Sureste I - Mexico
ECO 110 - wind farm

Country: Mexico
Project: Sureste I – Stage II
Customer: Enel Green Power Latin America
Scope: Supply, installation and commissioning of ECO 110
Electrical output: 102 MW
Commercial operation: 2014

The Sureste I, Stage II wind farm is located in the Tehuantepec Isthmus, state of Oaxaca, in Mexico. The complex will be composed of 34 ECO 110 onshore wind turbines with a capacity of 3 MW each for a total capacity of 102 MW.

This project marks Alstom’s first contract in Mexico. The agreement includes the supply and commissioning of the onshore wind turbines at the new Sureste I-Stage II power generation plants.

The wind farm, which will be fully operational at the end of 2014, will generate more than 350 GW/h a year, equivalent to the total amount of energy used by more than 60,000 people, as well as reducing CO2 emissions by 238 metric tons a year.

Harnessing Mexican’s Power Potential with Alstom High Yield Wind Turbine

Mexico, which currently has installed wind power capacity of 1.4 GW, has established a target of 12 GW in wind power capacity by the year 2020. In line with the growth target set out, Enel Green Power was awarded the right to build Sureste I-Phase II.

Customer Profile

Enel Green Power Latin America is the Enel Group Company for the development and management of electricity generation from renewable resources in Latin America, with a presence in Mexico, Guatemala, El Salvador, Nicaragua, Costa Rica, Panama, Chile and Brazil.

For a Higher Energy Yield

The ECO 110 is part of Alstom’s proven ECO 100 turbine platform. More than 130 turbines of this type have already been installed in Europe including Spain, Great Britain, Turkey and Finland. All Alstom wind turbines are based upon the unique and proven Alstom Pure Torque® rotor support concept that protects the drive train from deflection loads, ensuring higher reliability and lower maintenance costs.
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Wind turbine type</th>
<th>ECO 110</th>
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</thead>
<tbody>
<tr>
<td>Rated power (MW)</td>
<td>3</td>
</tr>
<tr>
<td>Rotor diameter (m)</td>
<td>110</td>
</tr>
<tr>
<td>Number of blades</td>
<td>3</td>
</tr>
<tr>
<td>Tower height (m)</td>
<td>75</td>
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<tr>
<td>Height with blade at highest point (m)</td>
<td>130</td>
</tr>
</tbody>
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ALSTOM PURE TORQUE® TECHNOLOGY

The Sureste I-Phase II will feature ECO 110 onshore wind turbine which incorporate the Alstom Pure Torque technology, a rotor support concept that protects the drive train and other components from deflection loads. This ensures higher reliability and performance while reducing maintenance costs.

HIGHER TOWER RANGE

Because wind speed increases with height, tallest towers allow turbines to capture more energy for an increased capacity factor.

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