

# Dry Fork Station

## Circulating fluidized bed scrubbing technology



**Project summary**  
 Location: Gillette, WY, USA  
 Customer: Nooter/Eriksen  
 Duration: 2009-2011  
 Scope: Design and supply of CFB scrubber

- ▶ Sumitomo SHI FW supplied the circulating fluidized bed scrubber behind a new 420 MWe PC boiler.
- ▶ Our scope included the design and supply of the absorber, pulse jet fabric filter, ash recirculation system, water injection system and lime dry hydrator.

<b>Plant electrical output</b>	420 MWe @ 4,300 ft	500 MWe @ SL
<b>Fuel</b>	Subbituminous PRB coal	
<b>CFB scrubber flue gas flow</b>	1.8 million ACFM	3.1 million m3/hr
<b>Flue gas temperature</b>	294°F	146°C
<b>SO2 removal</b>	Up to 97%	
<b>SO3 removal</b>	Up to 96%	
<b>PM removal</b>	Up to 99.9%	
<b>Hg removal</b>	Up to 60%	Up to 80% with PAC

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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**