6 February 2013

## A project worth over €1 billion

# Alstom and Renova Energia sign a preliminary agreement in Brazil for the supply of wind turbines

Alstom Renewable Power announced on 6 February 2013 the signature of a memorandum of understanding with Renova Energia, leader in wind power generation in Brazil, to supply, operate and maintain in Brazil around 440 onshore wind turbines for a total amount exceeding €1 billion. From 2.7 MW to 3 MW each, these turbines will represent a minimum of 1,200 MW new wind power generation capacity. They will equip Renova's wind farms in the state of Bahia and will be delivered from 2015 onwards, over an estimated period of three to four years.

Alstom's ECO 100 3 MW onshore wind turbine range was selected as one of the most proven machines on the market, with turbines running since 2008. It offers high yield and leading efficiency across all wind classes, with its rotor diameter from 100-metres to 122-metres. This allows developers to select the best rotor for every position. The combination of two or even three models of the range (ECO 100, 110 or 122) within the same wind site optimises the capacity factor of a project while reducing the balance-of-plant cost.

Renova Energia carried out a thorough process for the selection of the manufacturer, using "clean sheet" cost assessment model and comparative analysis. "Alstom presented the best combination of price and technical performance, allowing for greater competitiveness in our projects", says Mathias Becker, CEO of Renova Energia. "This will allow for increased efficiency of our plants, as we will have a more adequate technology to our winds, and reduced investments, which are key for us to maintain our leadership position in the increasingly competitive wind market", he adds.

The partnership between both companies will start with the selection of the most appropriate technology in Alstom's portfolio for each Renova's plant. This phase will last approximately two years. Due to the importance of the project, a governance committee will be created, composed of members of the top management of both companies, who will follow up on the execution of the agreement.

"The partnership with Renova Energia has exclusive aspects, and we want to closely follow up on the progress. As the most important agreement for Alstom in the wind onshore



industry worldwide, this preliminary agreement confirms our strong global ambitions in the wind industry", says Jérôme Pécresse, President of Alstom Renewable Power.

The wind turbines will be manufactured at Alstom's unit in Camaçari, state of Bahia. Opened in November 2011, the plant has a manufacturing capacity of 300 MW a year, with one work shift. The agreement with Renova Energia confirms Alstom's decision to work with two shifts from the first half of 2013, increasing the manufacturing capacity to 600 MW a year. Alstom will work towards the establishment of a wind cluster in Bahia in partnership with other companies, for the production of the main components of the turbines.

#### **About Alstom**

Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs 92,000 people in around 100 countries. It had sales of  $\epsilon$ 20 billion and booked close to  $\epsilon$ 22 billion in orders in 2011/12.

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