

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 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_x burners
- Selective catalytic reduction (SCR) NO_x removal system

Other Equipment Supplied by B&W

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

Contract Order

2007

Commercial Operation

Unit 1, 4th quarter, 2011

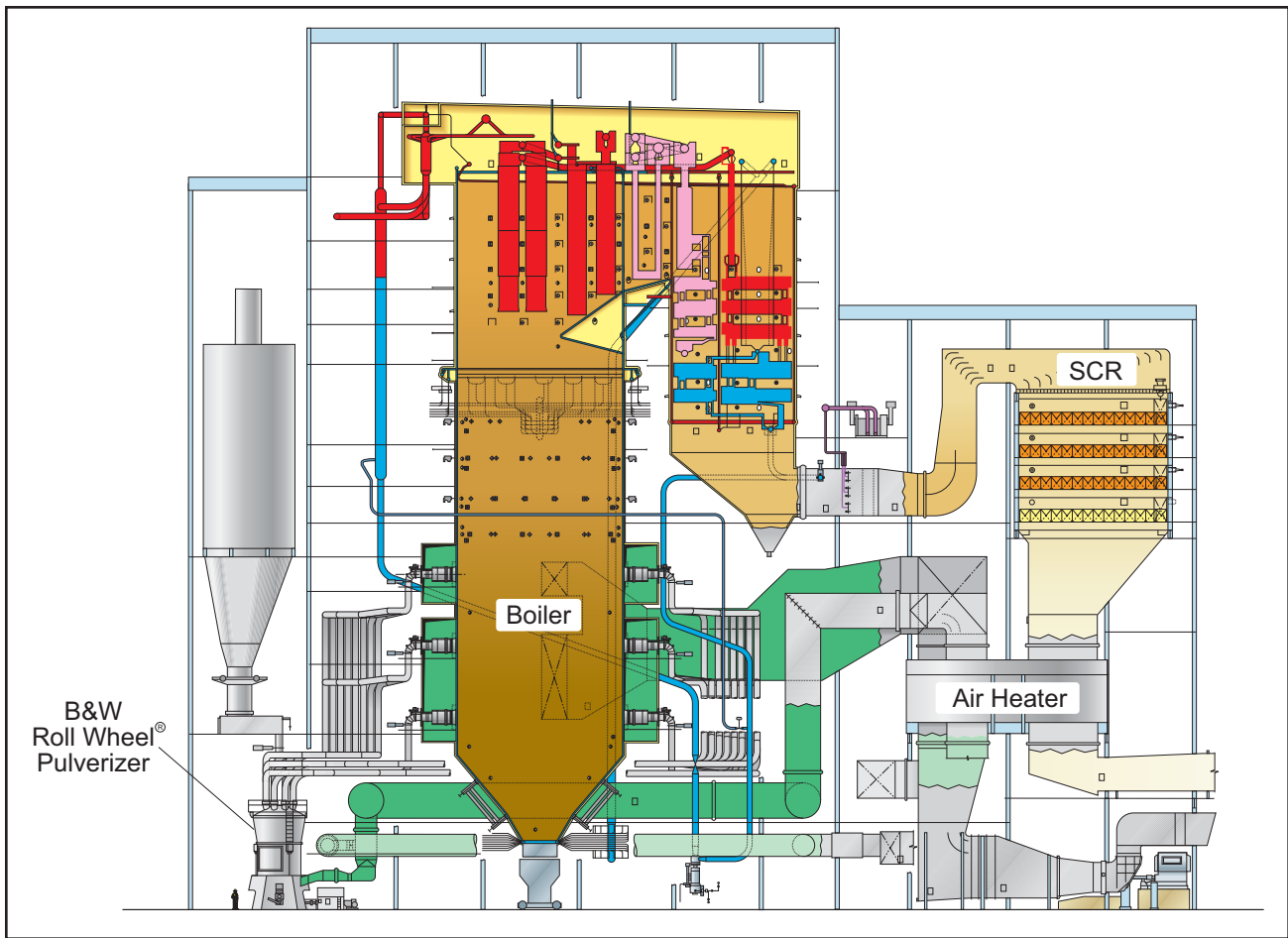
Unit 2, 3rd quarter, 2012

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.

Babcock & Wilcox
 20 S. Van Buren Avenue
 Barberton, Ohio 44203 USA
 Phone: 330.753.4511
 Fax: 330.860.1886

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