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EU targets and the challenges for the public sector in the energy field



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AGENDA

Current situation

Clean Energy for
All Europeans
package

Package goals

EPBD updates

Implementation
in member states



- The EU is in the process of updating its energy policy framework in a way that will facilitate the clean energy transition and make it fit for the 21st century.
- So called „the Clean Energy for All Europeans package“
- The package contains 8 legislative proposals, 4 of which directly concern energy efficiency:
 - Energy Performance in Buildings Directive
 - Renewable Energy Directive
 - Energy Efficiency Directive
 - Governance Regulation



- Package goals:
 - emission reductions
 - energy efficiency target of at least 32.5%
 - renewable energy target of at least 32%

	Strategy 2020	Target 2030	Paris Protocol
emission reductions	20% compared to 1990	40% compared to 1990	80-95% compared to 1990
energy efficiency	20% (whole EU)	32,5%	
renewable energy	20% (whole EU)	32%	



- Directive (EU) 2018/844 of the European Parliament amending Directive 2010/31/EU on the energy performance of buildings and Directive 2012/27/EU on energy efficiency
- Updates long term strategy for buildings - well known as EPBD
- Contents:
 - Identification the cost of effective recovery approaches
 - Policies and measures to promote cost-effective in-depth refurbishments
 - Special focus on the worst segments of the building stock
 - Policies and measures for public buildings
 - Overview of smart building measures, interconnected buildings, skills and education in construction and energy efficiency
 - A sound estimate of savings and positive impacts on health, safety and air quality



Article 8:

- Member states will set system requirements to optimize the use of HVAC
 - Energy efficiency, proper installation, adequate dimensioning, setting and regulation of HVAC in existing buildings
- MS require for new buildings
 - If it is technically and economically feasible equipping with self-regulating devices to individually control temperature in each room or, in justified cases, part of a building unit



Article 8:

- New and significantly renewed non-residential buildings with more than 10 parking sites
 - Installing a single charging station a
 - Installation of electrical infrastructure at one of five locations if the car park is in the building or in the immediate vicinity of the building and parking or electricity is being restored
- By 1.1.2025 MSs will set requirements for installing a minimum number of charging stations for all non-residential buildings with more than 20 parking spaces



Article 8:

- Member States shall ensure that, when installing, replacing or upgrading a building's technical system, the overall energy performance of the changed part is assessed and, if necessary, the whole changed system.
- New category: The degree of smart building readiness
 - Delegated act until 31.12.2019
 - MS should define Smart Readiness Indicator
 - Methods of calculation
 - Implementation Act to 31.12.2019
 - Technical procedures for implementation
 - Test phase schedule
 - Relation to energy certificates



Article 10:

- Obligation to link financial measures to improve energy efficiency in restoring an energy saving building according to
- Other methods demonstrating energy efficiency Database of energy certificates
 - allows data collection on measured or calculated energy consumption
- Summary anonymized data will be made available on request
 - for statistical and research purposes
 - to the owner of the building



- Good intentions but not so good results
- Many buildings are energy efficient only on paper
- Energy certification and energy audits of poor quality
- Poor communication of EU intentions
- Example: Swedish implementation - lower goals but measuring the actual efficiency
- Very strict demands on building envelope, but fx. energy management is neglected
- Degree of smart building readiness:
 - Positive step forward
 - MS are forced to take more complex approach in building evaluation





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