

Mongolia energy storage industry

The knowledge and support technical assistance (TA) will accelerate renewable energy penetration in the Central Energy System (CES) in Mongolia through (i) assessment of current status and future projection of CES, (ii) identification of innovative energy storage technologies, and (iii) assessment of their market potential and development of energy storage deployment strategy.

The TA is included in the Mongolia: Country Operation Business Plan (2018-2020). The propose TA is fully aligned with the Country Partnership Strategy (2017-2020) priority on improving natural resource management and broadening climate change response to support the government's priorities on the Mongolia Sustainable Development Vision 2030. The TA will also support the strategic priorities of the Asian Development Bank's (ADB) Midterm Review of Strategy 2020 to mitigate climate change and promote environmental sustainability.

Energy / Energy utility services

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The current energy capacity development cannot meet increasing demand without additional investment. Considering demographic and economic development, heat demand deficit in Ulaanbaatar is expected to grow from 44 gigacalorie per hour (Gcal/hr) in 2014 to 749 Gcal/hr in 2025 at an average annual growth rate of 32.3%. Power demand is expected to grow at 133 megawatt (MW) per annum from 697 MW in 2012 to 3,161 MW in 2030.

The energy storage technologies can offer a great level of flexibility at both temporal and spatial scales for integration of electricity and heat systems. They are identified to be valuable in most energy systems, with or without high levels of variable renewable generation, to (i) improve efficiency of the energy system, (ii) help to integrate higher levels of variable renewable resources, (iii) increase energy access, and (iv) improve electricity grid stability, flexibility, reliability and resilience. The TA will identify technically feasible and financially viable energy storage technologies within the Mongolian energy system and develop viable commercial solutions for scaling up their deployment.

Renewable energy capacity increased

Readiness for investments in energy-storage technologies increased



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Status and supply-demand projection of electricity and heat in the CES assessed

Technically feasible energy-storage technologies identified

Market potential for energy storage assessed

Energy-storage deployment strategy developed

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