

# Committee on Sustainable Energy

## Energy efficiency activities in 2016-2017



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# Group of Experts on Energy Efficiency:

## Main activities

- A. Exchange of know-how and best practices in selected economic sectors on how to significantly improve energy efficiency in the UNECE region
- B. Exchange of know-how and best practices on the role of standards and guidelines to significantly improve energy efficiency in the UNECE region
- C. Exchange of approaches and best practices for utilities and energy services companies to improve energy efficiency in the UNECE region, including quality of service regulation
- D. Regulatory and policy dialogue addressing barriers to improve energy efficiency
- E. Facilitate engagement in the Global Energy Efficiency Accelerator Platform



# Topics for a Joint Task Force on Energy Efficiency Standards in Buildings

Joint Task Force on Energy Efficiency Standards in Buildings with participation of the UNECE Working Party on Regulatory Cooperation and Standardization Policies and other relevant stakeholders

- Overview on standards for energy efficiency in buildings
- Overview on existing and forthcoming technologies for energy efficiency in buildings
- Online database of experts
- Increasing public awareness
- Strategy and roadmap for future UNECE activities
- Step towards reaching energy efficiency goals amongst the UNECE region
- Step forward the harmonization of markets and standards



# Principles-based Performance Standard (1)

ECE/ENERGY/GE.6/2016/5

- Outcome-based (i.e., anchored in energy actually consumed) and designed to project a vision of holistically designed and operated, ultra-high performance buildings as part of an integrated sustainable energy system
- Conceptions of power generation and grid design necessary to complement buildings in a post-carbon strategy: Distributed generation, Combined Heat and Power, renewable energy etc.
- Broad and inclusive
- Guidance to architects, civil engineers, construction companies, and investors on the full range of factors that need to be addressed



# Principles-based Performance Standard (2)

**ECE/ENERGY/GE.6/2016/5**

1. Type of building usage, shelter
2. Internal temperature and air quality (heating, cooling, ventilation)
3. Lighting
4. Refrigeration
5. Ergonomics (space management and people movement, e.g. elevators, escalators)
6. Water management
7. Other products/supplies/vehicles
8. Monitoring and reporting on progress and results



# Cross-cutting Activities and Coordination (1)

## 25<sup>th</sup> Committee on Energy for Sustainable Development

- 28-30 September 2016, Geneva
- Meeting the energy-related Sustainable Development goals
- Pathways to Sustainable Energy in the UNECE region
- Nexus

## 7<sup>th</sup> International Forum on Energy for Sustainable Development

- 18-21 October 2016, Baku, Azerbaijan
- Partners: Government of Azerbaijan, 5 United Nations Regional Commissions, IEA, IRENA, UNDP, UNIDO, C2E2, REN21
- Link: <http://www.unece.org/energy.html>
- Development of internationally recognized minimum energy performance standards.



# Cross-cutting Activities and Coordination (2)

## 3<sup>rd</sup> session of the Group of Experts on Energy Efficiency

- 18-19 October 2016, Baku, Azerbaijan

## 8<sup>th</sup> International Forum on Energy for Sustainable Development

- 11-14 June 2017, Astana, Kazakhstan
- Partners: Government of Kazakhstan, 5 United Nations Regional Commissions, SE4All, World Bank Group, others invited
- 11 June 2017: Energy Ministerial with outcome document (ECE/ENERGY/2016/9)
- Consultation process

