



Client: IRF  
Year: 2018

Milestones

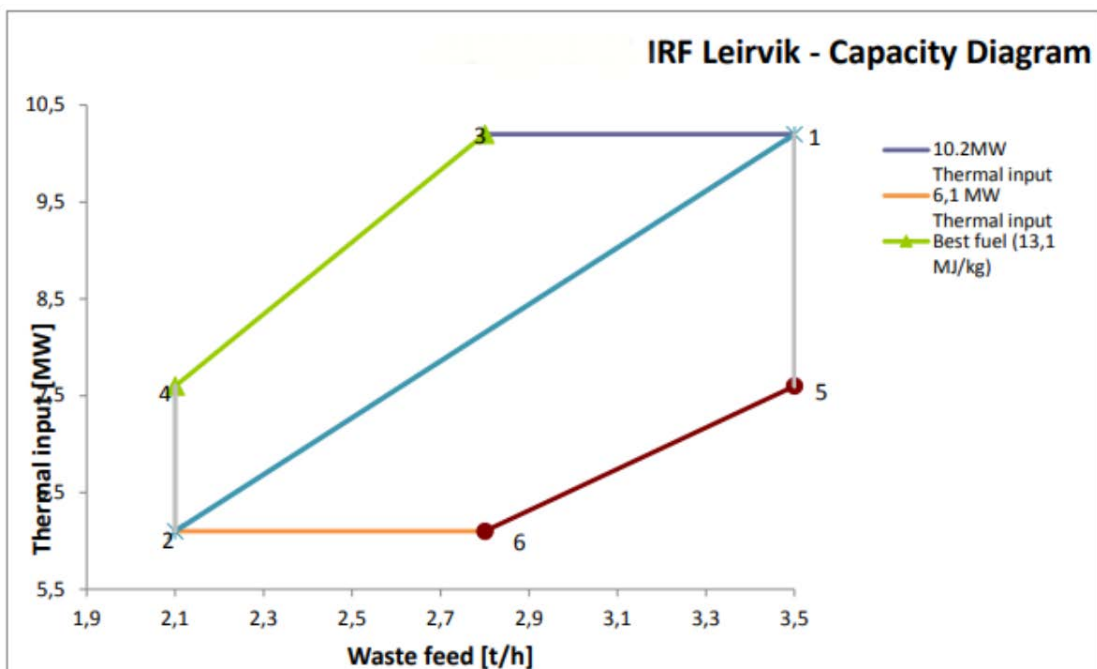
Contract: 09-01-2017  
Boiler installation: 26-02-2018  
Trial run: 14-05-2018

Data

Fuel: Waste  
Design temperature: 140 °C  
Design pressure: 12 bar(g)

### Project description

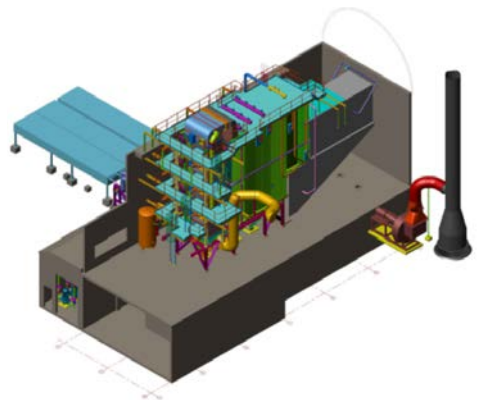
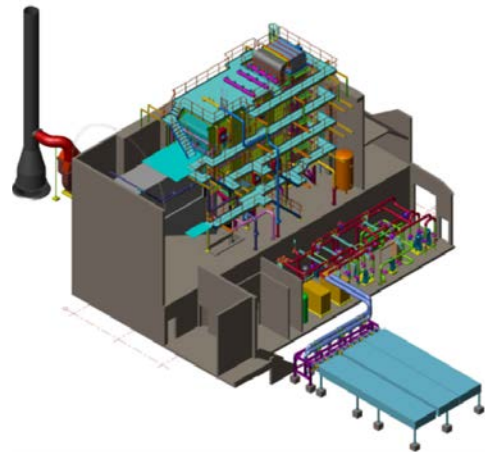
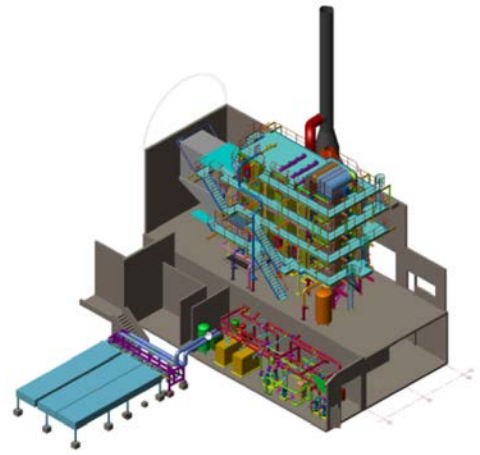
Babcock & Wilcox Renewable Service was given the task of upgrading the furnace and replacing the hot water boiler at Leirvik waste-to-energy plant in the Faroe Islands. The plant dates back to 1989 and was originally designed for 2.5 tons of waste per hour. The purpose of the plant upgrade was partly to increase the capacity of the plant and to extend the service life. The capacity was raised to 3.5 t/h, 12 bar and 140 °C and is expected to extend its useful life.



continued ►

## Scope of supply

- New water-tube boiler
- New economizer
- 6 MW district heat exchanger
- Sootblowing system for boiler and economizer
- Water system, boiler circulation pumps and shunt circuit
- Pressurization system
- New air to water cooling towers, as well as an upgrade of the cooling circuit's capacity
- Compressed air system
- Combustion air fans
- Flue gas fan and chimney
- Boiler ash system
- Boiler and economizer steel structure
- Galleries and stairs for access and operation of boiler and economizer
- Piping, valves, frequency converters, instrumentation
- Water treatment and filling system
- Chemical dosing system
- Implementation of new functions in the existing control and monitoring system
- Installation of new refractory
- Insulation and cladding
- Disassembly of existing equipment
- Mechanical and electrical installation of delivered equipment
- Spare parts
- CFD calculations for the display of temperature gradients, as well as flue gas residence times in two load points
- Commissioning of equipment included in the delivery, trial run and training of the operating staff
- Operational, maintenance and quality documentation
- CE marking for delivery in accordance with EN requirements



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