



## NORTH AMERICAN DEVELOPMENT BANK FACT SHEET

### DIXIELAND, CALIFORNIA

- Project:** SEPV Imperial Solar Project
- Sponsor:** Solar Electric Solutions, LLC (SES).
- Location:** The Project is located 10.3 miles from the U.S.-Mexico border in Dixieland, California, in an unincorporated area of Imperial County.
- Background:** To achieve the goal of 33% generation from renewable sources by 2020 established in the California's Renewables Portfolio Standard (RPS), all electricity retailers in the state, including publicly-owned utilities, investor-owned utilities, electricity service providers and community aggregators, needed to adopt the goals of 20% of retail sales from renewables by the end of 2013, 25% by the end of 2016 and 33% by the end of 2020. State Senate Bill 350, signed on October 7, 2015, requires that the target of electricity generation from renewable resources be increased from 33% by 2020 to 50% by 2030.
- In 2014, 22.5% of the electricity generated in California came from renewable sources, including geothermal, biomass, small hydroelectric, wind and solar.
- Since 2009, the Imperial Irrigation District (IID), which is the sixth largest public power utility in the state and manages more than 1,100 MW of power plant capacity, has taken several steps to increase its renewable energy mix, including the approval of power purchase agreements for biomass and solar energy. IID is purchasing the electricity produced by each solar facility pursuant to two 20-year power purchase agreements.
- Description:** The scope of the project is to design, build, and operate two solar facilities: SEPV Dixieland West with a generation capacity of 3.0 megawatts of alternating current ( $MW_{AC}$ ) and SEPV Dixieland East with a capacity of 2.0  $MW_{AC}$ . The main components of the project, constructed on 53-acres of land, consist of:
- Installation of 325-watt crystalline photovoltaic modules mounted on single-axis tracking arrays. The parallel arrays are separated and spaced apart to minimize inter-row shading by the sun.
  - Inverters with a 1,872 kW of nominal AC output and an operation efficiency of 98.6%.
  - A monitoring and control system (SCADA) is being used to monitor remotely, operate, track and document the performance of the PV system relative to its predicted output.

SEPV Dixieland West is interconnected to the IID distribution system at an existing IID 12 kV distribution line that runs north-south along the eastern edge of the SEPV Dixieland West site. SEPV Dixieland East is interconnected to the IID distribution system at an existing IID 12 kV distribution line that runs along the western edge of the SEPV Dixieland East site.

**Certification Date:** March 7, 2016.

**NADB Funding:** Loan Program:  
Market-rate loan: Up to US\$11.0 million

A loan agreement for the full amount was contracted on March 21, 2017.

**Benefits:** The Project is anticipated to produce approximately 15.1 gigawatt-hours (GWh) of zero-carbon electricity in the first year of operation, equivalent to the annual energy consumption of approximately 1,882 households. In addition, clean technologies such as solar energy require no water for electricity production and will also support natural resource conservation by reducing the demand on fossil fuels for energy production, with the associated improvements to air quality.

The plant is expected to displace more than 4,319 metric tons/year of carbon dioxide (CO<sub>2</sub>) and approximately 7 metric tons/year of nitrogen oxides (NO<sub>x</sub>).

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