

The customer newsletter of
ABB Power Generation

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in control



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Power and productivity
for a better world™





Cordemais power plant. Image courtesy of Clément Bucco-Lechat

EDF selects Symphony Plus for coal-fired plants

EDF, one of the world's leading electric utilities, has selected ABB to supply Symphony Plus total plant automation systems and long-term service support for three 600 MW units at the Le Havre and Cordemais coal-fired power plants in France.

EDF operates 23 fossil-fired power plants in its home market, France. The plants produce around 16.9 terrawatt-hours of electricity annually. Although most of EDF's fleet in France are nuclear power plants, coal remains part of the company's long-term strategy and energy mix.

Recently, EDF initiated an extensive program to modernize its Le Havre 4 and Cordemais 4 and 5 coal-fired units in order to extend their operating life by 20 years to 2035. These are the largest coal-fired units in the EDF fleet and were built to an identical design in the early 1980s. Each has a generating capacity of 600 MW.

Comprehensive and complex

The modernization program is comprehensive and complex in scope, involving the revamping of electromechanical and process equipment, as well as the replacement of obsolete distributed control systems with state-of-the-art Symphony™ Plus total plant automation systems.

The Symphony Plus solution for each unit consists of a distributed control system, turbine control and protection, S+ Operations HMI, and a process optimization package. ABB is also supplying a Symphony Plus simulator for operator training and process simulation.

ABB is responsible for design, engineering, installation, commissioning and training, and will install the new Symphony Plus systems during scheduled annual shutdowns over a four-year period ending in 2016.

One of the highlights of the EDF-ABB collaboration is the 21-year maintenance contract that the two companies have signed, in which ABB will provide corrective, preventive, adaptive and remote maintenance for all three units.

ABB competed for the project with all the leading global plant automation vendors and was selected for providing the best technical and commercial solution for EDF's requirements.



Symphony Plus total plant automation. The power of a well-orchestrated performance.

Symphony™ Plus is the new generation of ABB's total plant automation for the power and water industries. Designed to maximize plant efficiency and reliability through automation, integration and optimization of the entire plant, Symphony Plus offers a simple, scalable, seamless and secure solution. Tune to Symphony Plus and experience the power of a well-orchestrated performance. www.abb.com/powergeneration