



ASIA CLEAN ENERGY FORUM 2026

Beyond Transition: Building Secure, Resilient, Inclusive, and Intelligent Energy Systems

8–11 June | ADB Headquarters, Metro Manila, Philippines



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Next Generation Energy Systems in Central, West and East Asia: Technology, Markets and Regional Integration

Shaping Georgia's Energy Future Through the Development of Battery Energy Storage Facilities

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11 June 2026 | 9 am- 12:30 p.m.
(GMT+8)



Georgian State Electrosystem (GSE)

Georgian State Electrosystem (GSE)

- Sole Electricity Transmission System Operator (TSO) in Georgia;
- Responsible for the reliable operation, development and management of the national transmission network;
- GSE owns and operates more than 3,400 km of high-voltage transmission lines and 43 substations across the country;
- GSE ensures real-time balancing of electricity supply and demand through its National Dispatch Center;
- Manages cross-border electricity interconnections with Turkey, Armenia, Azerbaijan, and Russia.



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Project Financing and Institutional Framework

Financing Institution

- ▶ The project is financed by the **Asian Development Bank (ADB)** under the **Energy Storage and Green Hydrogen Development Project**.

Total Project Investment

- ▶ **USD 104 mln**, directed toward the development and deployment of the BESS infrastructure and associated grid integration works, and capacity-building components.

USD 144 M
ADB-Financed Investment



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Rationale for Battery Energy Storage Development in Georgia

The need for Battery Energy Storage Systems in Georgia is driven by several key developments in the power sector:

- **Rapid growth of renewable energy capacity** - particularly solar and wind generation;
- **Increasing balancing challenges** - TSO must continuously maintain the balance between electricity generation and consumption;
- **Grid flexibility and resilience** - BESS provides essential services such as frequency regulation, peak demand support, and emergency response capabilities;
- **Regional electricity market integration** - energy storage enhances the country's ability to participate in cross-border electricity trade, supports regional interconnections, and strengthens Georgia's role as a reliable energy partner in the region.



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Project Scope and Components

The Project comprises two interrelated components:

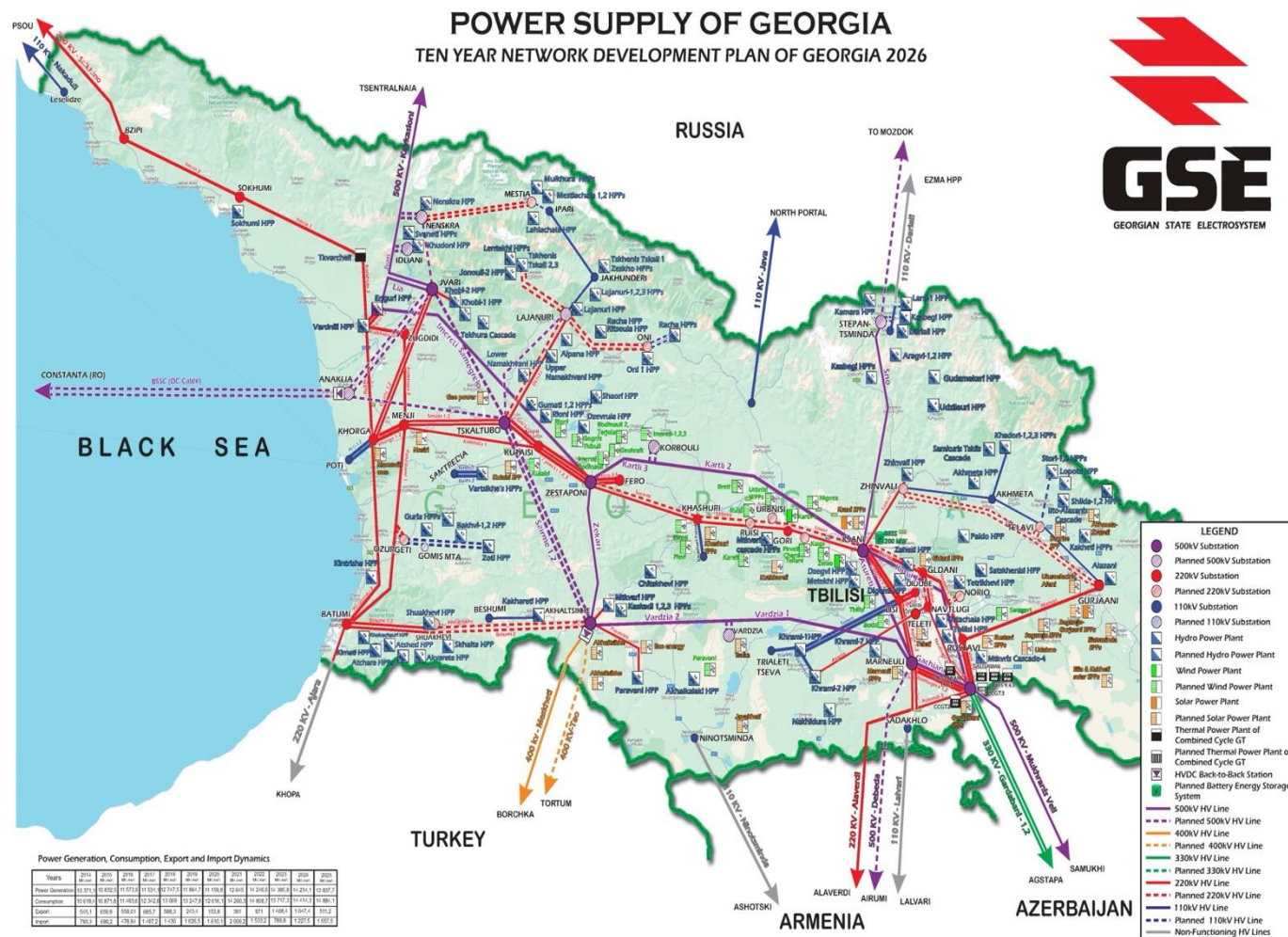
① Infrastructure Component - BESS Deployment

- Design, supply, installation, commissioning, and full grid integration of a **climate- and disaster-resilient 200 MW / 200 MWh Battery Energy Storage System (BESS)**.

② Policy and Regulatory Reform Component

- Development and approval of the **legal and regulatory framework** required to enable sustainable BESS deployment and private sector participation in energy storage markets, alongside enhancement of GSE's institutional and technical capacity.

Georgia's First BESS: Project Overview and Technical Scope



- BESS project is of strategic national and regional significance, representing the first **Battery Energy Storage System (BESS)** of its kind in Georgia;
- More than a 200MW/200MWh BESS facility will be directly connected to the **Ksani substation**;
- Georgia's **generation capacity is predominantly concentrated in Western Georgia**, where most hydropower plants are located. At the same time, **electricity demand is highest in Eastern Georgia**, which creates substantial power transfers across the transmission network;
- Eastern Georgia is expected to become the center of solar energy development due to its favorable climatic conditions;
- **BESS serves as a bridge** between Georgia's traditional hydropower-based system in the west and its future renewable energy growth in the east.



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Key Targets and Milestones for 2026

- ▶ **BESS Contract Award - June 2026 (targeted):** Finalization and execution of the main BESS procurement contract with the selected bidder.
- ▶ **Project Commencement - July 2026 (targeted):** Formal commencement of BESS project implementation activities following contract award.
- ▶ **Supervision Consultant Contract Award – July-August 2026 (targeted):** Award of the Supervision Consultant services contract to ensure independent technical oversight and quality assurance throughout BESS implementation.



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Expected Outcomes and System Benefits

- **Grid Stability and Frequency Control;**
- **Renewable Energy Integration;**
- **Operational Flexibility;**
- **Energy Security;**
- **Market Modernization;**
- **Advancement of regional energy market integration.**



Geopolitical importance

- Georgia occupies a unique geopolitical position at the crossroads of Europe and Asia, serving as a strategic energy transit corridor between the Caspian region, the South Caucasus, and European markets.
- The country plays an increasingly important role in regional energy security, electricity trade, and the development of the Middle Corridor connecting Central Asia and Europe.



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Thank You

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