



BENEFITS

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

CASE SAWMILL

Process industry

#sawmill #drying #heatrecovery #biopower

A sawmill has two, 14 + 10 MW bio boilers, which are used to produce heat energy for their process. Surplus of side products of the sawmill, saw dust and bark, are sold to other bio power plants as fuel. Since the export fuel needs transportation in all the cases, the sawmill decided to invest in a belt dryer in order to increase the heating value of the fuel and optimize the moisture content (i.e. weight) of the fuel for transportation purposes.

After a quick survey with Caligo, it was obvious that the flue gases from the bio boilers could produce all the energy needed for the belt dryer. A decision to invest in a Caligo CSx-B basic scrubber was made.

As result of the investment the main process of sawmill was not disturbed and the energy to the dryer is produced from the waste heat of the boiler (flue gas) by the scrubber. The heat recovery percentage is 35–40 % and the investment payback time is estimated to be about 2–3 years.

The owner of the sawmill has Caligo scrubber also in another sawmill producing heat to a dryer.

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 running 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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