

Energy Sector Energy Service Division

Orlando, Florida, USA, April 27, 2012

Siemens to provide long-term service to first hybrid solar power plant in Algeria

Siemens Energy has been awarded a contract to provide long-term maintenance services at Algeria's first solar-combined cycle hybrid power plant. The order was placed by Abengoa for its 150 megawatt (MW) solar hybrid plant operating at the Hassi R'Mel natural gas field in northern Algeria. The contract includes preventative and corrective maintenance for two SGT-800 gas turbines, which Siemens installed in April 2011. The service contract for the gas turbines will help to ensure long-term reliability and predictable maintenance costs for Abengoa at Hassi R'Mel, one of the world's most innovative power stations.

"As these unique and advanced hybrid plant technologies continue to emerge, maintaining their efficiency with cost-effective service solutions is vital," said Karim Amin, head of Siemens Energy Service, Middle East region. "Algeria has made a strong commitment to developing its abundant renewable energy sources, along with its rich natural gas resources, and we look forward to providing reliable service to Abengoa for this very important project."

Integrated Solar Combined Cycle (ISCC) technology combines the environmental benefits of solar energy with the operational advantages of a 'conventional' combined cycle plant. The heat generated by the solar field decreases the already low emissions of a combined cycle power plant and increases the efficiency even more. One of the world's first ISCC plants when it began operation in May 2011, the Hassi R'Mel solar-combined cycle hybrid power plant generates electricity through both the 25-MW parabolic trough solar collectors field and a 130-MW 2x1 CCPP (Combined Cycle Power Plant). Located at Algeria's largest natural gas field, the plant consists of 224 parabolic trough collectors that cover an area of 180,000 square meters. The gas turbine and steam cycle are fired by natural gas, with the steam turbine receiving additional solar-generated steam during the day.

The **Siemens Energy Sector** is the world's leading supplier of a complete spectrum of products, services and solutions for power generation in thermal power plants and using renewables, power transmission in grids and for the extraction,

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processing and transport of oil and gas. In fiscal 2011 (ended September 30), the Energy Sector had revenues of EUR24.9 billion and received new orders totaling approximately EUR31.8 billion and posted a profit of EUR3.9 billion. On October 1, 2011, the Energy Sector had a work force of more than 82,000. Further information is available at: www.siemens.com/energy.

Abengoa (MCE: ABG) is an international company that applies innovative technology solutions for sustainable development in the energy and environment sectors, generating electricity from the sun, producing biofuels, desalinating sea water and recycling industrial waste. (www.abengoa.com)