

SOLAR'S MOST TRUSTED



PUNJAB CANAL TOP SOLAR PLANTS INDIA

SUSPENDED CANAL TOP INSTALLATION

- All electricity goes to the Punjab State Power Corporation Limited (PSPCL)
- First of its kind canal solar project in Punjab
- Unique Suspension Design, first in Asia

5.25

MW
SYSTEM SIZE

8,414,000

kWh
ANNUAL CAPACITY

6,310

TONS CO₂
SAVED ANNUALLY



COMMERCIAL
INSTALLATION



After three months of operation, the REC-powered unique canal-top solar plants along Sidwhan and Ghaggar canals in India's Punjab state are already overperforming, with a combined average performance ratio of more than 80%.

"For a challenging project like this, we were most confident in REC."

MR. R. VASUDEVA PRASAD, MANAGING DIRECTOR, PES GROUP



PUNJAB IS ONE OF THE MOST FERTILE states in India, and has traditionally been a major source of wheat. Due to extensive use of land in the state for agriculture purposes, it is not a surprise that land is a premium here. The Punjab government, with its focus and commitment to solar, found a novel solution to this challenge by promoting "Canal Top Solar" in the state.

The Punjab Canal Top Solar Plants add pollution-free solar power generation capacity using the vacant space over the canals and with no land cost involved. An equivalent ground mount project in Punjab would have taken 25 acres of land away from agriculture. In addition, the projects are expected to save millions of liters of water from evaporation, which would irrigate a large amount of land.

Developed and owned by SAM Solar Private Limited (a PES Group company), the canal-top plants are said to be the first of their kind



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs more than 2,000 employees worldwide, producing 1.4 GW solar panels annually.

in Asia. The EPC contractor for the projects was PES Engineers Private Limited, who installed 16,680 REC Peak Energy 72 solar panels on two spreads, including over 1.25 km from Rajgarh to Ajnod village downstream on Sidwhan canal..

"Considering the unique installation which consisted of suspended mounting structure, plus the high humidity at the sites, a great emphasis was laid on the reliability and durability of the solar panels. For a challenging project like this, we were most confident in REC," says Mr. R. Vasudeva Prasad, Managing Director of PES Group.

"The unique structural engineering combined with trustable quality of REC panels ensure that the project will continue to generate electricity and offer a completely sustainable solution to the local population for years to come," added Mr. Yogesh Sehgal, Director, SAM Solar Private Limited.

PROJECT OVERVIEW

PUNJAB CANAL TOP SOLAR PLANTS

SUSPENDED CANAL TOP INSTALLATION

Owner:

SAM Solar Private Limited

Location:

Sangrur, India & Ludhiana, India

Type of Installation:

Canal top, grid connected

System Size:

5.25 MW (2 x 2.62MW)

Solar Panel Type:

REC 315 PE 72

Number of Solar Panels Installed:

16,680

Annual Capacity:

8,414,000 kWh

Completion Date:

March 2017

EPC:

PES Engineers Pvt. Ltd.



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