



NORTH AMERICAN DEVELOPMENT BANK FACT SHEET

GALEANA, CHIHUAHUA

- Project:** Santa Maria Solar Park
- Sponsor:** Zuma Energía S.A. de C.V.
- Location:** The Project is located in the municipality of Galeana, Chihuahua, about 30 miles southeast of Nuevo Casas Grandes, Chihuahua and approximately 138 km (86 miles) south of the U.S.-Mexico border. The project site is in a rural area that primarily consists of low grasses, mesquite and bushes and is surrounded by land for livestock ranching.
- Background:** Since 1994, Mexico has undertaken efforts to increase the use of non-fossil fuel technologies in power generation. In 2014, the legal framework that governs Mexico's National Power System (SEN) underwent a major reform aimed at facilitating investments to consolidate diversification efforts, improve infrastructure and meet the growing demand for electricity. 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, Chihuahua had 2,785 MW of installed generation capacity and supplied 15,691 GWh of electricity in 2015. The main source of electricity generated in the state of Chihuahua for public service is combined-cycle plants (91%), followed by thermoelectric plants (7.8%).
- The electricity produced by the solar park will be purchased by CFE, through its subsidiary, *CFE Suministrador de Servicios Básicos*. In accordance with the new Power Industry Law, the project was selected on September 28, 2016, through Long-term Energy Auction No. SLP-1/2016 carried out by the National Center of Energy Control (CENACE).
- Description:** The proposed Project consists of designing, constructing and operating a solar park with an installed generation capacity of 148 megawatts of alternating current (MWac), located on approximately 964 acres of rural land.
- The Project components include the installation of approximately 550,740 solar modules mounted on single-axis tracker arrays and construction of one substation. The energy generated by the modules will be collected

through underground lines and delivered to an existing CFE transmission line that cuts through the Project site using a 230-kV switchyard.

BECC Certification: June 22, 2017

NADB Funding: Loan Program:
Market-rate loan: Up to US\$55.50 million

A loan agreement for US\$30.0 million was contracted on September 18, 2017 with the project company, Fistera Energy Santa María 1, S.A.P.I. de C.V.

Benefits: The Project is expected to produce an average of 394 gigawatt-hours (GWh) a year of zero-carbon electricity during 20 years of operation, equivalent to the annual energy consumption of approximately 54,261 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 161,881 metric tons/year of carbon dioxide (CO₂), 0.79 metric tons/year of sulfur dioxide (SO₂) and 565 metric tons/year of nitrogen oxides, as well as other pollutants.

For more information, contact Jesse Hereford, Director of Public Affairs at,
North American Development Bank, 210-231-8000