

# ENERGY EFFICIENT MODERNISATION OF A HOTEL

*The company runs a hotel at the countryside. The business was running well but was suffering from high energy costs and a non-sufficient comfort level for the guests in wintertime.*

The hotel management asked RuSEFF experts to conduct an energy assessment and to recommend energy saving measures. RuSEFF experts offered the following measures: replacement of old boilers by modern gas-fired boilers; insulation of roof and walls; replacement of old wooden windows, installation of a LED lighting system.

The proposed investment of USD 670 000 resulted in reduction of energy costs by 32%. The payback of the total investments is 4.9 years and return on investment is 20.4%. Having reduced CO<sub>2</sub> - eq. emission by 107 tonnes per year the hotel can now be promoted amongst clients as environmentally friendly with a high level of comfort.



## Company

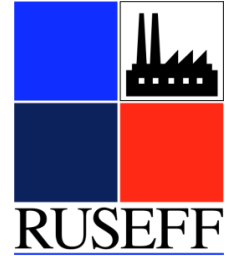
Economic sector	Service sector
Region	Volga region

## Project Goal and Main Investment

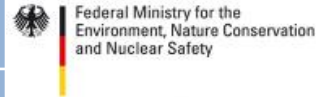
Project goals	<ul style="list-style-type: none"> <li>▪ Decreasing of energy costs</li> <li>▪ Profitability improvement</li> <li>▪ Increasing of comfort level for guests</li> </ul>
Main investments	<ul style="list-style-type: none"> <li>▪ Modern gas boilers</li> <li>▪ Roof and wall insulation</li> <li>▪ New energy efficient windows</li> <li>▪ LED lighting system</li> </ul>
Investment size	USD 670 000

## Results

Project results	<ul style="list-style-type: none"> <li>▪ Reduction of energy costs by <b>32%</b></li> <li>▪ Reduced CO<sub>2</sub> - eq. emission: <b>107 tonnes</b> per year</li> <li>▪ <b>Image</b> improved as environmentally friendly</li> </ul>
Financial viability	<ul style="list-style-type: none"> <li>▪ Payback period: <b>4.9 years</b></li> <li>▪ IRR: <b>20.4%</b></li> </ul>



## Donors



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