

Dominion Virginia City Hybrid Energy Center



Project summary

Location: St. Paul, VA, USA
 Customer: Shaw Stone & Webster
 Duration: 2007-2012
 Scope: Design and supply of 2 CFB boilers

Dominion powers about 150,000 homes from its Virginia City Hybrid Energy Center 670 MWe (gross) clean-coal plant located near St. Paul, Wise county in Virginia. The plant features two Sumitomo SHI FW circulating fluidized bed boilers fueled by local waste coal and up to 20% biomass protecting the Clinch River and its tributaries from environmental harm.

- ▶ Large scale, clean reliable and affordable power
- ▶ Two boilers supply single turbine generator
- ▶ Includes CFB polishing scrubbers
- ▶ On-site limestone sizing mills

Plant Electrical Output (Gross/Net)	2 x 334/2 x 293 MWe	
Steam Flow (SH/RH)	976/864 tph	2143/1902 kpph
Steam Pressure (SH/RH)	173/41.5 barg	2515/602 psig
Steam Temperature (SH/RH)	568/568°C 1055/1055°F	
Feedwater Temperature	255°C	491°F
Fuel	Coal, Biomass (Wood)	

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Our vision is to provide sustainable energy solutions through decarbonization, decentralization and digitalization of the energy industry. Our capabilities cover customer needs in the fields of power generation utilizing circulating fluidized bed (CFB) technologies, long term energy storage, and related network services. We continuously broaden our portfolio of products and services by advancing our in-house technologies and developing further alliances with new partners.

Our Values

Respect for people.

Valuing and inviting differing views and ideas

Committed to customers.

Exceeding expectations and providing value

Safety, integrity and teamwork.

Incorporating ethics in everything we do

Ownership of results.

Personally ensuring that success is achieved

Passion to innovate and grow.

Setting challenging goals for growth



Sumitomo
SHI **FW**