

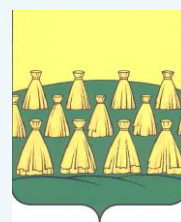


Sun and Wind: Universal Renewables for Local Sustainability

Sun and Wind

Priority 2 Common challenges

Measure 2.3 Improvement of energy efficiency and promotion of renewable energy sources





Short summary of the project

Estonia and Russia being involved into international climate policies set challenging goals within the climate sector (the "20-20-20" Doctrine and the Russian Climate Doctrine). Due to those documents, they are to raise considerably their rates of energy efficiency and energy saving as well as of usage of local renewables. These country goals cannot be achieved without concrete actions on regional and municipal levels.

Energy saving actions usually show best results in highly populated territories. However, a lot of settlements in Estonia and NW Russia, incl. Pskov Oblast are small localities with modest population, lack of financing, low information support, outdated infrastructure, restricted access to modern environmental and energy efficient technologies.

Low and medium cost measures (e.g. street lighting rearrangement, renewables usage, etc.) may result in more than 200% reduction of fossil fuel consumption, improved environment, better climate inside buildings. Supported by awareness raising and capacity building of the local authorities and population they make efficient and sustainable local development policies. Russian and Estonian municipalities in the Project show intent and political will to use their territories as testing grounds for such pilots (technical, information and organizational) together with the participating consultants .

Overall objective

To promote effective and sustainable use of local renewable energy resources and to diversify the range of used sources of energy through joint research, planning, pilot projects implementation and exchange of experiences in the target regions of Estonia and Northwest Russia.

Specific objective

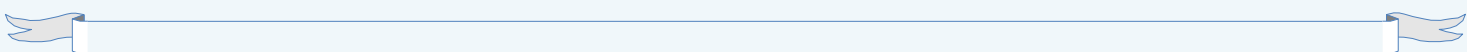
- ✚ To evaluate the energy saving and renewable energy sources usage potential in the Estonian and Russian target locations;
- ✚ To develop and implement a number of practical showcases of efficient application of local renewable and energy efficient solutions in the target areas;
- ✚ To facilitate local and regional authorities and communities to better understand and implement energy saving and energy efficiency measures on both municipal and grass-root level.

Beneficiary

Tartu Regional Energy Agency (Estonia)

Partners

Rõuge Municipality (Estonia)
ANO SKC "PskovRegionInfo" (Russia)
Meremäe Municipality (Estonia)
Pytalovo Municipality (Russia)
Gdov Municipality (Russia)





Expected results

- **Demonstrated options of wider use of local renewable energy usage in public sector.** Coverage of 3 main municipal services in Estonia and Pskov Oblast: street lighting, heat and energy supply. The actions will produce:
 - **6 showcases of using solar and wind power, biofuel and ground heat** as possible energy resources for small settlements without district heating and fossil fuel burning (oil, coal);
 - **modern equipment for street lighting** will be used to reduce municipal power consumption and to increase overall comfort of local population in the streets and public places;
- Estimation of the potential of developing usage of local renewables in Pskov Oblast performing more **wide-spread research of local renewable energy sources use potential** in Strugokrasnensky, Porkhovskoi and Bezhanitsky Districts and Zalita Island, Pskov Oblast. Based on the results of this research recommendations on using the renewables in the above areas will be developed, incl. technical, organizational and financial solutions and tools. **4 models of renewable energy supply and production chain** described and evaluated for using in South Estonia and Pskov Oblast;
- **1 Energy Class modernized** for information and methodological support of local authorities and population on sustainable development and energy efficiency issues;
- **4 seminars on renewable energy and energy efficiency** held for approximately 100 participants;
- **Networks of renewable energy experts**, local authorities and public representatives established and launched for disseminating best available energy efficiency practices in public sector.

Final beneficiaries

- Local communities and stakeholders from the remote municipalities
- Local population in Estonian and Russian cross-border regions (up to 30 000 people)
- Cross-border energy business

Duration

20 months

Budget

Total budget: **936 126, 00** EUR

Programme co-financing: 842 512, 90 EUR (90%)

Project co-financing: 93 613, 10 EUR (10%)

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