

Insulation, heating and heating system control improvement of office buildings

The foreign investment unitary company Facility Management Promtehnika (FM Promtehnika) manages and operates office buildings in Brest city of Belarus. It is a sister company of the foreign production unitary company MK Promtehnika.

MK Promtehnika is a large player in the Belarusian market of modern milking and cooling equipment for dairy farms. It is involved in this market since 1999. Nearly one third of the milk produced in the Republic of Belarus is cooled using milk cooling tanks manufactured by the company.

The office buildings, which were subject to a project, are located close to the production site of MK Promtehnika in Free Economic Zone Brest. The premises are to a large extent rented out to third parties, such as a branch office of a bank, a small restaurant/cafeteria and accountant offices. FM Promtehnika decided to undertake a complex thermal modernization of the buildings to decrease energy costs.

The complex consists of an older two-storey building (built in 1967) and a three-storey building (built in 1995) and has a flat roof. The total heated floor area of the buildings is nearly 2,700 m². The heating of the buildings is provided by a hot water heating system with a central heat source. Domestic hot water is provided through a decentralised system with electricity flow heaters and is used only in toilets and in a small cafeteria.



Project highlights

Location	Free Economic Zone Brest / Brest region
Type of project	Industrial energy efficiency Energy saving measures comprised the thermal insulation of the building envelope (walls), windows replacement and installation of the new hot water radiators with thermostatic valves control system.
Project results	Reduced energy costs and financial savings
Total project cost	USD 300 thousand
Total loan	USD 190 thousand (from OJSC Belgazprombank within BeISEFF)
Savings	Energy: 30 percent Total cash savings: USD 15 thousand per year
CO₂ emission reduction	Approximately 35 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 BeISEFF 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.