

# Plantware

## Pulsations in Flue Gas Duct

### Project Details

Project	FYV8, Biomass Boiler built by Vattenfall
Client	Bioener ApS
Built	Odense, Denmark
Year	2009

PlantWare has made duct optimization of flue gas ducts for Bioener ApS for reducing pressure loss and problems with pulsation in pressure and flow. The optimization was related to the battery limit between Bioener and Vattenfall scope of supply – the tee leading either to the inlet of the scrubber or bypassing the scrubber.

PlantWare conducted site survey and made CFD model for verification of the survey. Furthermore, the CFD model was used for finding the best duct modifications in order to solve the problem at the lowest cost.

### Duct design

PlantWare are specialist in engineering of ducts for air- and flue gas at utility power plants, waste and sludge incineration plant and industrial boiler plants.

We do process design and mechanical design:

- Guide vanes
- Plate/reinforcement optimization
- Buckstay corner
- Supports and hinges

plus heat and sound insulation, sound attenuators, dampers, fans, preheaters, demisters etc.

### Contact



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