



## NORTH AMERICAN DEVELOPMENT BANK FACT SHEET

### GENERAL CEPEDA, COAHUILA

- Project:** EDPR Wind Energy Project
- Sponsor:** EDP Renovaveis, S.A. (EDPR).
- Location:** The project site is located in the municipality of General Cepeda, approximately 29 miles northwest of Saltillo, Coahuila.
- Background:** The Mexican power grid is divided into nine zones, seven of which are interconnected and form the National Interconnected System (SIN). The Project will be located in the Northeast Zone, which includes the states of Tamaulipas, Nuevo León, a large part of Coahuila and some municipalities from San Luis Potosí. According to the Mexican Ministry of Energy (SENER), the generation capacity of Coahuila was 2,989.5 mega-watts (MW) in 2013.
- According to the Power Sector Capital Improvement Program for 2014-2028, the energy produced in the Northeast Zone is mainly consumed in the Monterrey metropolitan area, which recorded maximum demand of 4,121 MW in August 2013. The Saltillo area has the second highest power demand in the zone and is expected to experience moderate growth in the near term. To better manage the energy needs of Monterrey and Saltillo, the Northeast power grid is interconnected with the coal-fired plants in Piedras Negras and the combined-cycle plants in Reynosa, Matamoros and San Luis Potosi.
- As a result of this Project, renewable energy will account for almost 4% of gross power production in the state of Coahuila, while the percentage of coal-fired power generation will drop from 90.12% to 86.75%.
- Description:** The project comprises the design, construction and operation of a 199.5 MW wind farm that will be developed in an area of approximately 11,746 acres. The project includes the following components:
- Construction of up to 95 wind turbines, with a nominal power of 2.1 MW each. The steel towers will have a hub height of 80 meters (262.5 ft.).
  - Wind turbine transformers will step up the voltage of generated power to 34.5 kV for transmission to the collector substation.
  - Construction of two substations to collect and distribute the 34.5 kV energy supply. Energy will be delivered primarily through underground lines to the collector substation, where it will be

stepped up to 230 kV and delivered to the interconnection substation through an overhead transmission line.

- Installation of a control and data system (SCADA) to control and monitor the operation of each turbine, as well as the Project as a whole from a central computer or a remote PC.
- Installation of a permanent tower at the project site for wind monitoring and evaluation of potential energy generation.

The energy generated will be purchased by a Mexican mining company, *Industrias Peñoles, S.A.B. de C.V.*, pursuant to a long-term power purchase agreement (PPA).

**Certification Date:** November 5, 2015

**NADB Funding:** Loan Program:  
Market-rate loan: US\$89.79 million

The loan was signed on May 26, 2016 with the project company, Eólica de Coahuila, S.A. de C.V.

**Benefits:** The Project provides an opportunity to displace greenhouse gases (GHG) and other pollutants produced by traditional hydrocarbon-based energy generation, while providing local residents with a safe and reliable energy alternative. Specifically, this project is expected to displace approximately 381,424 metric tons/year of carbon dioxide equivalent (CO<sub>2</sub>e).

The Project is anticipated to produce approximately 763 GWh of zero-carbon electricity per year, equivalent to the annual energy consumption of 101,093 households.

For more information, contact the Public Affairs Department,  
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