

## Prairie State Energy Campus Washington County, Illinois

### Plant Owner

Prairie State Generating Company (PSGC)

### Plant Name

Prairie State Energy Campus

### EPC Contractor

Bechtel Power Corporation

### Location

Washington County, Illinois

### B&W PGG Scope

- Supercritical, spiral wound coal-fired boilers
- Construction advisory services
- Startup and commissioning advisory services

### Boiler Specifications

- Boiler type: Pulverized coal-fired SWUP™ supercritical boiler
- Design fuel: Illinois bituminous coal
- Capacity: 2 X 800 MW (net)
- Main steam flow: 5,910,150 lb/h (745 kg/s)
- Superheater outlet pressure: 3780 psig (26 MPa)
- SH/RH outlet temperature: 1055/1055 F (568/568 C)

### Environmental Equipment

- High velocity DRB-4Z® low NO<sub>x</sub> burners
- Selective catalytic reduction (SCR) NO<sub>x</sub> removal system

### Other Equipment Supplied by B&W PGG

- B&W Roll Wheel® pulverizers, Series 98, with DSVS® rotating classifiers and Auto-Spring™ loading system
- Sootblower boiler cleaning system by Diamond Power International, Inc., a B&W PGG subsidiary
- Powerclean™ intelligent sootblowing system

### Contract Order

2007

### Planned Commercial Operation

Unit 1, 4th quarter, 2011

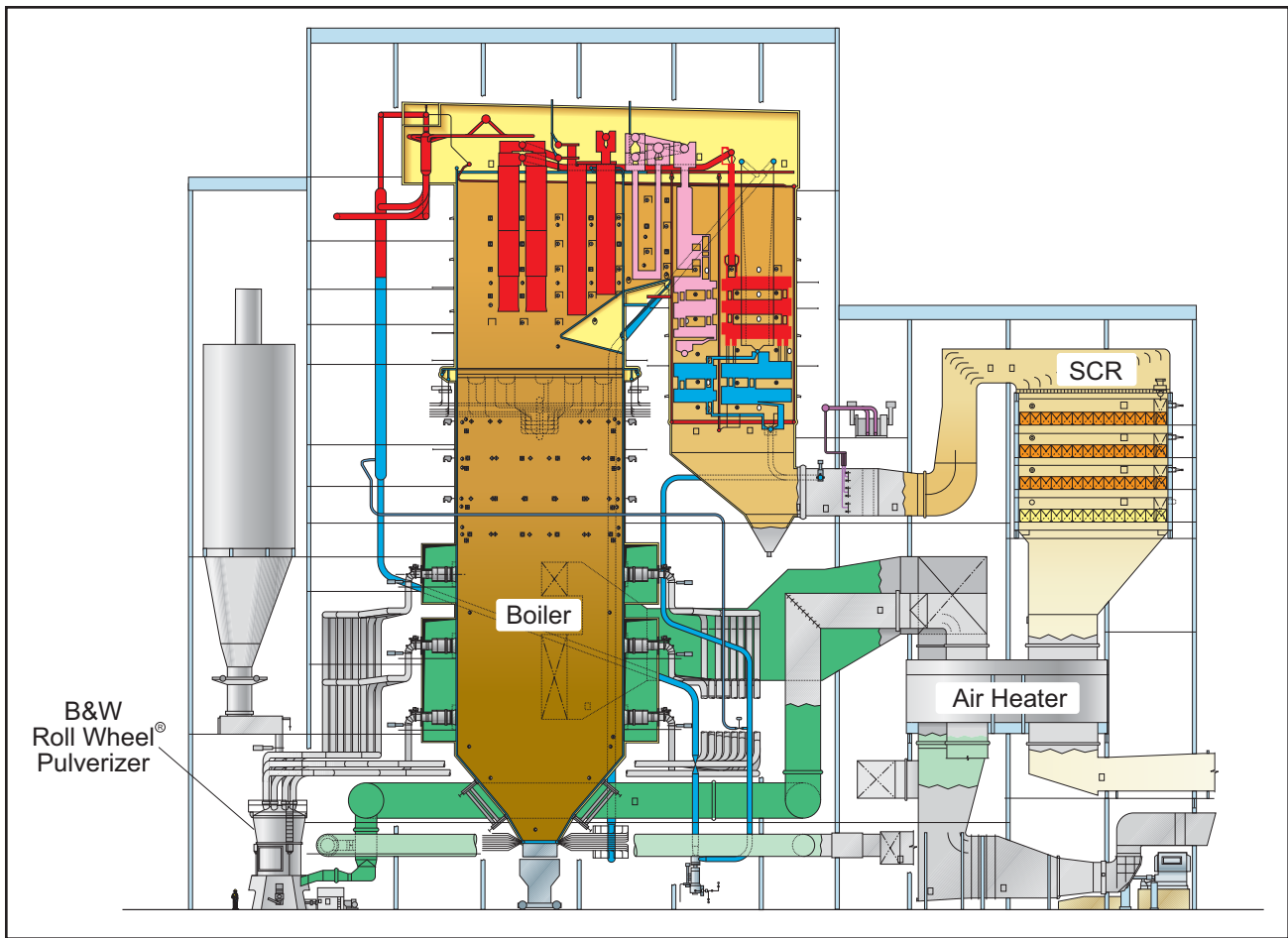
Unit 2, 3rd quarter, 2012

### Project Facts

- The boilers were originally designed for another project and were partially fabricated when that project was canceled. The design of these boilers was then modified to adapt to the requirements of the Prairie State Energy Campus project, including a change in fuels from Powder River Basin sub-bituminous coal to Illinois bituminous coal.
- The boilers burn coal from a mine adjacent to the power plant.
- Electricity produced is dedicated to supply eight Midwestern-based public power utilities serving customers across nine states.



(Continued on reverse side)



Sectional sideview of Prairie State Units 1 and 2.

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