



European Investment Bank (EIB)

Luxembourg, 17/10/2019

## Environmental and Social Completion Sheet (ESCS)

### Overview

Project Name:	ENEL GREEN POWER PERU
Project Number:	2016-0848
Country:	Peru
Project Description:	The project comprises the implementation of two renewable energy plants: <ul style="list-style-type: none"> <li>Wayra wind farm, located in the Nazca region, around 400 km south of Lima, with an installed power of 132.3 MW, comprising 42 turbines AWP125 3.15 MW. Interconnection to the grid performed via a power substation, located at the project site, and a 600-metre 220 kV aerial power line;</li> <li>Rubí solar PV plant, located in the region of Moquegua, ca. 1000 KM south of Lima, close to the border with Chile, with an installed power at the solar field 180 MW, and 144 MW at the interconnection point. Interconnection to the grid via a power substation and a 22 km 220 kV aerial power line.</li> </ul>

### Summary of Environmental and Social Assessment at Completion

#### **EIB notes the following key Environmental and Social outcomes at Project Completion.**

After receiving the relevant information after project completion, at the end of the first operational year, it can be concluded that no significant environment or social issues were noted.

The projects were implemented in line with the technical description and the environmental licences granted by the authorities.

The promoter has submitted evidence about the compliance with such licences, and records of monitoring carried out during construction and commercial operation.

#### ***Rubí Solar PV plant***

The project was implemented as per the technical description, and complied with the requirements and conditions stated in the environmental licence.

During the initial operational period, as well as for the construction phase of the project, there were no environmental incidents reported.

As per the requirements of the environmental management plan, monitoring of waste, air, quality, noise, soil, flora and fauna was carried out. In all cases, the results were in line with the local regulations, as established in the environmental licence.

The promoter received some complaints about high noise levels associated with alarms of electronic equipment, which were duly attended to, although the noise levels were in line with the regulations. No other complaints or grievances were received.

#### ***Wayra Wind farm***

The project was also implemented as per the technical description, and complied with the requirements and conditions stated in the environmental licence.

During the construction phase, there were no environmental or archaeological incidents, and no negative impacts were generated on the environment or cultural heritage surrounding



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the project. No environmental liabilities have been generated and all areas affected by the construction process have been restructured.

Additionally, no severe accidents were reported either.

During the construction phase, the Peruvian Environmental Inspection Authority, confirming compliance with the environmental licence and local regulations, carried out regular supervision.

As regards social aspects, the most relevant issue affected the use of local inhabitants as workers. Given that at the end of December 2017 civil works were finishing, there was a natural reduction of local labour. The issue of the decrease and progressive exit of local workers from the contractor companies was discussed in meetings with the adjacent communities, in order to communicate the process of disengagement from the workers.

Regarding the social activities described in the ESMPs for both projects, the main measures were executed during construction. Among others, local employment was incentivised; foreign workers were induced to maintain a good relationship with the local population; education on renewable energy was promoted; and some circular economy activities were supported.

### **EIB Carbon Footprint Exercise**

Both projects have delivered less generation than the estimates at appraisal for a normal meteorological year (P50). However, the variation is deemed to be due to the normal interannual weather variability, and not due to a defect in the forecast contained in the energy yield assessment.

Results established at appraisal are therefore still valid, i.e. both plants combined are expected to generate ca. 1011 GWh/year, with no absolute CO<sub>2</sub> emissions. In accordance with the Bank's current Carbon Footprint methodology, it is calculated that based on the avoidance of electricity generation from a combination of existing and new power plants in Peru (50% operating margin and 50% build margin), the total relative effect of the project is a net reduction in CO<sub>2</sub> equivalent emissions by 548 kt CO<sub>2</sub>-e/year. For the annual accounting purposes of the EIB Carbon Footprint, the project emissions will be prorated according to the EIB lending amount signed in that year, as a proportion of the project cost.

### **Summary opinion of Environmental and Social aspects at completion:**

EIB is of the opinion, based on reports received from the promoter, that the Project has been implemented in line with EIB Environmental and Social Standards, applicable at the time of appraisal.

As per the conditions established in the finance contract, the promoter provided the Bank with all documents requested:

- Final Environmental and Social Management Plans for the wind farm and solar PV plant (including their interconnections to the grid. For Wayra wind farm, they included a flora and fauna monitoring plan and a detailed Birds Monitoring Plan) for the operational phase.
- Stakeholders' Engagement Plans for the wind farm and solar PV plant.
- Water management scheme for the Rubi solar PV plant.
- Land Acquisition and Resettlement Action Plan (LARAP) for the 22-km transmission line that will connect the Rubi solar PV plant to the grid.