without new generation capacities electricity imports/deficit will grow dramatically
- Impressive pipeline due to government promotion policy but many projects uncertain
- Investment environment changed, but upcoming reforms bring positive
 expectation
- Despite current uncertainties, exporting to neighboring markets is promising





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Thank you

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Eva Bochorishvili Head of Research | evabochorishvili@gt.ge | +995 32 2401 111 ext. 8036

Mariam Chakhvashvili Senior Analyst | mchakhvashvili@gt.ge | +995 32 2401 111 ext. 7897

