

BENEFITS

Capacity increase
Emission reduction
Energy efficiency
Fuel saving
Postponing boiler investment
Recovering of waste heat

CASE PARTICLE EMISSION REDUCTION

Energy utility

#districtheating
#emissionreduction #morepower
#savingfuel #decreasingCO₂

A district heating utility planned to use wet, even 60 m-% wood chips in their new 10 MW district heating plant. Instead of investing to a flue gas filtering system, the utility decided to install a Caligo CSx-PHP scrubber with integrated heat pump and enhanced scrubbing module.

As result the particle emission of the production could be limited to under 40 mg/Nm³ and heat recovery percentage increased about 35% (up to 3–4 MW). Electricity consumption of the system stayed in very low level, being max. 160 kW_e.

The Caligo CSx-PHP system has been running since the year 2015 without any major problems. By following the service program, the performance of the system has stayed in high level throughout the years.

Caligo scrubbers, with or without integrated heat pump, are delivered always as factory tested Plug and Play units, including all HW&SW needed to autonomous control of the unit. Site time during installation of CSx is only a few days.



Caligo Industria Oy is a Finnish CleanTech company, who markets and sells product and system solutions for energy recovery and purification of flue gases in the energy and processing sectors as well as for the utilisation of waste heat from the processes.

Caligo is a part of Swedish Addtech Group.

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