Hawaiian Electric selects Symphony Plus for modernization of the boiler control systems for Unit 8 and 9 of their power plant located at Honolulu, the capital and most populous city of the US States of Hawaii.

For more than 120 years, Hawaiian Electric Company has provided the energy that has fueled the development of the Hawaiian Islands from a kingdom to a modern US state. Hawaiian Electric Company, and its subsidiaries, Maui Electric Company, and Hawaii Electric Light Company, serve 95 percent of the state’s 1.2 million residents on the islands of O’ahu, Maui, Hawai’i Island, Lana’i and Moloka’i.

Through a close partnership with Hawaiian Electric, ABB participated in the modernization of the power generation and power delivery infrastructure for the islands.

Hawaiian Electric selected ABB’s Symphony Plus distributed control system to control their boiler for units 8 and 9 at the Honolulu Power Plant.

Honolulu power plant has two 58 megawatts oil-fired units, which became operational in 1954 and 1957. Between 1980 and 2010 HECO executed various projects that included the installation of ABB Network 90 and INFI 90 control systems.

### Project profile

**Symphony Plus upgrade for Honolulu power plant in Hawaii**

### Project name
Honolulu Power Plant, Units 8 and 9

### Location
Honolulu, Hawaii, USA

### Customer
Hawaiian Electric

### Completion
Unit 8: January 2013
Unit 9: May 2012

### ABB solution
- Evolving the existing Bailey/Symphony systems to state of the art Symphony Plus control system
- Supply of complete system design, hardware and software, system engineering services, project management, installation and commissioning and training
- Motor control centers

### System benefits
- Improved overall plant reliability through hardware and software upgradation in accordance to ABB’s unique and long term life cycle policy of ‘Evolution without obsolescence’
- Extend the life and return-on-investment of Bailey/Symphony system
- Training provided helps customer to close the competency gap
To upgrade aging equipment, ABB was awarded contracts to evolve its installed base of Bailey/Symphony systems to a state-of-the-art Symphony Plus control system with which Hawaiian Electric can efficiently and reliably operate the two units.

The solution is based on the Symphony Plus platform and includes 14 S+ Operations HMI stations, a Composer Engineering station, Harmony controllers and S800 I/O, as well as motor control centers. ABB is providing the hardware, software, system engineering services, project management, installation engineering, factory acceptance testing, training, field service and final tuning of the units. A construction work package consisting of cable schedule, DCS termination drawings, instrument locations, schematic and wiring diagrams is also included.

Honolulu 8 was completed in January 2013 and Honolulu 9 was completed in May 2012. Hawaiian Electric also utilizes ABB Symphony control systems at its Kahe and Waiau power plants.

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