

Installation of heat and cold recovery for cheese production

The company Belovezhskie Syry located in Vysokoe, Brest region of Belarus, has been producing dairy products since 1937.

Currently, the company produces high quality hard cheese varieties and different types of butter and whey. The company products are consumed both domestically and abroad. The main export markets are CIS countries such as the Russian Federation, Armenia, Azerbaijan and Kazakhstan.

The thermal energy for the cheese production plant and the office areas is supplied from the company's own boiler house, which is in operation since 1999. The cooling demand of the production is provided by an ammonia refrigeration plant and a decentralized system of cooling units.

The project encompasses the design, construction and operation of a heat and cold recovery system in the milk processing process on the basis of energy-efficient heat and cold exchangers in the cheese production plant. The new waste energy recovery technology saves electricity and natural gas used for cooling whey and heating milk.

Installed technologies



Project highlights

Location	Vysokoe / Kamenetzki district / Brest region
Type of project	Industrial energy efficiency Technological basis of the project includes heat exchangers, circulating pumps, control system, pipelines and fittings
Project results	Reduced energy costs and financial savings
Total project cost	USD 217 thousand
Total loan	USD 217 thousand (from OJSC Belgazprombank within BelSEFF)
Payback	1.2 years
Savings	Energy: 23 percent Total cash savings: USD 192 thousand per year
CO₂ emission reduction	Approximately 893 tonnes per year

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The technical assistance for the project included an analysis of the proposed technology, the financial and technical parameters and risks. It was provided by the BelSEFF Facility consultant (a consortium of KPMG Česká republika, s.r.o. and ENVIROS, s.r.o., Czech Republic) and financed by the Ministry of Finance of the Czech Republic through the Official Development Assistance trust fund.