Biomass heating plant Dingolfing, Germany







Project

- Biomass heating plant supplying energy to a large industrial facility
- Customer: Schmidmeier NaturEnergie GmbH, Zeitlarn
- Planning phase: nearly two years

Performance parameters

- Output: 15 MW
- System pressure: max. 12 bar
- System volume: 800 m³
- Flow / return temperature: 145 / 110 °C
- Safety Temperature Limiter: 160 °C

Task

- Supply of a system solution for pressure maintenance, degassing and energy storage.

Product solution

Pressure maintenance and degassing:

- 1 × Reflex GH 140, special configuration
- 1 × Reflex GS 5.5-H, incl. custom software
- 1 × Reflex Special Servitec Lev. 160-4

Buffer tanks:

- 6 × buffer tanks, 100,000 l each

Reflex vessels:

- 2 × Reflex GG primary vessels, 10,000 l each
- 5 × Reflex GF secondary vessels, 10,000 l each
- 2 × Reflex V intermediate vessels, 5,000 l each, 180°
- 1 × Reflex V intermediate vessel, 1,500 l, 180°
- 1 × Reflex G control vessel, 1,000 l, 16 bar

Achieved goals

- Efficient and safe pressure maintenance and energy storage for the biomass heating plant
- Successful operation and integration of the pressure maintenance, degassing systems and buffer tanks
- System safety and efficiency ensured
- Close coordination with the authorities and the customer on special transport arrangements

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