Compendium of best practices on standards and technologies for energy efficiency in buildings in the UNECE region.

Concept description

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UNECE is executing project "Energy Efficiency Standards in Buildings" under the Forests, Land and Housing Division and the Sustainable Energy Division working jointly.

Objectives of the study are to identify best practices on adopting, implementing and enforcing energy efficiency standards and energy efficiency technologies for the building sector in the UNECE region and prepare collection or best practices.
UNECE is going to develop "Compendium of best practices on standards and technologies for energy efficiency in buildings in the UNECE region".

Best practices will be more focused on retrofit of the existing housing stock compared to the new constructions and also include more case studies relating to the residential sector.
Case studies will be organized in different sections

- legislative and regulatory framework,
- management of multi-family housing stock and public buildings;
- awareness raising and behavior change;
- technical measures;
- financial mechanisms.
Report on best practices

Legislative and regulatory framework

Best examples of developed and implemented policies and regulations supporting dissemination and wider integration of energy efficient standards and technologies in the building sector across the member States of UNECE. Case studies shows most efficient approaches to the issues of EE capital repair and new construction. Methods of accumulation and distribution of financial resources for maintenance and capital repair of public and multi-family buildings
Management of multi-family housing stock and public buildings

Best practices of management and maintenance of multi-family housing stock and public buildings showing practical experience of effective buildings operation. Good examples of internal instruction and operation methodologies development for better dissemination of EE approach. Presentation of daily operation practice, from side of utilities companies and management departments of public sector buildings.
Awareness rising and behaviour change

Best examples of initiatives and various incentives promoted by federal or regional government, administration of municipalities, public departments, NGOs or private companies involved in the construction and maintenance of the buildings. Cases may include special training and educational programmes developed for targeted audience of construction professionals, maintenances specialists, inhabitants of residential and users of public buildings.
Technical measures, including smart and affordable technologies and innovation

Best practices of a holistic approach to improvements of energy performance of buildings and their components. The best examples should possibly include all main categories of energy efficiency technologies of the building: insulation and glazing; space heating; air conditioning; water heating and cooling; lighting; energy management systems and other modern EE technologies. A special focus should be given to the implementation and use of smart and/or affordable technologies (including sensors, IoT, etc.) and innovative approaches.
Financial mechanisms

Best examples of efficient mechanisms for supporting EE projects financing.
Financial mechanisms for EE measures stimulated by subsidies, loans, or price changes. Fiscal mechanisms for EE activities financed and/or stimulated by the use of taxes. Delivery mechanisms helping EE activities to be stimulated by the availability of specific assistance or imposition of certain legal obligations and institutional mechanisms, activities developed/managed by public institutions.
Cooperation with UNECE partners

Collection of case-studies, to be included for further evaluation, will be conducted till 10 December 2018.

Please feel free to cooperate with the Project team, in case if you are interested to present your case!
THANK YOU!

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