

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: Berglandmilch eGen, RohrBach

Project description:

Upper Austria is Austria's only sour milk cheese area with a production volume of 400,000 kg annually. It was necessary to have a central cooling plant for the supply of various air conditioning of hot room and maturing rooms. Cold air is generated by means of cooling machine with heat exchanger. The heat energy is provided by gas boiler. Refrigeration system with cooling capacity 320 kW and Energy storage buffer of 5m³ is added. For optimal heat utilization a plant with brine system was selected.

Sector: food & beverages

Sub sector: milk products

Country: Austria

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



<u>Investigated Company:</u> Berglandmilch eGen, RohrBach		<u>product output</u> 400 tons/a <u>product output</u> tons/a <u>product output</u> tons/a <u>product output</u> tons/a
<u>Employees:</u> 1,350		<u>Turn over:</u>
<u>Unit operations involved:</u> Coolinf of hot rooms and maturing rooms	<u>Temperature and Energy demand [°C, MWh/a]:</u> Gas - 2,600	<u>Equipment for heat/cooling generation:</u> Heat: Gas boiler Cooling:airconditioner with heat exchanger
<u>Process optimisation:</u> For optimal heat utilization and economic operation, a plant with brine system was selected. Heating be dispensed by means of steam	<u>System optimisation:</u> Refrigeration system with cooling capacity 320k W , Energy storage buffer of 5m ³	<u>Energy supply technology:</u>
<u>Energy saved [%, MWh/a]:</u> 1,100	<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.schaerdinger.at	<u>Co-ordinator, realising partner:</u> Berglandmilch eGen	<u>Filling in person:</u>