



Energy Efficiency Standards and Technologies in Buildings in UNECE Region

Joint events of

the United Nations Economic Commission for Europe (UNECE) and the United Nations Development Programme (UNDP)

14-15 March 2019

Hrazdan hotel Conference Hall

Yerevan, Armenia

Workshop 1: Outcomes of the UNECE project on Energy Efficiency Standards in Buildings

Fifth Meeting of the UNECE Joint Task Force on Energy Efficiency Standards in Buildings

Thursday, 14 March 2019

09:00 – 10:00	Registration
10:00 – 10:15	Opening remarks <ul style="list-style-type: none"> - Mr. Armen Ghularyan, First Deputy Chairman of RA Urban Development Committee - Mr. Dmitry Mariyasin, UNDP Resident Representative (TBC) - Mr. Oleg Dzioubinski, Regional Adviser, Sustainable Energy Division, UNECE
10:15 – 13:00 (Coffee break 11:30 – 11:45)	Session 1: Main findings on energy efficiency standards and existing technologies to enhance energy efficiency in buildings in the UNECE region <i>The session will review the main results of the studies "Mapping of Energy Efficiency Standards in UNECE region" and "Mapping of Existing Technologies to Improve Energy Efficiency in Buildings in the UNECE region".</i> Moderator: Mr. Andres Jaadla , Co-chair of the Joint Task Force on Energy Efficiency Standards in Buildings <ul style="list-style-type: none"> - UNECE representative (TBD), Mapping of Energy Efficiency Standards in UNECE region – main outcomes - Ms. Anna Piwowarska, Mapping of Existing Technologies to Improve Energy Efficiency in Buildings in the UNECE region – main outcomes Moderated discussion with the JTF members on main findings of the studies, their conclusions and recommendations, ways for countries to use them, and on correlation between energy efficiency standards and technology penetration
13:00 – 14:00	Lunch break

14:00 – 15:00	<p>Session 2: Best practices on energy efficiency in buildings</p> <p>Moderator: Mr. Aleksandar Dukovski, Chair of the Group of Experts on Energy Efficiency</p> <ul style="list-style-type: none"> - Mr. Vitaly Bekker, Compendium of best practices on EE in buildings and outcomes of Training Seminar on High-performance energy efficiency standards in buildings in the UNECE Region <p>Moderated discussion with the JTF members on sharing experience in best practices, scaling them up, their applicability in other countries of the region, and the need for training activities to improve knowledge practitioners and policy makers</p>
15:00 – 17:00 (Coffee break 16:00 – 16:15)	<p>Session 3: Network of experts and future plans of JTF</p> <p>Moderator: Mr. Aleksandar Dukovski, Chair of the Group of Experts on Energy Efficiency</p> <ul style="list-style-type: none"> - Ms. Nadejda Khamrakulova, Database of experts on EE in buildings in the UNECE region: main functionalities <p>Discussion on the project’s impact: views from countries and international organizations</p> <ul style="list-style-type: none"> - What are the practical ways for countries to use the outcomes of the UNECE project on Energy Efficiency Standards in Buildings? - How can the recommendations from the studies can be implemented? What are the challenges? - What is the role of international organizations in helping countries implement the recommendations? - How can the network of experts, exchange of existing experience and best practices, and training activities help countries advance energy efficiency in buildings? <p>Panelists:</p> <p>Representatives of UNECE member States and international organizations: TBD (Armenia), Mr. Leonid Danilevski (Belarus), Mr. Andres Jaadla (Estonia), Mr. Nika Tortladze (Georgia), Mr. Nizomiddin Rakhmanov (Uzbekistan), Ms. Biljana Chobanova (Energy Charter Secretariat), and Ms. Giorgia Tzar (Passive House Association).</p> <p>Open discussion</p>
17:00 – 17:30	<p>Wrap-up and Conclusions of Workshop 1</p> <p>Mr. Andres Jaadla, Co-chair of the Joint Task Force on Energy Efficiency Standards in Buildings</p> <p>Mr. Aleksandar Dukovski, Chair of the Group of Experts on Energy Efficiency</p> <p>Mr. Oleg Dzioubinski, Regional Adviser, Sustainable Energy Division, UNECE</p>

Workshop 2: Management, maintenance and energy efficient retrofits of multi-apartment buildings: trends in technologies, practices and legislation

Friday, 15 March 2019

09:00 – 09:30	Registration
09:30 – 09:40	Opening remarks <ul style="list-style-type: none"> - RA Urban Development Committee (TBC) - Mrs. Diana Harutyunyan, Climate Change Programme Coordinator, UNDP
09:40 – 11:20	<p>Moderator: Mr. Oleg Dzioubinski, Regional Adviser, Sustainable Energy Division, UNECE</p> <p>Presentations:</p> <p>Housing reforms and renovation of housing cooperatives in Estonia Mr. Andres Jaadla, Co-chair of the Joint Task Force on Energy Efficiency Standards in Buildings, CEO of EKÜL, Estonia</p> <p>ESCO models for economies in transition – Northern Macedonia case Mr. Aleksandar Dukovski, Senior Energy Expert and Chair of the UNECE Group of Experts on Energy Efficiency, the Republic of Northern Macedonia</p> <p>Passive House for Armenia: Retrofitting solutions for multi-family apartment and public buildings Ms. Giorgia Tzar, International Communications, International Passive House Association (iPHA), Passive House Institute</p> <p>Determination of thermo-technical characteristics of an operable building with a goal of energy efficiency classification Mr. Leonid Danilevski, Deputy Director, Republic Unitary Enterprise "Institute of Housing NIPTIS named after S. Ataev", Belarus</p> <p>MRV for buildings in Armenia: what has been done, steps ahead Mr. Tigran Sekoyan, Senior Expert on Energy / Energy Efficiency, "De-risking and Scaling-up Investment in Energy Efficient Building Retrofits" UNDP-GCF</p>
11:20 – 11:30	Q&A
11:30 – 12:00	Coffee break

Development of a Guidance for Municipal Energy Management and Information System implementation

Technical Round Table Discussion.

12:00 – 12:15	<p>Opening remarks</p> <p>Mrs. Diana Harutyunyan, Climate Change Programme Coordinator, UNDP</p>
12:15 – 13:00	<p>Presentation of the guidance concept framework and main componenets.</p> <p>Mr. Andrey Dodonov and Mr. Vitaly Bekker, Consultants on Municipal Energy Management and Information System implementation/Russia-UNDP Trust Fund for Development</p>
13:00 - 13:45	<p>Discussion of Guidance specific components design:</p> <ul style="list-style-type: none"> a. Definition and role of municipal energy management; b. Definitions of normalized and normative energy consumption; c. Methodology of ENMS implementation. Administrative and technical aspects; d. Calculations of the HDD or CDD related to specific location and using real measurements of the outside temperature e. Possible ways of implemented system use for development of EE investments plans; f. Smart-metering system schemes and technical solutions; g. Practical specifics of EMIS operation.
13:45 - 14:00	<p>Wrap-up and conclusion</p>
14:00 – 15:00	<p>Lunch break</p>