

Gallito Ciego Hydropower Plant

THE PLANT AND OPERATION:

Gallito Ciego is located 600 km to the north of the city of Lima, in the village of Tembladera, district of Yonan. The plant is located downstream of the Gallito Ciego dam, which is mainly used for irrigation purposes for the agricultural area in the valley that depends on this water. The company does not own the dam, which is administered by the competent authorities.

FACTS

The Gallito Ciego hydropower plant started operations in 1997, supplying energy exclusively to the company Cementos Pacasmayo. Subsequently, it was established as Cementos Norte Pacasmayo Energía S.A., property of the Compañía Minera Hoschild, and in 2000 all of their power generation assets were sold to the Vattenfall group, with the commercial operation in the National Interconnected System. Subsequently, SN Power purchased these assets in 2003.

DEPARTMENT:	Cajamarca
PROVINCE:	Contumazá
DISTRICT:	Yonan - Tembladera
WATER SOURCE:	Jequetepeque river watershed
INSTALLED CAPACITY:	34.00 MW
EFFECTIVE CAPACITY:	38.14 MW
TYPE:	Hydropower
ANNUAL OUTPUT:	150 GWh
GROSS HEAD:	83 m
DESIGN FLOW:	42 m ³ /s
EQUIPMENT:	Vertical-shaft Francis turbines, Powerhouse, 2 generation units
CONSTRUCTION:	Completed in 1997
COMMERCIAL START-UP:	Since November 1997

THE PLANT

The Gallito Ciego Hydropower Plant is located 600 km north of Lima in Peru's La Libertad region. It was purchased by SN Power in November 2003 as part of the Cahua/Energia Pacasmayo acquisition from the US company, NRG Energy. The plant is located downstream of the Gallito Ciego dam, which is primarily used for irrigation purposes. The dam is not part of the Gallito Ciego assets and is operated by the water authorities.

OPERATION

Since acquiring the plant, SN Power has initiated a number of activities to optimise commercial and technical operations, such as changing the valves, refurbishment of compensation reservoir gates, and reorganisation of the operation and maintenance schedule.

SUSTAINABLE DEVELOPMENT

Educational support programs for children from the local area, such as the development of

School Libraries, are conducted in the communities within the influence area of the Gallito Ciego hydropower plant. Additionally, weaving workshops are implemented so that local villagers can develop productive skills.

