

DISTRICT WATER SUPPLY SYSTEM MODERNISATION

The company is a privatised district water supplier with a water network of more than 100 km. Old leaking water pipes and outdated technical equipment led to high water and energy losses within the network.

According to the energy assessment RuSEFF experts recommended to replace old water pipes, to install variable frequency drives and water dispatch control system, to modernise water treatment plant.

The proposed investment of USD 1 million resulted in annual savings of USD 188 000 and reduction of energy consumption by 49%, a payback period of 4.5 years and an overall return on investment in terms of energy savings of 18.4%. Emission reduction is 281 tonnes of CO₂ – eq. annually.



Company

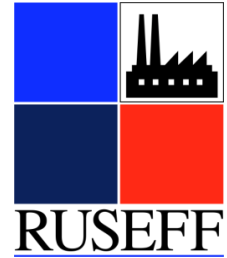
Economic sector	Utility
Region	Volga region

Project Goal and Main Investment

Project goals	<ul style="list-style-type: none"> Reduction of energy costs Reduction of water losses
Main investments	<ul style="list-style-type: none"> Replacement of old water pipes Installation of variable frequency drives Installation of water dispatch control system Modernisation of water treatment plant
Investment size	USD 1 000 000

Results

Project results	<ul style="list-style-type: none"> Energy savings: 1 781 MWh of fuel equivalent or 49% per year Reduction of water losses: 720 000 m³ per year Emission reduction of CO₂ - eq.: 281 tonnes per year
Financial viability	<ul style="list-style-type: none"> Annual cost savings: USD 188 000 Payback period: 4.5 years IRR: 18.4 %



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