



Sustainability action · Project Renewable Energy and Energy Efficiency

KronoClimate Biomass, Russian Federation

The project replaces fossil fuels in a wood processing manufacturing plant in the Russian Federation by biomass and hence leads to a substantial reduction in the plant's greenhouse gas emissions.

Project

The project activity is a wood processing manufacturing plant. Prior to the project, fossil fuels, namely peat and heavy oil, delivered the energy required by the manufacturing plant while wood was only used as a productive input. Residues from wood processing were deposited in a dump near the factory. Due to anaerobic decay, this also led to the emission of methane, which is a more potent greenhouse gas than CO₂.

The project aims to reduce the fossil fuel use by generating energy from biomass, mainly the wood residues which are a side-product of the wood processing.

The wood residues that used to be deposited in a nearby dump prior to the project are now used in the central energy generator to help meet the company's energy demand. To date, 385'000t/year of wood residues are used for heat production alongside 190'000t/year of biomass from third parties.

This is the only climate project in the Russian Federation which is qualified for the high quality Gold Standard. This project has enhanced a more sustainable development for the whole region and has led to social, economic, and environmental improvements.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 301 852	According to the rules of the VCS	By SQS	Provided by Markit Environmental Registry	15,000 tCO ₂ e	As documented in our database	Pictures available



Location

The project is located near the city Sharya in the Russian province Kostroma. Sharya lies about 650 km in the Northeast of Moscow

Project achievements

Socio-economic impact

- Due to the transfer of technology and know-how, many specialized jobs have been created, leading to a substantial increase of employment in the region
- The added value chain is of importance for the whole region
- The project follows an integrated quality management approach based on the guidelines of the ISO 9001 norm
- The company fulfills the criteria of the OHSAS18001 series, which certifies its organizational health and safety guidelines
- The project owner improved the local infrastructure (e.g. by building a new road near the power plant).
- As a good corporate citizen, the company supports the poor and those in need in the area. Financial aid was given to earthquake victims in several regions.
- Local farmers are supplied with free, green fertilizer in the form of wood ash.

Environmental impact

- The project stopped the deposition of wood residues into un-man- aged landfills and has thus reduced methane emissions. This additional climate protection effort is not considered in the emission reductions of the project as it is difficult to quantify.
- The use of biomass for energy generation from third parties has improved the waste management of the whole region.
- Sustainable forest management practices are promoted among landholders in the area via the FSC-label.
- Through the implementation of state-of-the-art technology, the aerial emissions are cleaned by a plasma catalytic filter. Furthermore, the emission of formaldehyde, a harmful substance that is used in wood processing, is minimized.
- A closed production water cycle with a modern wastewater treatment plant was installed, further increasing the overall environmental performance of the project.

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