

ARCATA HYDROPOWER PLANTS

The 5.4 MW hydro facilities of Arcata provide renewable energy to the grid in Peru.

THE PLANTS

The hydro facilities of Arcata are located in the Arequipa region about 230 km from the town of Arequipa in southern Peru. They consist of four plants at about 4.000 metres above sea level that provide renewable energy to the main grid. Arcata was purchased by SN Power in November 2003 as part of the Cahua/Energia Pacasmayo acquisition from the US company, NRG Energy. The four plants are Misapuquio (3.8 MW), San Antonio (0.6 MW), San Ignacio (0.6 MW) and Huayllacho (0.3 MW).

OPERATIONS

Since acquiring the plants, SN Power has initiated a number of activities to optimise commercial and technical operations, such as reparation of Huarahuarco Dam, refurbishment and improvement of existing facilities, and reorganisation of resources.

SUSTAINABLE DEVELOPMENT

Arcata employs a total of 18 staff, including three from local communities. Local non-skilled manpower is hired as necessary to perform maintenance and civil works under the company's site management supervision.

FACTS

Location	Arequipa region, Peru
Installed capacity	5.4 MW
Type	Run-of-river
Average annual output	37 GWh
Gross head	Misapuquio 224 m, San Antonio 27.5 m, San ignacio 25 m, Huayllacho 262 m
Design flow	Misapuquio 2.00 m ³ /s, San Antonio 2.92 m ³ /s, San Ignacio 2.50 m ³ /s, Huayllacho 0.15 m ³ /s
Equipment	Four Francis, three Pelton turbines Surface powerhouse
Construction completed	San Ignacio 1935, Huayllacho 1937, San Antonio 1957, Misapuquio 1983
Commercial operation	November 1997
Power purchase agreement	Cahua contract portfolio
SN Power ownership	99.9 %

SN Power

SN Power is a growing international renewable energy company with projects and operations in Asia, Africa and Latin America. We invest on commercial terms and are committed to social and environmental sustainability throughout our business.

