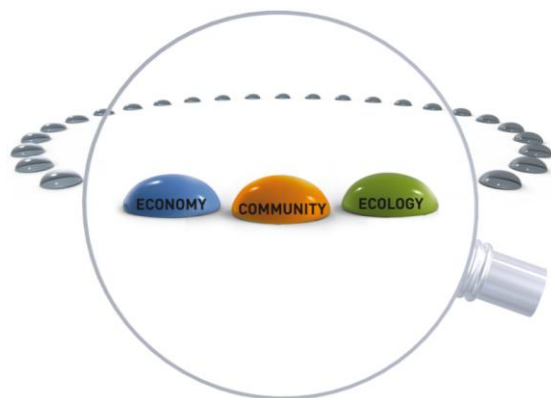
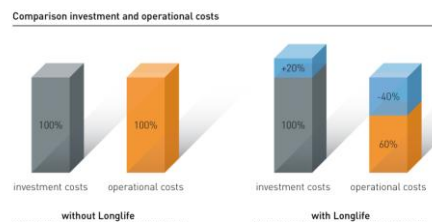


**20 December 2010, TU-Berlin:
Project partners from Denmark, Lithuania, Poland and Germany published with the Longlife 2 report standards, criteria and specifications as benchmarks for energy efficient and resource saving, residential buildings in the Baltic Sea Region**

Enhanced energy performance in new buildings will be achieved through a more integrated approach in the design process using benchmarks for energy efficiency, resource saving, appropriated materials and affordable technologies



Graphic 1:
Longlife focus on economy-society-ecology



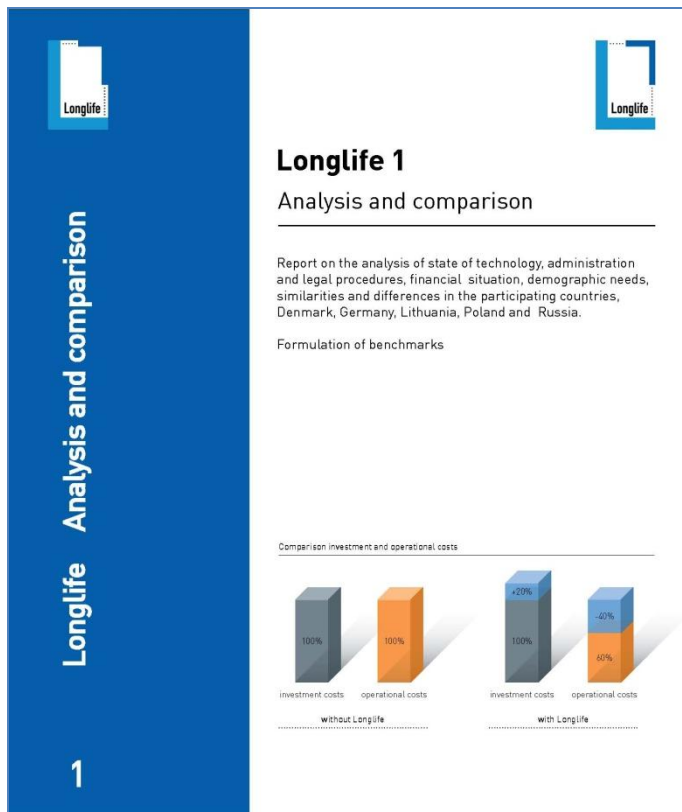
Graphic 2:
Higher quality in design and construction will save energy

Residential buildings use approx. 40% of the produced energy and produce approx. 40% CO2 Emission in Europe. Therefore, the EU is very interested to improve the energy efficiency of residential buildings within the framework of 20-20-20 climate and energy targets. There is a huge potential for real energy efficiency saving in the building sector. If constructed to the latest European requirements, new buildings will consume almost no energy. But now, there are a lot of barriers. New building designed to consume close to zero energy will have higher planning and construction costs. The Longlife project partners are motivated to design an energy-efficient residential building as pioneers and possibly construct before their countries have implemented the EU directive in national right. The Longlife project partners started with an analysis and comparison of existing engineering standards and technologies for building, methods for planning, permit and tendering procedures and project development, project management and project financing models. These results are published in the Longlife 1 report - Analysis and comparison - ISBN 978-3-7983-2213-4. In the next step all Longlife project partners developed standards, criteria and specifications as benchmarks for energy efficient and resource saving residential buildings in the Baltic Sea Region.



As an important step covered to the aimed harmonization of construction standards in the Baltic Sea Region is to be evaluated that all involved countries are agreed on an annual consumption of energy of 40 kWh / m² for heating, ventilation and warm water dressing. The consumption of energy in the existing residential buildings of the involved countries is very different and still higher particularly in Poland, Lithuania and Russia at current considerably. The developed benchmarks also concern the location and the flat sizes. All new buildings should be therefore designed according to their use and location, and with appropriate materials. For example, the south is the proposed common orientation for the living room in the Baltic Sea Region. Now the Longlife project partners use the developed standards, criteria and specifications to design with the integrated approach the energy efficient resource saving residential building as a prototype. The prototype is not a standardized building it is adapted to the specific regional conditions according to the Longlife benchmarks. The standards, criteria and specifications as benchmarks for energy efficient and resource saving residential buildings are published in the Longlife 2 report - ISBN 978-3-7983-2247-9, ISSN 2190-1546.

Longlife 1 report - Analysis and comparison
ISBN 978-3-7983-2213-4



Longlife 1
Analysis and comparison

Report on the analysis of state of technology, administration and legal procedures, financial situation, demographic needs, similarities and differences in the participating countries, Denmark, Germany, Lithuania, Poland and Russia.
Formulation of benchmarks

Comparison investment and operational costs

Scenario	Investment costs	Operational costs
without Longlife	100%	100%
with Longlife	+20%	-60%

Longlife 2 report - Development of standards, criteria, specifications
ISBN 978-3-7983-2247-9
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More information and contact:

Dipl.-Ing. Maria-Ilona Kiefel, Communication Manager
Mobile: +49 171 800 22 61
info@kiefelundpartner.de
info@longlife-world.eu
www.longlife-world.eu

On behalf of:
Prof. Dr.-Ing. Klaus Rückert
Lead Partner Project Longlife
Technische Universität Berlin, A16
Straße des 17. Juni 152
10623 Berlin, Germany