

Strengthening Capacity of Power System Operation and Maintenance

Project Purpose: Strengthening Capacity of Power System Operation and Maintenance. The project aims to strengthen the training capacity of operation and maintenance technicians in the power sector through the construction of a Nearly ZEB training center and installation of advanced training simulators and renewable energy training equipment, thereby contributing to energy efficiency, energy conservation, and the promotion of renewable energy in the Kyrgyz Republic.

Project Period: 2025 – 2029 (Grant availability until 31 May 2029)

Implementing Organization (Counterpart)

- Ministry of Energy of the Kyrgyz Republic
- OJSC National Electric Grid of Kyrgyzstan (NEGK)

Estimated Project Cost*: JPY 1.535 billion (approx. USD 9.7 million) including contingencies

Project Site: Bishkek, Kyrgyz Republic (NEGK Training Center site)



Current training center classroom



Lectures at the current training center classroom

* Japanese side assessments at the ex-ante evaluation stage

*By official JICA rate as of Oct 2026 USD = 157.391

Expected Outcomes

- Enhanced training functions for power system operation and maintenance personnel through establishment of a modern training facility.
- Improved capacity of technicians and engineers responsible for operation and maintenance of the national power system.
- Increased awareness and practical skills related to energy efficiency, energy conservation, and renewable energy technologies.
- Strengthened institutional capacity of NEGK to provide continuous professional training for power sector personnel

Key Activities:

Construction

- Construction of a new **Nearly ZEB (Net Zero Energy Building) Training Center**
 - One-story building
 - Approx. 1,000 m²
 - 17 training and functional rooms

Training Equipment

- Installation of a **Power System Monitoring and Operation Training Simulator**.
- Installation of a **Protection Relay Training Simulator**

Renewable Energy and Energy Efficiency Facilities

- Rooftop **Photovoltaic Power Generation System (120 kW)**.
- **Battery Energy Storage System (100 kW / 2-hour capacity)**.
- Demonstration facilities showcasing energy-efficient and sustainable building technologies aligned with SDGs and ZEB concepts.

Consulting Services

- Detailed design
- Tender assistance
- Construction supervision