



NORTH AMERICAN DEVELOPMENT BANK FACT SHEET

PITIQUITO, SONORA

- Project:** Puerto Libertad Solar Park.
- Sponsor:** A joint venture formed by Solar Tuto Energy, S.A.P.I. de C.V. (BioFields) and AE Mex Global, S. de R.L. de C.V. (Acciona).
- Location:** The project is in the community of Puerto Libertad in the municipality of Pitiquito, Sonora, approximately 119 miles northwest of the urban area of Hermosillo and 196 km (121.8 miles) southwest of the U.S.-Mexico border.
- Background:** In 2015, Mexico enacted the Energy Transition Law to regulate the sustainable use of energy and obligations regarding clean energy and the reduction of pollution from the power industry, while preserving the competitiveness of the productive sectors. The law specifies, among other provisions, that the Mexican Ministry of Energy (SENER), in coordination with the Mexican Electricity Commission (CFE) and the Mexican Energy Regulatory Commission (CRE), must increase the use of clean technologies in power generation to at least 35% by 2024.
- According to SENER, in 2015, Sonora had 2,710 megawatts (MW) of installed capacity and 13,569 gigawatt-hours (GWh) in energy generation. The main source of electricity generated is combined-cycle plants with 79.3%, followed by thermoelectric plants with 18.9%. Based on the solar resource assessments developed by SENER, Sonora has a high potential for solar energy development, with solar resources estimated at 2,600 gigawatt-hours (GWh)/year. The Sonora State Development Plan also promotes the use of renewable energy sources to help create new jobs, foster innovation and reduce the release of harmful emissions into the environment.
- On May 13, 2016, the Mexican National Center of Energy Control (CENACE) published the guidelines for the auction of long-term renewable energy contracts. With CFE as the off-taker, contracts for the purchase of capacity and renewable energy will be for 15 years and contracts for clean energy certificates will be for 20 years. In September 2016, CENACE selected 23 bidders to build 2,871 MW of new renewable capacity worth US\$4.0 billion. Component 1 of the Puerto Libertad project was selected in the auction.
- Description:** The project consists of the design, construction and operation of a 317.5-MW solar park on approximately 1,194 hectares (2,905 acres) of rural land, which is divided into two components: Component 1 with a generation capacity of 180 megawatts of alternating current (MWac) and Component 2 with a capacity of 137.5 MWac.

The two project components include the installation of approximately 1,200,000 solar modules mounted on single-axis tracker arrays and the construction of a collector substation and a switchyard. The energy generated by the project will be collected through underground lines and delivered to an existing CFE transmission line known as Puerto Libertad-Santa Ana, located 0.2 km (656 feet) from the project site

The electricity, Clean Energy Certificates (CELS) and generation capacity produced by Component 1 will be purchased by CFE pursuant to three long-term power purchase agreements. The electricity, CELs and generation capacity produced by Component 2 will be purchased by a private off-taker and CFE Calificados S.A. de C.V., pursuant to two long-term power purchases, as well as sold on the spot market.

Certification Date: March 8, 2018.

NADB Funding: Loan Program:
Market-rate loan: Up to US\$75.0 million

A loan agreement for US\$65.99 million was signed on July 12, 2018 with the two projects companies created to carry out the project, AT Solar V, S. de R.L. de C.V., (Component 1) and Tuto Energy II, S.A.P.I. de C.V. (Component 2),

Benefits: The project is anticipated to produce approximately 961.55 GWh of zero-carbon electricity during the first year of operation, equivalent to the annual energy consumption of approximately 132,554 households. Consequently, demand for traditional fossil-fuel based energy generation will be reduced, resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 440,390 metric tons/year of carbon dioxide equivalent (CO₂e), as well as other pollutants.

The project will also promote the social and economic development of the municipality of Pitiquito by generating approximately 500 temporary jobs during construction, as well as close to 50 permanent jobs during operation.

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