

RES:

- Solar thermal
- PV
- Biogas
- Heat pumps
- Biomass
- Absorption chiller
- Wind
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Changes in the production and energy supply:

- Process optimisation
- Process intensification
- Heat integration
- Storage
- Energy efficiency
- solar integration
- Biobased products
- Emerging technologies
- Cleaner production
-

Unit operations:

- Cleaning
- Drying
- Evaporation and distillation
- Blanching
- Pasteurization
- Sterilization
- Cooking
- Other process heating
- General process heating
- Heating of production halls
- Cooling of production halls
- Cooling processes
- Melting
- Extraction
- Bleaching
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Project name: Rudolf Ölz

Project description:

Ölz master bakers is the clear market leader and the most popular baked goods brand in Austria. Production is located in Dornbirn at two locations "Wallenmahd" and "Achmühle". For the production of yeast and to leaven sourdough the tank must first be heated and then cooled by jacket cooling. Cooling is done by chillers with a total of six compressors and a cooling capacity of 26 kW and 128 kW. The power consumption of the main pump is reduced by frequency controlled pumps.

Sector: food & beverages

Sub sector: bread/ biscuits/ cakes

Country: Austria

Company scale: Large (≥ 250 people and/or ≥ 50 mio€ turnover)



<u>Investigated Company:</u> Rudolf Ölz Meisterbäcker GmbH		<u>product output</u> tons/a <u>product output</u> tons/a <u>product output</u> tons/a <u>product output</u> tons/a
<u>Employees:</u> 810		<u>Turn over:</u> EUR 173.5 Million in 2009
<u>Unit operations involved:</u> Cooling processes	<u>Temperature and Energy demand [°C, MWh/a]:</u> Cooling Demand: 1,347 MWh/a	<u>Equipment for heat/cooling generation:</u> cooling: chillers with a total of six compressors and a cooling capacity of 26 kW with hydraulic control heating: conventional boiler and 2 steam boilers
<u>Process optimisation:</u>	<u>System optimisation:</u> Expansion of the heat recovery, Increase the storage volume, optimization of the hydraulic, Improving the regulatory and Efficient use of temperature levels in cooling	<u>Energy supply technology:</u>
<u>Energy saved [%, MWh/a]:</u> Electricity- 295 MWh/a Gas- 769 MWh/a	<u>Fossil energy saved [%, MWh/a]:</u> Not specified	<u>CO2 emissions saved [%, t/a]:</u> Not specified
<u>Link to further information:</u> www.energie-consulting.at	<u>Co-ordinator, realising partner:</u> sattler energie consulting gmbh	<u>Filling in person:</u>