

ANNUAL IMPLEMENTATION REPORT

Voluntary contributions from the Russian Federation

GENERAL INFORMATION	
Project number and title of the project	E359 - Enhancing national capacities to develop and implement energy efficiency standards for buildings in the UNECE region
Project manager	Oleg Dzioubinski
Project duration as approved	July 2020 - March 2022
Actual project duration	July 2020 - March 2022
Reporting period	January – December 2021
Financial implementation rate (in % of total project budget)	82 % (estimate)
Summary of impact/outcomes	<p>The project implemented most of its activities. A study on gap analysis between the performance objectives set forth in the Framework Guidelines for Energy Efficiency Standards in Buildings and current energy efficiency standards and their implementation in the countries of South-Eastern and Eastern Europe, the Caucasus, Central Asia, and in the Russian Federation has been conducted. The findings and recommendations from this regional study were discussed at the Workshop for stakeholders from the energy and housing sectors to validate the gap analysis on 9 April 2021. Three national studies (in Armenia, Kyrgyzstan and the Republic of Moldova) with a more detailed gap analysis have also been developed. The country-specific recommendations from those studies were discussed at the Workshop for stakeholders from the energy and housing sectors on 20 September 2021. The project established a Collaborative Environment for Experts on Energy Efficiency in Buildings in the UNECE region and updated the network of experts from public and private sectors on energy efficiency in buildings. In October-November 2021, the national training seminars on high-performance energy efficiency standards in buildings were organized in Armenia and Kyrgyzstan. By implementing these activities, the project improved knowledge of policy makers and experts from project countries on energy efficiency standards, their enforcement mechanisms and energy efficient technologies in buildings. Further impact of project activities will be evidenced by conducting an impact discovery on how project countries use and implement best practices and guidelines provided by ECE activities in their national or/and sub-national measures to address the issues of energy efficiency in buildings.</p>
SDGs and targets project contributed	<p>SDG 7 7.3 By 2030, double the global rate of improvement in energy efficiency. 7a. By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote</p>

	<p>investment in energy infrastructure and clean energy technology. SDG 11 11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management. 11c Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials.</p>
<p>REVIEW OF EXPECTED ACCOMPLISHMENTS AND ACTIVITIES AS PER PROJECT DOCUMENT</p> <p><i>(Please make sure the review (i) includes all EAs and activities as per the project document implemented during the review period, (ii) provide information on the venue of workshops/seminars, their dates and the number of participants, including gender-disaggregated, and (iii) state if the activities have been completed or are still incomplete)</i></p>	
Expected Accomplishment 1 (EA1)	Improved knowledge of advanced energy efficiency standards in buildings in the ECE region by ECE member States.
Indicators of Achievements for EA1	<p>IA1. At least 80 participants from three selected countries improved their knowledge of advanced building methods through national training seminars and workshops (evidenced by the event evaluation of participants). Achieved. 230 participants from the project countries, including three focus countries – Armenia, Kyrgyzstan, the Republic of Moldova, participated in the project activities and improved their knowledge of advanced building methods.</p>
<p>Main Activity A.1.1 (Title of Main Activity A1.1, as per the project document)</p>	<p>A1.1. Conducting a gap analysis between the performance objectives set forth in the Framework Guidelines for Energy Efficiency Standards in Buildings and current energy efficiency standards and their implementation in the countries of South-Eastern and Eastern Europe, the Caucasus, Central Asia, and in the Russian Federation. The gap analysis will address barriers to adopting and implementing high-performance standards in housing with a focus on financing energy efficiency measures in and maintenance of multiapartment housing.</p> <p>The activity is completed. The study has been conducted and includes analysis of (i) existing energy efficiency policies, such as framework legislation to develop and implement energy efficiency standards in buildings with emphasis on building energy codes; introduction and implementation of energy performance certification and energy pricing measures; promotion of ESCO; awareness programmes and initiatives to promote energy efficiency; (ii) implementation of energy efficiency standards in new and existing buildings, existence of compliance and enforcement mechanisms, institutional capacity and effectiveness of existing energy efficiency policies. It presents the findings on conformity of the existing energy efficiency standards with the UNECE Framework Guidelines for Energy Efficiency Standards in Buildings; identifies barriers affecting the effective achievement of energy efficiency policies potential; and provides recommendations to help bridging the existing gaps. The study is available at: https://unece.org/sites/default/files/2021-06/Study_on_Gap_Analysis_07.06.2021.pdf The study was discussed and validated at the Workshop on Energy Efficiency Standards in Buildings and their Implementation in the UNECE region, 9 April 2021. The workshop was attended by 68 participants. Workshop webpage: https://unece.org/sustainable-energy/events/online-</p>

	workshop-energy-efficiency-standards-buildings-and-their
<p>Main Activity A.1.2 (Title of Main Activity A1.2, as per the project document)</p>	<p>A1.2. Developing three national studies with a more detailed gap analysis between the performance objectives of the Framework Guidelines for Energy Efficiency Standards in Buildings and implementation of current building energy efficiency standards.</p> <p>The activity is completed. Three national studies with a more detailed gap analysis in Armenia, Kyrgyzstan and the Republic of Moldova have been developed. The national studies analysed the energy performance of buildings, implementation of current building energy efficiency standards in the countries and provided country-specific recommendations on the possibilities to bridge the gap and enhance national capacity to develop and implement energy efficiency standards for buildings.</p> <p>The national study for Armenia is available in English and Russian at: https://unece.org/sed/documents/2021/06/reports/national-study-armenia</p> <p>The national study for Kyrgyzstan is available in English and Russian at: https://unece.org/sed/documents/2021/06/reports/national-study-kyrgyzstan</p> <p>The national study for the Republic of Moldova is available in English and Russian at: https://unece.org/sed/documents/2021/06/reports/national-study-republic-moldova-english-and-russian</p> <p>The national studies were discussed at the Workshop on Regional and National Studies on a Gap Analysis between the Performance Objectives of the Framework Guidelines for Energy Efficiency Standards in Buildings and Implementation of Current Building Energy Efficiency Standards, 20 September 2021. The workshop was attended by 162 participants.</p> <p>Workshop webpage: https://unece.org/sustainable-energy/events/workshop-regional-and-national-studies-gap-analysis-between-performance</p>
Expected Accomplishment 2 (EA2)	Enhanced and up-to-date network of experts from public and private sectors on energy efficiency in buildings in the ECE region.
Indicators of Achievements for EA2	IA2. At least 30 new experts identified and added to an online database of experts on energy efficiency in buildings Achieved. 70 experts have been identified and added to the online database.
<p>Main Activity A.2.1 (Title of Main Activity A2.1, as per the project document)</p>	<p>A2.1. Maintaining and updating the network of experts from public and private sectors on energy efficiency in buildings in the ECE region.</p> <p>The activity is completed. Collaborative Environment for Experts on Energy Efficiency in Buildings in the UNECE region, composed of two products: (i) online database of experts on energy efficiency in buildings, and (ii) online collaborative tool that helps the experts to strengthen their capacities by sharing knowledge and expertise on energy efficiency in buildings, has been established. More than 70 experts from public and private sector on energy efficiency in buildings in the ECE region have been identified and added to an online database of experts. More experts will be identified and added to the database by end of March 2022.</p> <p>The website: https://sedwiki.unece.org/display/SED/EEEEB_db_Home</p>
<p>Main Activity A.2.2 (Title of Main Activity A2.2, as per the project document)</p>	<p>A2.2. Organizing a workshop for stakeholders from the energy and housing sectors to validate the gap analysis.</p> <p>The activity is completed. The main findings and recommendations of a draft study on gap analysis between the performance objectives set forth in the</p>

	<p>Framework Guidelines for Energy Efficiency Standards in Buildings and current energy efficiency standards and their implementation in the countries of South-Eastern and Eastern Europe, the Caucasus, Central Asia, and in the Russian Federation were discussed and validated at the Workshop on Energy Efficiency Standards in Buildings and their Implementation in the UNECE region, 9 April 2021. The workshop was held in English and Russian. It was attended by 68 participants. Workshop webpage: https://unece.org/sustainable-energy/events/online-workshop-energy-efficiency-standards-buildings-and-their</p>
Expected Accomplishment 3 (EA3)	<p>Strengthened capacity of national authorities, building sector professionals, homeowner associations and other relevant stakeholders to develop and implement advanced energy efficiency standards in buildings and introduce energy efficient technologies at the national and sub-national levels.</p>
Indicators of Achievements for EA3	<p>IA3. At least three countries used and implemented best practices and guidelines provided by ECE in their national and/or sub-national measures to address the issues of energy efficiency in buildings (evidenced by the impact discovery).</p> <p>Partially achieved. In progress. Training seminars were conducted in two focus countries of the project. Project workshop was attended by 162 participants from the energy and building sectors. Impact discovery will be conducted in 2022.</p>
Main Activity A.3.1 (Title of Main Activity A3.1, as per the project document)	<p>A3.1. Organizing national training seminars in the three selected UNECE member States on high-performance energy efficiency standards in buildings.</p> <p>The activity is partially completed. The national training seminar on high-performance energy efficiency standards in buildings was conducted in Yerevan, Armenia on 25-26 October 2021. Training webpage: https://unece.org/sustainable-energy/events/national-training-seminar-high-performance-energy-efficiency-standards</p> <p>The national training seminar on high-performance energy efficiency standards in buildings was conducted in Bishkek, Kyrgyzstan on 29-30 November 2021. Training webpage: https://unece.org/sustainable-energy/events/national-training-seminar-high-performance-energy-efficiency-standards-0</p> <p>The national training seminar on high-performance energy efficiency standards in buildings in the Republic of Moldova will be conducted on 20-21 January 2022.</p> <p>The training seminars aimed to (i) improve knowledge of stakeholders on energy management and monitoring, reporting and verification in the buildings sector; (ii) provide information on institutional, organizational and legal aspects of energy management and monitoring, reporting and verification at the global and EU levels; (iii) introduce municipal energy management as a part of the national monitoring, reporting and verification system; (iv) provide energy management information system and examples of energy management system tools; (v) cover energy audits procedure of buildings and multicriteria analysis; as well as (vi) provide best practices of funding possibilities for energy efficiency measures in buildings.</p>
Main Activity A.3.2 (Title of Main Activity A3.2, as per the project document)	<p>A3.2. Organizing a workshop for stakeholders from the energy and housing sectors to discuss and launch the regional and national studies.</p> <p>The activity is completed. The workshop was conducted on 20 September</p>

	<p>2021 online and in Geneva. The workshop was attended by 162 participants. Experts from the following ECE member States participated: Albania, Armenia, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Hungary, Ireland, Italy, Kazakhstan, Kyrgyzstan, Netherlands, North Macedonia, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, Serbia, Slovakia, Spain, Switzerland, Tajikistan, Turkey, Ukraine, United Kingdom, United States, and Uzbekistan. Workshop webpage: https://unece.org/sustainable-energy/events/workshop-regional-and-national-studies-gap-analysis-between-performance</p>
<p>Main Activity A.3.3 (Title of Main Activity A3.3, as per the project document)</p>	<p>A3.3. Conducting an impact study on how member States could better use and implement best practices and guidelines developed by ECE activities in their national or/and sub-national measures to address the issues of energy efficiency in buildings.</p> <p>Implementation of the activity is planned for February-March 2022.</p>

<p>Comments/ additional information</p> <p>Please use this section to provide the donor with information on your plans to ensure full project implementation by the completion date</p> <p>Due to the current Covid-19 pandemic situation, the implementation of some project activities was affected. In particular, organization of a workshop for stakeholders from the energy and housing sectors to validate the gap analysis was conducted online. The training seminars and a workshop for stakeholders were conducted in a hybrid format (with in-person and online participation).</p> <p>The project implemented most of its activities by the end of 2021. The activities remaining for 2022 include (i) organization of a national training seminar on high-performance energy efficiency standards in buildings in Chisinau, the Republic of Moldova on 20-21 January 2022, and (ii) conduct of an impact study on how member States could better use and implement best practices and guidelines developed by ECE activities in their national or/and sub-national measures to address the issues of energy efficiency in buildings (planned for February-March 2022).</p> <p>Further attention should be given to support energy efficiency improvements in the UNECE member States. Energy efficiency, specifically in the building sector, has been assigned a high priority area in climate, energy, and housing strategies in many UNECE member States. Further strengthening of existing building legislation is needed to introduce requirements for near-zero consumption buildings. Providing innovative financial mechanisms and creating attractive conditions for application of energy performance contracting and energy service companies will lead to improvements in energy efficiency. Enhancing the effectiveness of the building sector supply chain should allow improving the complete lifecycle performance of buildings. Further work on development of a strong foundation of best practice methods is needed to improve energy performance of buildings in the UNECE member States.</p>	
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