

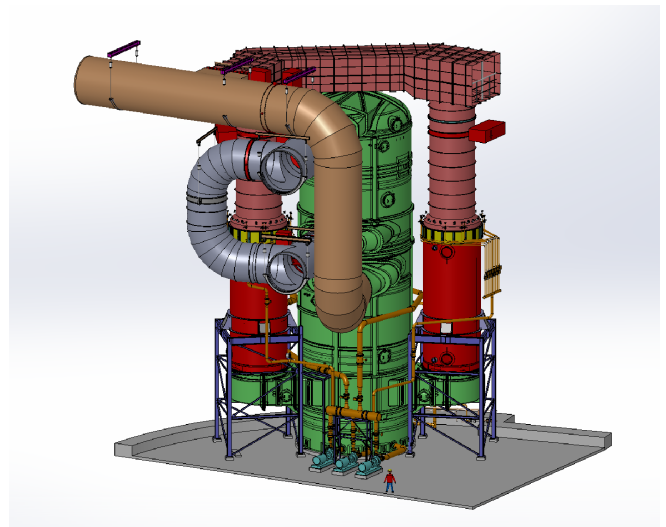
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EXPERTISE Flue gas condensation has historically been Radscan's strongest area, with over 70 unique projects on our reference list. We calculate, plan, design, assemble and commission our plants, and we normally assume functional responsibility for the total delivery.

TECHNOLOGY Flue gas condensation is based on a moist fuel (typically biofuel or waste) and a low-value energy recipient (typically district heating). The moisture in the fuel evaporates before the fuel is combusted, causing a loss of energy. Our technology means that some of this energy can be recycled and used in the district heating network. Using this technology, a typical energy yield from fuel can increase by about 25 %, meaning significant savings in the form of reduced fuel demand, as well as providing significant environmental benefits. Carbon dioxide emissions are reduced along with the fuel demand, and the flue gas emitted from the facility is treated in the process.

SERVICE/INNOVATION Depending on customer's needs we deliver flue gas cleaning, flue gas condensation, flue gas condensate treatment and make-up water treatment. Each plant is custom designed for the specific requirements and conditions. Flue gas condensation system can include quench, tube heat exchanger, scrubbers, combustion air humidification, and heat pumps. Flue gas condensate is treated with systems of membrane technology.

REFERENCES • **ENEA Wytwarzanie, Bialystok, boiler K6, Poland.**

Additional 25 MWh to boiler's 80 MWh. 20 m³/h flue gas condensate treated to district heating quality.

• **Stockholm Exergi, Värtaverket KVV8, Sweden.**

Biodriven CHP plant with 345 MW boiler. Radscan delivers additional 100 MW and 60 m³/h boiler make-up water.

• **Lahti Energia, Lahti KYVO3, Finland**

Biofuel boiler of 153 MW. Radscan delivered additional 40 MW and cleaned 55 m³/h condensate to make-up water quality.

TARGETING SECTORS • Biopower-, CHP, district heating- and waste to energy plants.

• Sawmills, pulp and paper industry, steel industry.

• Wastewater treatment.