

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
- preheating

Project name: Berglandmilch eGen, Feldkirchen

Project description:

Feldkirchen bei Mattighofen is the largest dairy in Berglandmilch group. At this location cheese like BergBaron, Traungold is produced with automated systems such as cheese. There is 75,000 Liter external tank to store the waste heat. It is used for cooling milk after the cheese making process and preheating cheese milk. Heat exchangers increase the efficiency of process water, improve measurement and control of heat exchangers. The flow control is controlled by the frequency inverter pump.

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, Feldkirchen		<u>product output</u> 2,300,000 hl/a	
		<u>product output</u> tons/a	
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<u>Employees:</u> 1,350		<u>Turn over:</u>	
<u>Unit operations involved:</u> preheating , cooling	<u>Temperature and Energy demand [°C, MWh/a]:</u> Tank: 20-30 ° C preheating : 4-32° C	<u>Equipment for heat/cooling generation:</u> Heat exchanger	
<u>Process optimisation:</u> Heat exchangers for process water	<u>System optimisation:</u> Hand control valves replaced by Flow control by frequency inverter pumps	<u>Energy supply technology:</u> Vapor/Gas	
<u>Energy saved [%, MWh/a]:</u> 400	<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.berglandmilch.at	<u>Co-ordinator, realising partner:</u> Berglandmilch eGen	<u>Filling in person:</u>	