



EE Standards in Buildings and RE Standards Options



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Environmental impact of buildings

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In the developed world, buildings are responsible for:

- consuming over **70%** of the **electrical power generated**
- consuming **40%** of **primary energy**
- **40%** of **CO₂ emissions** from combustion



- Developing countries will need to accommodate **2.4 billion** new urban residents by **2050**

Joint Task Force on EE Standards in Buildings: Activities

Committee on Sustainable Energy and the Committee on Housing and Land Management

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- a) Mapping energy efficiency standards in buildings and preparing gap analyses
- b) Evaluating options for the development, adoption or promotion of energy efficiency standards in buildings
- c) Preparing guidance materials
- d) Promoting partnerships with other international organizations
- e) Establishing a network of experts on ee in buildings
- f) Developing and organizing training programmes



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Framework guidelines for EE standards in buildings

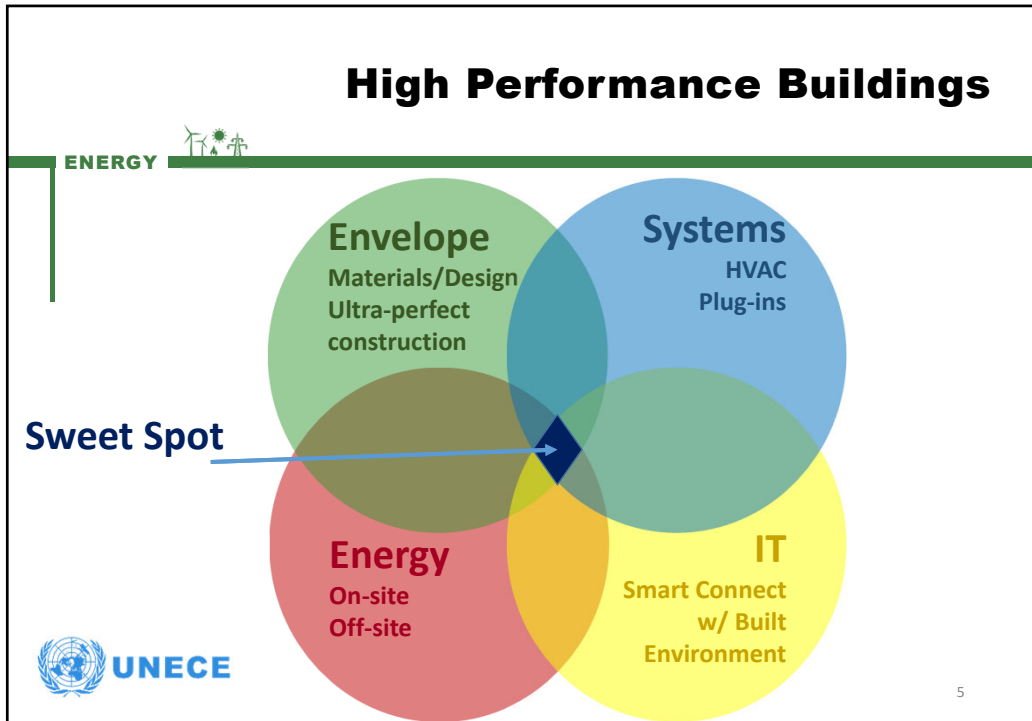
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A holistic, systems approach to building design, delivery, and operation




Energy required by buildings can be supplied largely, perhaps exclusively, by *non-carbon-based energy*

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Performance Javelin Throw

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UNECE's Framework Guidelines on Energy Efficiency Standards in Buildings can be found on our website at:

<https://www.unece.org/index.php?id=45864>

 **UNECE**

UNECE Group of Experts on Renewable Energy (GERE)

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The GERE started in 2014 as a subsidiary body to the Committee on Sustainable Energy and aims to:

- Determine the status of RE development and tracking its progress in the UNECE region
- Facilitate policy dialogue, exchange of best practices and data
- Consider the role of renewable energy within the context of future energy systems
- Promote instruments for assessing renewable energy resources and support possible cross-sectoral synergies
- Identify needs, key bottlenecks and opportunities for potential investment



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Renewable Energy Certification and Standards

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The Committee on Sustainable Energy (28th Session, 25-28 September 2019) requested GERE to explore interest among its constituency initiate a process for:

- Sustainability certification/standards of solid biofuels
- Technical standards for feeding hydrogen, bioenergy into the gas grid based on successfully implemented examples





Thank you!

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