



Energy Efficiency Directive

Main outcomes of the revision

The way to 2030

- A **new energy efficiency target** for the EU for 2030 of **32.5%**, with an upwards revision clause by 2023
- Extended **energy savings obligation** to achieve new annual energy savings of at least 0.8% (of final energy consumption) for the next period 2021-2030 and beyond, coming from new energy efficiency renovations or other measures in end-use sectors (11% more ambitious than in the current period).
 - Exception for MT and CY: 0.24%
- Strengthened rules on individual **metering and billing** of thermal energy (better information for consumers)

https://ec.europa.eu/energy/en/topics/energy-efficiency/energy-efficiency-directive



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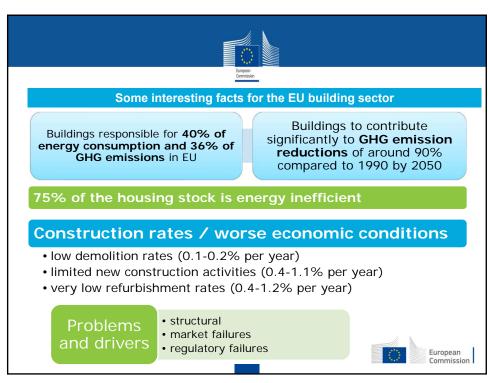


Regulation on the Governance of the Energy Union and Climate Action

- The governance mechanism is based on integrated national energy and climate plans (NECPs) covering
 - · the five dimensions of the Energy Union
 - ten-year periods starting from 2021 to 2030
 - EU and national long-term strategies
 - integrated reporting, monitoring and data publication.
 - Wide public consultation

https://ec.europa.eu/energy/en/topics/energy-strategy-and-energy-union/governance-energy-union/national-energy-climate-plans







- Stronger long term renovation strategies for Member States, aiming at decarbonisation by 2050 and with a solid financial component
- An optional Smart Readiness Indicator for buildings
- Targeted support to electromobility infrastructure deployment in buildings' car parks
- Enhanced transparency of national building energy performance calculation methodologies
- Reinforcement of building automation: additional requirements on room temperature level controls, building automation and controls and enhanced consideration of typical operating conditions

European



Long-term renovation strategies (Article 2a)



Requirement for Member States to establish comprehensive strategies aiming at a highly efficient and **decarbonised building stock** by **2050** and at a cost-effective transformation of existing buildings into **nearly zero-energy buildings**

- More elements to be considered: **energy poverty**, market failures and barriers, split incentives, necessary skills, health and safety issues, wider benefits
- Set up a **roadmap** with measures, **measurable** progress indicators and indicative milestones for **2030**, **2040** and **2050**
- Carry out a public consultation
- Financial component: facilitate access to appropriate mechanisms (effective use of public funding; aggregation; de-risking)

https://ec.europa.eu/energy/en/topics/energy-efficiency/energy-performance-of-buildings/long-term-renovation-strategies



European

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Smart Readiness Indicator - SRI (Article 8, Annex Ia)



New article advocates the introduction of an **optional** common Union scheme for rating the smart readiness of buildings

- · Will characterize the ability of a building to manage itself,
- · To interact with its occupants,
- And to take part in demand response and contribute to smooth, safe and optimal operation of connected energy assets
- The SRI will be established through two legal acts: **delegated act** for the definition and calculation methodology; **implementing act** for the technical modalities of implementation. By 31 Dec. 2019
- Motivation: recognition of progress towards smart building systems and their added value for building users, energy consumers and energy grids

https://smartreadinessindicator.eu/



European Commission



Electro-mobility (Article 8)

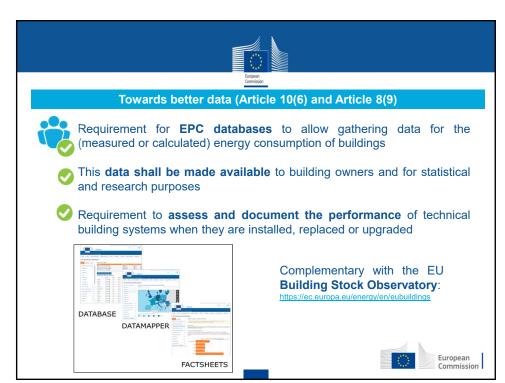


By **2025**, Member States will set **requirements** for a **minimum number of charging points** in **all** non-residential buildings with more than 20 parking spaces

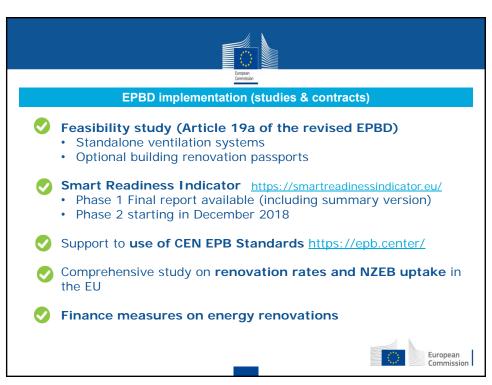
- Simplification of the deployment of recharging points (including with permitting procedure)
- Requirement on the deployment of **ducting infrastructure** in new and major renovations of buildings of with more than 10 parking spaces
 - 1 in every 5 parking spaces for non-residential buildings
 - · Every parking space in residential buildings
- 1 charging point per building for new and major renovation of nonresidential buildings with more than 10 parking spaces
- Targeted **exemptions** (e.g. for SMEs)

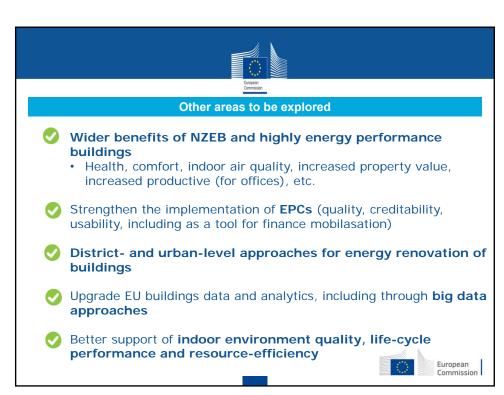


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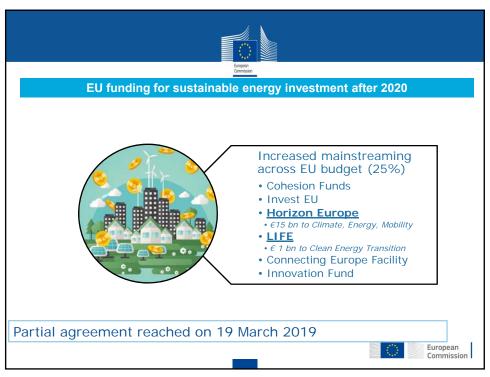


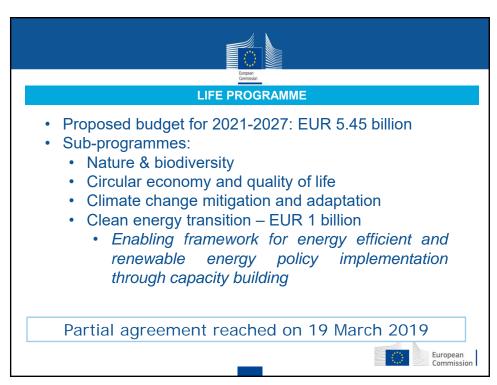


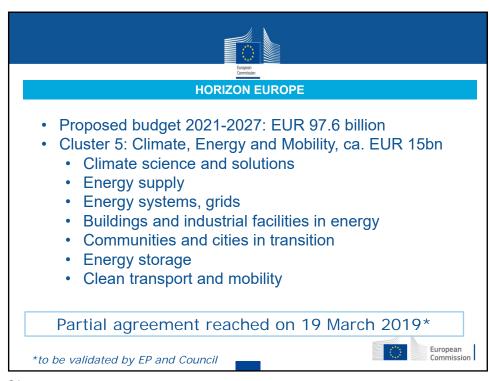
















Horizon 2020: Buildings in energy transition

1st Deadline: 15 January 2020

- B4E-1-2020: Towards highly energy efficient and decarbonised buildings B4E-5-2020: Integrated design concepts for energy-efficient ICT in buildings
- B4E-6-2020: Big data for buildings
- B4E-7-2020: European building stock data 4.0
- B4E-8-2020: Renewable and energy efficient solutions for heating and/or cooling, and DHW production in multi-apartment residential buildings
- B4E-9-2020: Support to the coordination of European smart buildings innovation community
- B4E-10-2020: Self-assessment and self-optimisation of buildings and appliances for a better energy performance



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Horizon 2020: Buildings in energy transition

2nd Deadline: 10 September 2020

- B4E-2-2020: Stimulating demand for sustainable energy skills in the building sector
- B4E-3-2020: Upgrading smartness of existing buildings through innovations for legacy equipment
- B4E-4-2020: Next-generation of Energy Performance Assessment and Certification
- B4E-14-2020: Enabling next-generation of smart energy services valorising energy efficiency and flexibility at demand-side



