



**Swedish Exergy**

- Experience and know-how for optimal solutions -

## Swedish Exergy

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**EXPERTISE** A tailor-made dehydration solution that will reduce; carbon footprint, production cost, water usage and energy waste, all while increasing the production safety, reliability and maximize profits.

**TECHNOLOGY** The Exergy Superheated Steam dryer (**ExergyPSSD®**) is a closed, pressurized system where the wet product is exposed to superheated steam. The dryer is an indirect contact dryer, meaning multiple heating medias can be used. Drying is one of the most energy demanding stages in all industries, but with Exergy steam drying the water that is removed from the wet product is turned into steam thus allowing 95% of the energy input to be recycled.

**SERVICE/INNOVATION** We analyze our customers' needs to provide effective drying process that leads to a sustainable and cost-effective complete solution with high productivity and energy efficiency. Swedish Exergy is focusing its efforts on future energy production systems, new application development and continued product innovation. Sustainability, innovation and efficiency pervades the whole organization and can be detected in anything we do.

**INTERNATIONAL EXPERIENCE** The ExergyPSSD® technology was invented at Chalmers University in Gothenburg, Sweden, in the late 1970'. Our first dryer was delivered in 1979. Since then, we have delivered over 100 solutions all around the world. Some of our clients are **BillerudKorsnäs, HMAB, LG, Tauron, Havslund and Sedamyl**.

**CASE STUDIES**

- **Installed year:** 1988
- **Feed rate to ExergyPSSD®:** 2600 ton/day milled biomass with 50% moisture content.
- **Energy used for drying:** 150 kWh electricity/ton evaporated water in steam compressors. No thermal energy needed.
- **Output from ExergyPSSD®:** 1444 ton/day at 10% moisture content
- **Final application:** Production of wood pellets

**TARGETING SECTORS** Our clients can be found in the **biomass-, ethanol-, pulp and paper-, sludge- and food/feed industry**.



SWEDISH BIOENERGY  
**CLIMATE  
SOLUTIONS**

**SWEDISH BIOENERGY CLIMATE SOLUTIONS**  
is a platform focusing on internationalization of Swedish bioenergy technology and knowledge. Funded by the Swedish Energy Agency.

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