

# Lahti Biomass Gasifier

First large-scale gasification project for repowering existing coal plant



### Project summary

Location: Lahti, Finland  
 Customer: Lahti Energia  
 Start-up: 1997  
 Scope: Design and supply of biomass gasifier

- ▶ Design and supply of CFB biomass gasifier connected to PC boiler at Kymijarvi Power Station in Lahti, Finland
- ▶ Designed to fire biomass and waste RDF
- ▶ Reduced existing coal power plant CO<sub>2</sub>, SO<sub>x</sub> and NO<sub>x</sub> emissions while converting local biomass and waste into steam for heating the community
- ▶ High gasifier ability of over 96%

<b>Gasifier Thermal Output</b>	50 MWth
<b>Gasifier Type</b>	CFB
<b>Fuel</b>	Biomass, waste RDF

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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**