

Energy Efficiency Standardisation and Certification of the Construction Materials Sector in Russia

The project is implemented by NGO Ecoline with the support of the Prosperity Fund of Foreign and Commonwealth Office (UK).

The Foreign and Commonwealth Office's priorities are to promote UK national security, prosperity and values including democracy and human rights, and to build up Britain's diplomatic influence beyond Europe and North America.

The project aims at promoting a new life cycle energy efficiency standardisation and certification system in Russian construction material industry.

The construction materials industry is a rapidly developing sector of Russian economy. It's share in the overall Russian industrial production amounts 3.0-3.5%. The sector consists of over 20 various types of manufacturing processes functioning at nearly 9.5 thousand enterprises. There are more than 2 thousand larger and medium enterprises as well as many smaller industries. They employ over 650 thousand people in nearly all Russian regions.

The construction materials industry consists of companies engaged in the mining, quarrying and primary processing of raw materials for road and building construction. The industry includes extraction of sand, gravel, rock, clay, gneiss, granite, limestone, marble, slate, gypsum, lime and other raw materials. Construction materials enterprises produce cement, concrete and bricks and carry out also filtering, bleaching, crushing, cutting, sizing and other stone-processing operations.

The construction materials industry is known as one of sectors consuming lots of natural resources and energy. Significant environmental impacts are typical of many sub-sectors of the construction materials industry.

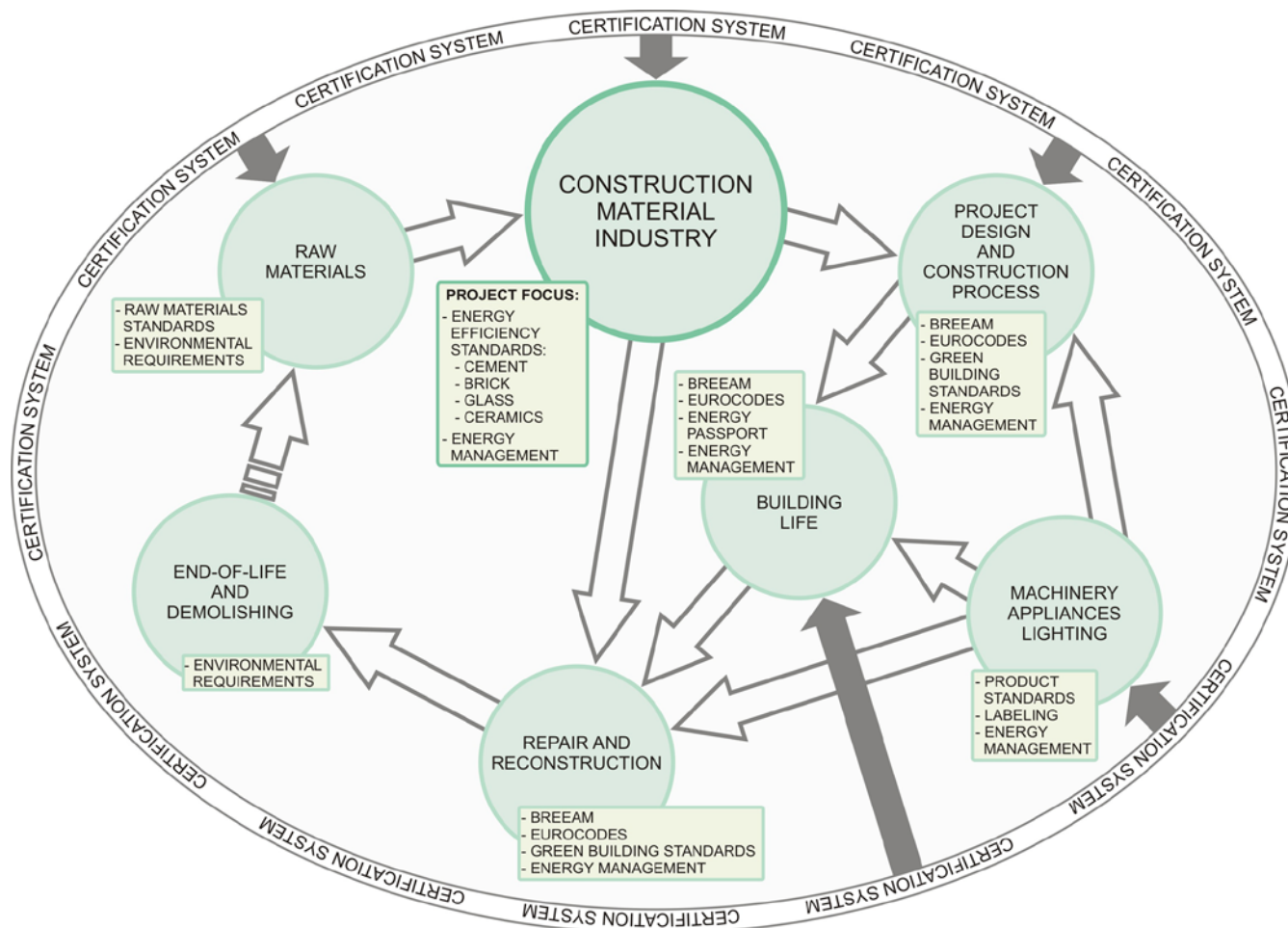
The project participates in and provides support to the following activities

- opportunities for the development of life cycle energy efficiency standardisation and certification based on UK BES 6001 standard, ISO 14000 series and ISO 50001 standard are being discussed with Russian standardisation body Rosstandart and its institutes;

- two draft national energy efficiency standards have been developed for the construction materials industry (in particular, for brick and tiles production) and are being discussed with Russian practitioners;
- Russian enterprises participate in assessing and piloting draft national energy efficiency standards and their finalisation; final drafts will be submitted to Rosstandart Technical Committee preparing national resource saving standards;
- requirements for the assessment of resource and energy efficiency of construction materials industries are being developed for the future use in Russian voluntary certification systems;

- Russian version of UK BES 6001 standard "Responsible Sourcing of Construction Products" prepared for wider dissemination, discussion and practical use;
- training materials on energy efficiency in the construction materials industry, energy management and energy efficiency standardisation and certification are being developed for the future use within the system of Rosstandart as well as at Russian higher school establishments.

The project uses explores approaches and applies standards, guides and reference books on Best Available Techniques prepared, tested and being used in practice in the UK and EC in general.



The following materials prepared by NGO Ecoline or with its participation in 2009-2011 are being considered:

- Practical Guide on Energy Efficiency Improvement www.14000.ru/work/bref/bref_final_full.pdf
- Russian version of BS EN 16001:2009 – Energy management systems – Requirements with guidance for use www.14000.ru/projects/16001/BS-EN-16001-2009-rus.pdf
- Russian versions of Reference Books on Best Available Techniques for Cement, Lime and Ceramic Products Industries www.14000.ru/brefs

Project participants and partners

The project is being implemented with the support and active participation of a wide range of organisations located in several Russian regions:

- The Academy for Standardisation, Metrology and Certification www.asms.ru
- All-Russian Centre for Standardization, Information and Certification of Raw Stuff, Materials and Substances www.vnicismv.ru
- The National Association of Builders (NOSTROY) www.nostroy.ru
- The Department for Natural Resources and Environmental Protection of Moscow www.moseco.ru
- D. Mendeleev University www.muctr.ru
- “Kirov Ceramics” Company www.kzsf.ru
- “Wienerberger Brick” Company www.wienerberger.ru
- “Nefrit Ceramics” Company www.nefrit.ru
- “Ryazan Brick” Company www.ryazanbrick.ru
- The Committee for Natural Resources and Environmental Protection of the Vladimir Regional Administration www.dpp.avo.ru
- The Ministry for Energy and Housing of the Sverdlovsk Regional Government <http://energy.midural.ru>
- The Vladimir Regional Management Unit of the Federal Service for the Surveillance in the Field of Natural Resources www.rpn.avo.ru
- The Federal Centre for the Technogenic Impact Assessment www.fcao.ru
- The Oka Interregional Management Unit of the Federal Service for Environmental, Technical and Nuclear Surveillance www.priok.gosnadzor.ru
- Association of ceramic wall materials producers www.apksmrf.ru

Ecoline

Russian NGO Ecoline is a well-established and sustainable organisation working in the field of environment, energy efficiency and climate change since the early 90s.

Ecoline experts are experienced in developing energy efficiency policies, programmes and practical solutions, preparing and disseminating relevant information materials, involving federal authorities, regional governments and research bodies in public discussions of energy efficiency and environmental plans and programmes.

Since 1997, Ecoline has been promoting modern Management Systems via rendering practical advice to Russian companies, preparing information and training materials and providing training for a wide spectrum of stakeholders. Since 1998, Ecoline has been collaborating with the Rosstandart and its research and training institutions drafting national standards (such as management standards GOST R ISO 14001, GOST R ISO 14050 and technical standards in the field of resource efficiency).

Ecoline has completed a number of successful projects in the field of Energy Efficiency and Climate Change:

- Providing Access of Russian practitioners to the Practical Guide on Energy Efficiency Improvement www.14000.ru/work/bref/bref_final_full.pdf
- Climate Strategies for Russian Megapolises www.russian-city-climate.ru
- Energy Efficient Moscow: One Tonne Less Energy Consumption and GHG Emissions Calculator www.onetonneless.ru
- Promotion of Energy Efficiency Improvement and Greenhouse Gases’ Emissions Reduction in Combustion Plants www.14000.ru/projects/lcp
- Promotion of Energy Efficiency and GHG Emissions Reduction in the Glass Producing Sector in Russia www.14000.ru/projects/glass
- Environmental Impact and Emissions Reduction in the Energy Generation Sector www.14000.ru/projects/power



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www.14000.ru/projects/energy-efficiency