

Energy Performanceof Buildings Directive

Policy update related to EPCs

24/05/2023

Vivian Dorizas Hélène Sibileau

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Final conference





BUILDINGS PERFORMANCE INSTITUTE EUROPE

Who we are, what we do



EUROPEAN NON-PROFIT THINK-TANK



POLICY ADVICE
ON BUILDING
REGULATION,
FROM DESIGN TO
IMPLEMENTATION



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INDEPENDENT RESEARCH AND ANALYSIS



IMPROVING THE ENERGY
PERFORMANCE
OF BUILDINGS
ACROSS EUROPE

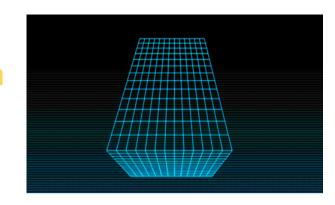


IN OPERATION SINCE 2010





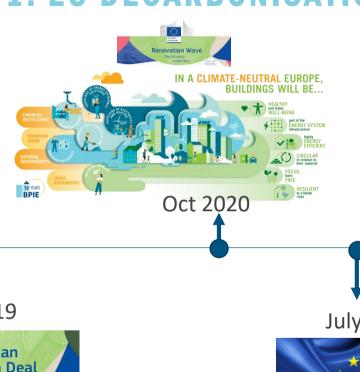
Structure of the presentation



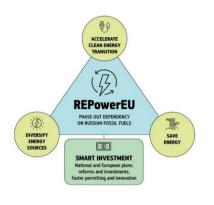
- 1. Decarbonisation goals
- 2. Energy Performance of Buildings Directive: Process update
- 3. Energy Performance of Buildings Directive: Content update, assessment of provisions relevant to the Next Gen EPCs
- 4. Potential implications



1. EU DECARBONISATION GOALS







Spring 2022

Cut GHG by at least 55% by 2030

Dec 2019



July 2021

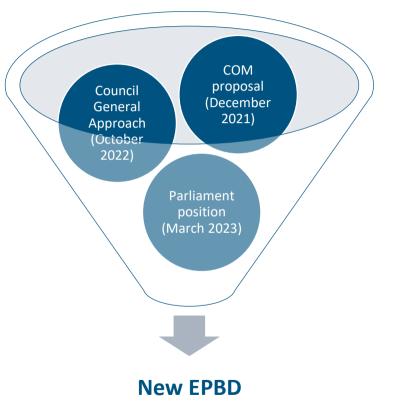


-60% GHG emissions3% annual deep renovation rate70% of renovations to be deep





2. EPBD state of play: process update









2. EPBD state of play - Process update

- Start of trilogues negotiations
 Swedish Council Presidency
 - June 2023

October-November 2023

- Political deal?
- Spanish Council Presidency

 New EPBD published in Official Journal of the EU?

First half 2024

End 2025-early 2026

 EPBD must be transposed in Member States, start of implementation





Relevant provisions for Next Gen EPC cluster

- Energy Performance Certificates (EPCs)
- 2. Renovation Passports (RP)
- Minimum Energy Performance Standards (MEPS)
- 4. Deep renovation
- 5. Whole Life Carbon (WLC)







3. EPBD Content update - EPCs

Brings back validity from 5 to 10 years

	COUNCIL	PARLIAMENT
Timeline	Reform pushed to EPCs issued as of 2027	Reform pushed to EPCs issued as of 2026
EPC classes	 Creates A+ (positive energy buildings) and A₀ (ZEB) G = worst performing buildings, scope/number to defined nationally A to G: no even bandwidth distribution between ranges 	 Creation of A+ (energy needs <15 kWh/m²/y, production of more RES on site, carbon positivity re: life-cycle GWP) G = 15% worst performing buildings at national level B to F: even bandwidth distribution between ranges
Issuing EPCs	- "Virtual site visit" possible	- On-site visit (by independent expert)

Validity 10 years for EPC A+, A, B, C

(others: 5)



BPIE	Content update - Renovation Passport	
	COUNCIL	PARLIAMEN
Definition	Document that provides a tailored roadmap for the	Document that provides a tailo

renovation of a building in several steps that will significantly improve its energy performance

ored roadmap for the deep renovation of a specific building in a

Timeline

MS must introduce scheme by end 2025 Explicit "voluntary use by building owners" maximum number of steps that will transform the building into a ZEB by 2050 latest

MS must introduce scheme by end 2024 MS shall ensure RP rollout is financially

Links

Allows integration of RP into EPC schemes

supported Facilitates integration into Digital Building Logbook Can be issued after "virtual on-site visit"

Issued by a qualified and certified expert after an on-site visit Estimated costs of one-step deep renovation =

reference scenario

24/05/2023

Quality



BPIE Content update - MEPS for non-residential

	COUNCIL	PARLIAMENT
Scope	Non-residential	Public buildings (owned) and non-residential
Approach	Phasing out worst performing buildings at certain dates, based on thresholds in primary energy use (kWh/m²/y), with flexibility	Phasing out worst performing buildings at certain dates, based on EPC classes
Ambition and dates	Phase out of 15% worst performing by 2030 and 25% (cumulative) by 2034	At least class E as of 2027 and at least class D as of 2030
Exemptions	Exemption of certain buildings possible based on "unfavourable cost-benefit assessment"	No exemption



COUNCIL

Content update - MEPS residential

Approach	- Trajectory approach at segment level, with milestones	 Phasing out worst performing buildings at certain dates, based on EPC classes (similar to architecture proposed by COM)
Ambition and dates	 MS to establish trajectory as of 2025 in line with ZEB stock 2050 = decrease of average primary energy use Residential segment to reach on average equivalent EPC class D by 2033 and nationally defined milestone by 2040 	 At least E as of 2030 and D as of 2033 Linear trajectory for achievement of higher classes by 2040 and 2050 MS shall establish MEPS for all other buildings at national level and introduce social safeguards
Exemptions	 Single Family Homes After 2028 Achieve at least class D within 5 years of trigger point (sold, rented, donated, re-purposed) 	 Exemption: publicly owned social housing + heritage buildings Adjustment of MEPS for economic/technical feasibility + availability of skilled workforce Exemption and adjustment: max 22% of residential buildings

PARLIAMENT

in G, F, E & only until end of 2036



BPIE Content update - Deep renovation

	COUNCIL	PARLIAMENT
Definition	- Renovation to NZEB before 2030 and to ZEB as of 2030	- Renovation to NZEB before 2027 and ZEB as of 2027
	 Same as in COM proposal, but changed considerably ZEB definition + thresholds to be set at national level for renovated ZEB (NBRP) 	 Additional info in definition: in line with EE1 principle and efforts to reduce whole life-cycle GHG emissions, focuses on essential building items [list], or a renovation reducing at least 60% primary energy demand for WPB for which ZEB is technically/economically not feasible = energy performance thresholds in Annex III (60-90 kWh/m²/y)
Worst Performing Buildings	-to be defined at national level (NBRP)	- E, F, G





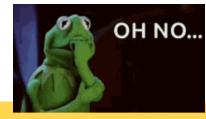
• 3. **EPBD** BPIE Content update- WLC

	COUNCIL	PARLIAMENT
•	New construction to disclose WLC on EPCs as of 1 January 2030 (2027 for buildings over 2000m2	Lifecycle emissions should progressively be taken into account, in line with a Union methodology to be established by the Commission, starting with new , then renovated buildings, for which Member States should establish whole lifecycle greenhouse gas emission reduction targets .
•	No provisions for renovations Annex 3 – calculation methodology with reference to EN15798, Level(s) and CPR	 NBRP with national WLC targets for 2025, 2030, 2035, 2040 Delegated act by 2025 for the COM to set out WLC methodology Disclosure requirements for all new buildings as of 2027 and limit values as of 2030 considering incremental tightening Existing buildings undergoing major renovations to disclose WLC of building parts Renovation Roadmaps to outline measures to reduce WLC





Potential implications



Relevant dimension for Next Gen EPCs	
Building renovation passports	 Implementation date (end 2024/2025) Issued after "virtual on site visit"? Financial support and integration into DBL?
Updates for EPCs	 Bandwidth EPCs (A+, Ao) and date EPC reform EPC issuance Validity (5-10 years)
Deep Renovation definition	 Deep renovation = ZEB in 2027 or 2030 Definition WPB – national or EU level Inclusion WLC
Minimum energy performance standards	 NR - Scope regulation (EPC classes or % WPB) NR - Exemptions
	 R - Compliance deadlines and ambition of performance standard R - Exemptions
Whole Life Carbon (on EPC)	 WLC to be disclosed on EPCs WLC gradually applied to renovations (methodology to be established in 2025) based on national targets WLC disclosure of building parts during major renovations



Vivian Dorizas Project Manager Vivian. Dorizas @ bpie.eu



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