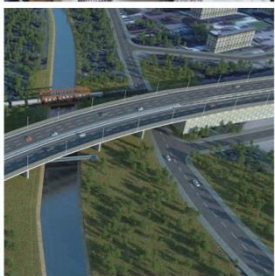
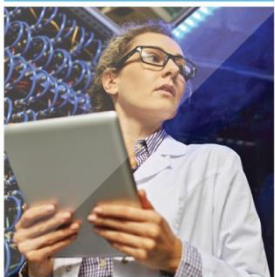




European
Commission



Clean Energy for All Europeans: a focus on building smartness

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WHAT ARE OUR GOALS?

CREATING JOBS & GROWTH, BRINGING DOWN GREENHOUSE GAS EMISSIONS, SECURING ENERGY SUPPLY



Putting energy efficiency first



Demonstrating global leadership in renewables



Delivering a fair deal for consumers

HOW DO WE GET THERE?

THE RIGHT REGULATORY FRAMEWORK FOR POST – 2020

" In essence the new package is about tapping our green growth potential across the board"

Commissioner Miguel Arias Cañete (2016)



A CONSUMER-CENTRIC STRATEGY

A FAIR DEAL FOR CONSUMERS



BETTER INFORMED

- Access to fit-for-purpose smart meters
- Certified price comparison tool
- Clearer energy bills



EMPOWERED

- Entitle individuals and communities to generate electricity and to consume, store or sell it back to the market
- Easier switching conditions
- Reward demand-response



PROTECTED

- Monitoring of energy poverty (governance)
- Information on alternatives to disconnection
- Secured electricity supplies
- Sound data management

ENERGY EFFICIENCY

ACHIEVING THE BINDING 30% ENERGY EFFICIENCY TARGET BY 2030



Energy Efficiency Directive

- Binding 30% energy efficiency target for 2030;
- Create 400,000 new jobs;
- Reduce gas imports by 12%;
- Save € 70 billion in fossil fuel imports;
- Empower consumers by granting access to information on their energy consumption.



Energy Performance of Buildings

- Clear vision for a decarbonised building stock by 2050;
- Smart & Efficient buildings through use of Information and Communication Technologies and Smart Technologies;
- Smart Finance for Smart Buildings initiative:
 - More effective use of public funding
 - Aggregation of funds
 - De-risking
- Protect vulnerable groups & address energy poverty.



Ecodesign Working Plan 2016-2019

- List of new product groups;
- Outline on how ecodesign will contribute to circular economy objectives;
- Specific measures on air conditioning;
- Guidelines on voluntary agreements.

THE EPBD – TOWARDS 2030

FACTS AND RATIONALE



75% of the housing stock is energy inefficient, missing the benefits of increased renovation.



Renovation rates are too low and renovation depth is too shallow.



Need to accelerate and finance building renovation investments and leverage smart technologies.

Towards a **simpler, smarter** and **more supportive** Energy Performance of Buildings Directive.

RENOVATION STRATEGIES AND FINANCING

A SUPPORTIVE FRAMEWORK



Long term building renovation strategies (Article 2a):

- ✓ Provisions on long-term strategies in Article 4 of Directive 2012/27/EU (EED) in the EPBD moved in a new article 2a.
- ✓ Completed by 2 new paragraphs:
Vision of a decarbonised building stock by 2050;
Smart Finance for Smart Buildings approach to mobilisation of investment.
- ✓ Linking financial measures for energy efficiency renovation to energy performance certification (Article 10).

SMARTNESS MATTERS

RATIONALE



Acknowledging and leveraging building smartness in the Energy Performance of Buildings Directive

- ✓ Modern nearly zero-energy buildings are in essence smart, flexible buildings.
- ✓ Building smartness is beneficial:
 - Leads in itself to significant energy savings in a cost-effective way.
 - Improves comfort.
- ✓ Smart buildings are key enablers of our future energy system
 - Larger share of renewables,
 - Distributed supply,
 - Adaptive demand-side.

TECHNICAL BUILDING SYSTEMS

EXTENDING THE SCOPE



An updated definition of Technical Building Systems (TBS) and additional provisions to better documenting the initial performance of technical building systems and maintain their operational performance over time.

- ✔ Extending the scope of TBS to building automation and control, on-site electricity generation, on-site infrastructure for electromobility (Article 2(3)).
- ✔ System requirements for new, replaced and upgraded TBS (article 8(1)) and documentation of overall energy performance following installation, replacement or upgrade (Article 8(5)).
- ✔ Electronic monitoring as an alternative to inspections for heating and cooling.

ELECTRO-MOBILITY

TARGETED AND IMPACTFUL MEASURES



Additional provisions to support the deployment of the EU infrastructure for electro-mobility.



Installation of recharging points (at least 1 every 10 parking spaces) in non-residential buildings with more than 10 parking spaces. The provision applies to new buildings and buildings undergoing major renovation, plus, from 2025, to all non-residential buildings (Article 8(2))



Pre-cabing of every parking space in new or major renovation of residential buildings with more than 10 parking spaces (Article 8(3))



Some exemptions for buildings already covered by the current legislation and of buildings owned and used by SMEs (article 8(4))

SMARTNESS INDICATOR

RAISING AWARENESS



New article 8(6) advocates the definition of a Smartness Indicator (SI) for 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.



Progress towards ‘smarter’ building systems can support a more efficient implementation of the EPBD and result in additional benefits for building users, energy consumers and future grids.



The SI will support the uptake of technical innovation in the building sector, where there is a lack of investment despite short payback periods.



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THANK YOU!

<https://ec.europa.eu/energy/en/topics/energy-efficiency/buildings>

