

ENERGY EFFICIENT MODERNISATION OF A BUILDING

The company bought a new building to relocate production and administration. After acquisition of the building the management realised that it caused higher energy costs than expected and that it jeopardised commercial viability.

The company asked RuSEFF experts to conduct an energy assessment and to propose measures to reduce energy costs. RuSEFF experts suggested to decrease the threatening energy costs by installation of the gas infrared heaters, replacement of the old windows, insulation of the roof, installation of the energy efficient water boilers, replacement of the lighting system.

Total proposed investments of USD 505 000 resulted in energy costs savings of 38% and return on investment of 29%. Annual savings amount is USD 114 000 and a payback period is 3.7 years. Environmental effect is 138 tonnes of CO₂ - eq. saved per year.



Company

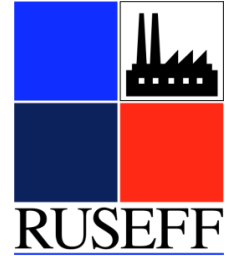
Economic sector	Production and trade of medical equipment
Region	Volga region

Project Goal and Main Investment

Project goals	<ul style="list-style-type: none"> Reduction of energy costs Restating of commercial viability
Main investments	<ul style="list-style-type: none"> Gas infrared heating Modern energy efficient windows Roof insulation Energy efficient boilers New lighting system
Investment size	USD 505 000

Results

Project results	<ul style="list-style-type: none"> Energy savings: 703 MWh of fuel equivalent per year Reduction of energy costs: 38% Reduction of CO₂ - eq. emission: 138 tonnes per year
Financial viability	<ul style="list-style-type: none"> Annual cost savings: USD 114 000 Payback period: 3.7 years IRR: 29%



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