

FINAL IMPLEMENTATION REPORT

GENERAL INFORMATION	
Project number and title of the project	Promoting the application of high-performance energy efficiency standards in buildings in member States of the Black Sea Economic Cooperation Organization (BSEC) and the United Nations Economic Commission for Europe (UNECE)
Project manager	Oleg Dzioubinski
Project duration	March 2018 – December 2018
Reporting period covered	March 2018 – 31 December 2018
Estimated financial implementation rate (in % of total project budget)	97%
Summary of impact/outcomes	<p>The project was implemented in the framework of activities of the UNECE Joint Task Force (JTF) on Energy Efficiency Standards in Buildings. It provided support for training of policy makers and professionals (including future trainers in their respective countries) on the application of advanced (high-performance) energy efficiency standards, technologies and practices in buildings. The training programme was designed and implemented with the help of highly qualified consultant who developed training materials and conducted training seminar for about 50 selected experts (government officials, representatives of building industry, including from SMEs, academia, architects, and other stakeholders) from 15 UNECE member States (including 10 BSEC countries).</p> <p>The outcome of the project is improved knowledge and enhanced capacity of policy makers and professionals in the building sector on the use of advanced (high-performance) energy efficiency standards, technologies and practices, which would allow increasing energy efficiency of both new and retrofitted buildings in the following countries: Albania, Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Greece, Kyrgyzstan, Republic of Moldova, Romania, Russian Federation, Serbia, Tajikistan, the former Yugoslav Republic of Macedonia, and Uzbekistan.</p> <p>The project was implemented in conjunction with the implementation of two other projects that support the work of JTF: Energy Efficiency Standards in Buildings (funded by the Government of Denmark, managed by the UNECE Housing and Land Management Unit of the Forests, Housing and Land Division) and Enhancing national capacities for development and implementation of the energy efficiency standards in buildings in the UNECE region (funded by the Russian Federation, managed by the UNECE Sustainable Energy Division). This allowed to build training materials on the basis of major outcomes of these two projects: the study “Mapping of existing energy efficiency standards and technologies in buildings in the UNECE region” (completed) and the study “Mapping of existing technologies to enhance energy efficiency in buildings in the UNECE region” (in the last stages of being finalized). The project contributed to creation of online database of experts on energy efficiency in buildings (currently being established), and the study “Compendium of best practices on standards and technologies for energy efficiency in buildings in the UNECE region” (work in progress).</p>
REVIEW OF EXPECTED ACCOMPLISHMENTS AND ACTIVITIES AS PER PROJECT DOCUMENT	
Expected Accomplishment 1 (EA1)	<i>Improved knowledge of experts in BSEC and UNECE member States of the application of high-performance energy efficiency standards in buildings</i>
Main Activity A.1.1 Develop a training course programme on high-performance energy	According to the terms of the project document, UNECE has selected a consultant to develop a training course on the application of high-performance energy efficiency standards, technologies and practices in buildings. The selected consultant is Mr. Vitaly Bekker, energy efficiency expert from the Russian

<p>efficiency standards in buildings in the UNECE region</p>	<p>Federation. The consultant has designed the training course in consultations with UNECE project implementation team and submitted its final version in English and Russian. The training course was sent for review and comments to Co-chair of the UNECE Joint Task Force on Energy Efficiency Standards in Buildings (JTF), Chair of the of the UNECE Group of Experts on Energy Efficiency (GEEE), and several leading experts in the field. Both language versions were posted on the website of the Training Seminar https://www.unece.org/index.php?id=48997 before the start of the seminar. The training course will remain available at the website, can be accessed by interested policy makers, building sector professionals and other stakeholders, and will serve as a basis for future possible capacity building events on the topic to be organized by UNECE. It also can be used without restrictions by other trainers who wish to use materials of the training course for other training and capacity building events. The activity is accomplished.</p>
<p>Main Activity A.1.2 Organize and conduct one 2-3-day training seminar for policy makers and building sector professionals in application of high-performance building standards</p>	<p>The training seminar was jointly organized by the UNECE and JSC "Interstate Corporation for Development" in partnership with the Copenhagen Centre on Energy Efficiency. This allowed to leverage limited funds of the project through in-kind contributions by the partners. The Interstate Corporation for Development provided (as an in-kind contribution) the venue and the facilities (including interpretation and coffee breaks) for the seminar. The Copenhagen Centre on Energy Efficiency provided capacity to organize a live webcast of the event, which has been recorded and will be available soon as a webcast recording. These in-kind contributions allowed to increase the number of supported participants from planned 15 to actual 20. In addition, over 30 participants attended the training seminar without financial support from the project, which underscores the value that the training course and seminar provided. The UNECE secretariat (staff of Sustainable Energy Division and Forests, Housing and Land Division) selected, in consultations with the appropriate authorities of UNECE and BSEC member States, relevant experts to participate in the training, with the aim that the seminar would allow to train future trainers, thus ensuring the multiplying effect of this activity. The selected experts included government officials, building sector professionals, including from SMEs, academia, architects, and other stakeholders. The list of participants is provided in Annex I. Representatives of the UNECE secretariat (from both responsible Divisions) attended the seminar and actively participated in its organization and conduct.</p> <p>The event was held on 5-7 September 2018 in St. Petersburg at the premises of the Interstate Corporation for Development. 55 participants (including 15 (27%) women) from 15 countries took part in the training seminar.</p> <p>Total duration of the seminar was 2.5 days. The agenda of the seminar is attached (Annex II). The working languages of the training seminar were English and Russian with simultaneous interpretation.</p> <p>The training course was presented by UNECE consultant Mr. Vitaly Bekker and his colleague, energy efficiency expert Mr. Andrey Dodonov (no additional cost to the project). In addition to the training course, which comprised the presentation part with extensive practical component – several practical tasks for participants divided into three groups, the training seminar included addresses by Mr. Nikolay Lukichev of the Ministry of Foreign Affairs of the Russian Federation, Mr. Alexandre Gorelik of the Black Sea Project Promotion Facility, Mr. Andrey Gorobtsov of the Interstate Corporation for Development of BSEC, Mr. Oleg Dziubinski of the UNECE Sustainable Energy Division, and Mr. Aleksandar Dukovski, Chair of the UNECE Group of Experts on Energy Efficiency (GEEE) at the opening of the seminar. It also included, on the second and third days of the event, presentations on the topic</p>

of high-performance energy efficiency standards in buildings (including Passive House standard) by Ms. Elena Reyes of the Passive House Institute, Dr. Burkhard Schulze Darup, Co-chair of JTF, Mr. Alexandr Fadeev of the Ministry of Construction and Housing of Russian Federation, Ms. Ksenia Petrichenko of the Copenhagen Centre on Energy Efficiency, and Mr. Oleg Dzioubinski of UNECE.

The survey conducted among participants (Annex III) showed that:

1. The main expected outcome of the project – improved knowledge and enhanced capacity of policy makers and professionals in the building sector on the use of advanced (high-performance) energy efficiency standards, technologies and practices – was achieved as the average rating (from 1 (lowest) to 5 (highest) for the statement “The training seminar has significantly improved my knowledge about high-performance energy efficiency standards in buildings” was 4.3.
2. The training overall and the level of satisfaction with the training methods and clarity of concepts presented by the training facilitator were each rated 4.7 (out of 5) on average.
3. The level of satisfaction with other presentations at the seminar was rated 4.6.
4. There are multiple topics (such as ESCO model, energy management systems, Passive House standard and nearly zero energy building (NZEB) standard) that participants would like to explore in detail.

In view of the project implementation team, this is a high assessment of the success of the event. It is also confirmed by individual conversations with seminar participants.

All participants have received an official Certificate of participation in the Training Seminar.

All Training Seminar materials are posted at: <https://www.unece.org/index.php?id=48997>.

Materials related to the UNECE work on Energy Efficiency in Buildings, particularly under JTF are posted at: <http://www.unece.org/energywelcome/areas-of-work/energy-efficiency/activities/energy-efficiency-in-buildings.html>.

COMMENTS

The project was implemented on a very positive note. This was the first instance of practical collaboration between the UNECE and the BSEC in project implementation. It is a good example of cooperation between two UNECE Divisions and Sub-programmes in implementing three complementary extrabudgetary projects with sources of funding from BSEC and two Governments (Russian Federation and Denmark) and with mutually reinforcing objectives and accomplishments. In addition, following the adoption of the Framework Guidelines on Energy Efficiency Standards in Buildings in 2017, UNECE is working on the High Performance Building Initiative under the Joint Task Force. Within this initiative, UNECE is establishing International Centres of Excellence (the first one in New York: <https://www.unece.org/?id=49372>) and the Global Building Network, a consortium of academic research institutions: <https://www.unece.org/?id=48718>.

Per request of the members of the Joint Task Force, secretariat has been involved in additional fundraising for training activities that would promote and move forward the objectives of this project. Based on the outcomes of the Training Seminar and other activities of the Joint Task Force, secretariat has submitted project proposal “Enhancing national capacities to develop and implement energy efficiency standards for buildings in the UNECE region” for potential funding by the Russian Federation. This project proposal includes as one of the activities National training seminars in four UNECE member States on high-performance energy efficiency standards in buildings, which are

based on the Training Course developed in the course of this BSEC-funded project and, if supported, will be implemented in two or more BSEC member countries. Interest of conducting national training seminars in their countries have been expressed by participants from Armenia, Georgia, Republic of Moldova, and Serbia during the seminar.