

 Early Warning System

AIIB-000995

Indonesia: Proyek Hijaunesia Staple Financing - Gajahmungkur 100 MW
Floating Solar PV Project



Quick Facts

Countries	Indonesia
Specific Location	Gajah Mungkur Reservoir Wonogiri Regency, Central Java Province
Financial Institutions	Asian Infrastructure Investment Bank (AIIB)
Status	Proposed
Bank Risk Rating	A
Voting Date	2025-11-13
Borrower	PT PLN Indonesia Power Renewables and GCL Intelligent Energy (Suzhou) Co., Ltd
Sectors	Energy
Investment Type(s)	Loan
Investment Amount (USD)	\$ 19.00 million
Loan Amount (USD)	\$ 19.00 million
Project Cost (USD)	\$ 96.00 million



Project Description

According to the AIIB, the objective of the Project is to contribute to Indonesia's renewable energy capacity and decarbonization goals by supporting the installation and operationalization of a 100-megawatt greenfield utility-scale floating solar photovoltaic project.

The Project involves the development, construction, operation, and maintenance on a Build-Own-Operate basis of a greenfield floating solar photovoltaic power plant with a capacity of 100-megawatts, located in Gajah Mungkur Reservoir Wonogiri Regency, Central Java Province, Indonesia.



Early Warning System Project Analysis

ADB has categorized the ES risks of the Project in Gajahmungkur as Category B for Environment, A for Involuntary Resettlement since the impacts of resettlement are significant and C for Indigenous Peoples since there is no presence of IPs in the Project area. This categorization is equivalent to Category A if AIIB's ESP were to be applied.

According to the AIIB:

Environmental Aspects

The Project is expected to generate positive environmental and social outcomes from the construction of a renewable source of energy generation. Implementation of physical investments, however, may cause a wide range of risks and impacts on the environment and human health during the construction and operation phases. During the construction stage, various activities such as land preparation and installation of solar panels can have adverse environmental impacts. These include air quality impacts due to dust and pollutant emissions from vehicles and equipment, noise pollution and vibration impacts, from construction activities, soil contamination from the use of heavy equipment, runoff, and soil erosion leading to water quality impacts, and potential loss of habitat and species due to land clearing and traffic congestion and deterioration of road due to heavy traffic movement. These impacts have been assessed, and mitigation measures are proposed in the ESIA/ESMP for the Project. During the operation stage, key environmental impacts include potential impact to surface water quality, environmental health, and ecosystem services such as important provisioning services due to competition of various uses of natural resources, and impacts on biodiversity such as avian fauna mortality due to collision and/or electrocution on overhead power transmission lines, and disruption of wildlife movement and/or migrations due to barrier effect of solar PV arrays, as well as impacts to reservoir hydrology and aquatic ecology. Mitigation measures have also been proposed in the ESIA/ESMP to address these impacts such as development and implementation of management plans on waste management, water quality/fisheries management, and biodiversity management that is required for the conduct of supplemental baseline studies on and monitoring of fish behavior and overall reservoir dynamics, and post-construction fatality monitoring of avian fauna during the commissioning and operation of the Project to review the current risk and impact, ensuring provision of buffer between Project footprint and nearby existing wildlife corridor, if any, and consideration of potential environmental impacts in selecting preferred technology and finalizing detailed design.

Social Aspects

Key social risks and impacts are land acquisition and economic displacement of farmers/local communities in the Project footprints. It is estimated that the Project will affect 178 households (634 people). Of these, 77 households (276 people) are assessed as severely affected due to their loss of more than 10 percent of their assets/income. The Project will acquire 352.83 hectares of land, but no physical displacement or relocation is expected as the Project owner commits to avoid physical displacement impact. While lands/reservoirs intended for ground mounted solar and floating power plants are available for construction, some of them are under concession arrangements within government agencies and are being used by some land users for agricultural purposes. Acquiring some of these lands/reservoirs will require some inter-government agencies' leasing arrangements and will lead some existing land users, including laborers, farmers/agricultural workers, and fishermen to lose some livelihoods and incomes. Construction of transmission towers will lead affected farmers to lose some agricultural lands and some assets within the footprints of transmission towers. Likewise, construction of the transmission line/access roads will cause farmers along the right-of-way to lose some income, due to some restriction on their agricultural land use. During the installation and the operation phase of the Project, local fishermen will experience temporary and permanent access restrictions to reservoir for fish collection, which is their main source of livelihood. The draft LALRP following the government's relevant legislation and ADB's SPS (2009) are available. The draft LALRP will be reviewed by AIIB and ADB to ensure their compliance with ADB's SPS, followed by public disclosure of the documents for consultation with affected people.

Gender Aspects



Investment Description

- Asian Infrastructure Investment Bank (AIIB)

According to the AIIB, the total Project cost is USD96 million, of which the proposed AIIB loan is USD19 million. The remaining Project costs will be funded by the Sponsors and/or other financial institutions including ADB.



Private Actors Description

As stated on the company's LinkedIn profile, PT PLN Indonesia Power, known as PLN-IP, is a sub-holding company of PT PLN (Persero) holding which is conducting electric power generation and other supporting businesses. PLN-IP is the largest provider of power generation supplying above 20 GW capacity in Indonesia.

PT PLN Indonesia Power Renewables is a subsidiary of PT PLN Indonesia Power.

As stated on the company's website, GCL (Group) Holdings Co., Ltd. is a green, low-carbon technology enterprise driven by China's "Carbon Peak and Carbon Neutrality" goals, focusing on diversified new energy, clean energy, and renewable energy solutions such as wind, solar, energy storage, hydrogen, ammonia, and alcohols. Founded in 1990, GCL has consistently prioritized technological innovation and digital empowerment over its 35-year history, advancing breakthroughs in silicon, lithium, carbon, and core integrated circuit materials.

As of now, GCL Group boasts total assets exceeding RMB 200 billion, annual revenue nearing RMB 200 billion, and a brand value surpassing RMB 210 billion. It oversees multiple A-share and H-share listed companies, including GCL Technology (03800.HK), GCL System Integration (002506.SZ), GCL New Energy (00451.HK), and GCL Energy (002015.SZ), with over 40,000 employees. The group is supported by an expert think tank led by more than 10 members of the Chinese Academy of Sciences and Chinese Academy of Engineering, alongside 20+ specialized R&D teams and a talent pool of 3,000+ global energy technology experts. GCL allocates 3%-5% of annual revenue to R&D, securing nearly 4,000 patents and intellectual property rights. It has led or participated in drafting over 300 international, national, and industry standards, operates 75+ national/provincial-level research platforms, and undertakes 60+ state-level projects annually. All core subsidiaries are certified high-tech enterprises.



Private Actor 1	Private Actor 1 Role	Private Actor 1 Sector	Relation	Private Actor 2	Private Actor 2 Role	Private Actor 2 Sector
GCL (Group) Holdings Co., Ltd.	Client	Energy	contracts with	PT PLN Indonesia Power Renewables	Client	Energy
PT PLN Indonesia Power	Parent Company	Energy	owns	PT PLN Indonesia Power Renewables	Client	Energy
PT PLN Persero	Parent Company	Energy	owns	PT PLN Indonesia Power	Parent Company	Energy



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ACCESS TO INFORMATION

You can submit an information request for project information at: <https://www.aiib.org/en/contact/information-request/index.html>

ACCOUNTABILITY MECHANISM OF AIIB

The AIIB has established the Accountability Mechanism for Project-Affected People (PPM). The PPM provides an opportunity for an independent and impartial review of submissions from Project-affected people who believe they have been or are likely to be adversely affected by AIIB's failure to implement the ESP in situations when their concerns cannot be addressed satisfactorily through Project level GRMs or AIIB Management processes. Two or more project-affected people can file a complaint. Under the current AIIB policy, when the bank co-finances a project with another development bank, it may apply the other bank's standards. You can refer to the Project Summary Information document to find out which standards apply. You can learn more about the PPM and how to file a complaint at: <https://www.aiib.org/en/about-aiib/who-we-are/project-affected-peoples-mechanism/how-we-assist-you/index.html>

The complaint submission form can be accessed in Arabic, Bahasa Indonesia, Bengali, Chinese, English, Tagalog, Hindi, Nepali, Russian, Turkish, or Urdu. The submission form can be found at: <https://www.aiib.org/en/about-aiib/who-we-are/project-affected-peoples-mechanism/submission/index.html>



Bank Documents

- [ESIA Report](#)
- [Land Acquisition and Livelihood Restoration Plan](#)
- [Project Summary \(September 30, 2025\)](#) [\[Original Source\]](#)



Other Related Projects

- AIIB-000935 Indonesia: Proyek Hijaunesia Staple Financing - Pasuruan 100 MW Solar PV Project
- AIIB-000994 Indonesia: Proyek Hijaunesia Staple Financing - Banyuwangi 100 MW Solar PV Project