

THE REPLACEMENT OF THE OLD HEATING SYSTEM PAYS BACK IN JUST OVER ONE YEAR

The company, which produces and delivers steam and hot water for municipal and industrial consumers, requested the RUSEFF experts to assess potential energy saving opportunities.

The current system generates heat using a low efficiency steam boiler and also provides heating for the company's own premises.

The RUSEFF experts gave advice on how the company should invest in optimising their heating system and recommended that the company replace the old boiler with two higher-efficiency boilers and a cogeneration system. In addition an infrared gas radiant heating system was suggested to provide an independent source of heat for the facility that would be easier to control.

This proposed investment of USD 565 000 will result in lower fuel consumption and reduced electricity costs, which will lead to annual savings of USD 478 000, a payback period of only 16 months, yielding a 35% return on investment in terms of energy savings!



Company

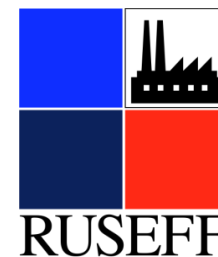
Economic sector	Heat supply
Region	Ivanovo

Project Goal and Main Investment

Project goals	<ul style="list-style-type: none"> Decrease gas and electricity consumption Provide independent heat supply for own premises
Main investments	<ul style="list-style-type: none"> High efficiency boilers Small scale combined heat and power Infrared gas heaters
Investment size	USD 565 000

Results

Project Results	<ul style="list-style-type: none"> Energy savings equivalent to 5 800 MWh per year Energy savings: 32.7 % Emission reduction equivalent to more than 1 000 tonnes CO₂ per year
Financial viability	<ul style="list-style-type: none"> Annual cost savings: USD 478 000 Payback period: 1.4 years IRR: 35 %



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