

45% ENERGY SAVINGS AS A RESULT OF THE MODERNISATION OF BOILERS AND AIR COMPRESSORS

The RUSEFF experts were requested to conduct an energy assessment in one of the biggest companies producing fabricated wood block flooring, skis, ply-curve articles, wood chipboard and furniture board. The company currently uses a conventional fuel fired boiler and inefficient air compressors.

The RUSEFF experts gave advice on how the company should invest in a biomass boiler to use their free wood waste to replace the conventional fuel fired boiler which would significantly reduce energy costs. Additionally they recommended the company replace their low efficiency air compressors with modern equipment and to install three steam turbine CHP's to balance the electricity demand within the company.

The proposed investment of USD 2.0m will result in lower fuel consumption and greatly reduced electricity costs which will lead to annual savings of USD 694 000, a payback period of just 3 years and a 32% return on investment in terms of energy savings.



Company

Economic sector	Wood Product Production
Region	Kirov

Project Goal and Main Investment

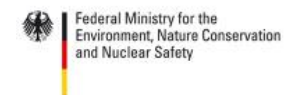
Project goals	<ul style="list-style-type: none"> Reduction of energy costs
Main investments	Purchase Equipment: <ul style="list-style-type: none"> Biomass boiler Air compressors CHP plant
Investment size	USD 2 000 000

Results

Project Results	<ul style="list-style-type: none"> Energy savings equivalent to 65 213 MWh per year Energy savings: 45% Emission reduction equivalent to almost 12 000 tonnes CO₂ per year
Financial viability	<ul style="list-style-type: none"> Annual cost savings: USD 694 000 Payback period: 2.9 years RR: 32 %



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