



***Innovation for sustainable
buildings: Energy efficiency
as part of their whole life
cycle***

***European Parliament
Brussels, 21 March 2019***

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Climate and Energy Framework

Climate-Energy Framework 2030

40% GHG reductions

- **32% Renewable Energy**
- **32.5% Improving energy efficiency**

2030

2050

Climate-Energy Framework 2020

[COM(2010)639]

- **20% GHG reductions**
- **20% Renewable Energy**
- **20% Improving energy efficiency**

2020

A Clean Planet for all

A European strategic
long term vision for a
prosperous, modern,
competitive and
climate neutral
economy



Main features revised Energy Performance of Buildings Directive

- **Supportive of building renovation-** *linking policy and financing to results, and strengthening long term renovation strategies for **decarbonisation** by 2050*
- **Smart-** *supporting ICT and modern building technologies, building automation, e-mobility infrastructure, and a Smart readiness indicator*
- **Simple-** *streamlining outdated provisions*

Exploring innovative financing tools

- ✓ **Green municipal bonds**
- ✓ **Earmarking environmental or energy taxes**
- ✓ **Energy performance contracting**
- ✓ **Renewable energy communities and local energy cooperatives**
- ✓ **Soft loans for home renovation works**
- ✓ **On-tax financing**
- ✓ **Third-party investment**
- ✓ **On-bill financing**
- ✓ **Crowdfunding**

file:///C:/Users/REYGAPA/AppData/Local/Packages/Microsoft.MicrosoftEdge_8wekyb3d8bbwe/TempState/Downloads/Innovative%20Financing%20Schemes%20-%20EUCoM.pdf

Some challenges moving ahead

Better addressing worst performing segments of national building stocks, and keeping ambition of nearly zero-energy buildings under check

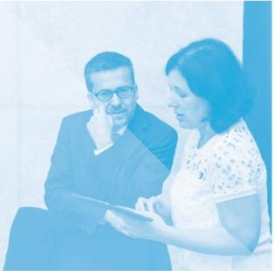
Accessibility and comfort aspects increasingly important due to demographics i.e. aging population

- *Wider solutions that address environmental impacts*
- *Digital solutions at the service of building users*
- *Holistic approach within building boundaries- integrating design, use and operation, construction and demolition*
- *Holistic approach beyond the individual building- integration of the building and the district/neighbourhood/urban context*



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Thank you!

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