



Conferința Internațională despre Construcții Sustenabile și Eficiență Energetică

București, 15 mai 2018

NOUA DIRECTIVĂ EUROPEANĂ PRIVIND PERORMANȚA ENERGETICĂ A CLĂDIRILOR



Dr.Ing. Cătălin LUNGU
Vicepreședinte AIIR & REHVA



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1. EPBD History - EU level



Directive 2002/91/EC

The first version of the EPBD, was approved on **16 Dec.2002** / entered into force on **4 Jan.2003**

EU MS had to comply with the Directive within **3 years** of the inception date (4 January 2006)

The Directive required that the MS strengthen their building regulations and introduce energy performance certification of buildings. More specifically, it required member states to comply with Article 7 (Energy Performance Certificates), Article 8 (Inspection of boilers) and Article 9 (Inspection of air conditioning systems)



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Directive 2010/31/EU

“EPBD recast” was approved on **19 May 2010** / entered into force on **18 June 2010**.

This version of the EPBD broadened its focus on Nearly Zero-Energy Buildings, cost optimal levels of minimum energy performance requirements as well as improved policies.

- for buildings offered for sale or rent, **the energy performance certificates shall be stated in the advertisements**
- MS shall lay down the necessary measures to establish **inspection schemes for heating and air-conditioning systems** or take measures with equivalent impact
- all new buildings shall be **nearly zero energy buildings by 31 December 2020**; the same applies to all new public buildings after 31 December 2018
- MS shall set **minimum energy performance requirements** for new buildings, for buildings subject to major renovation, as well as for the replacement or retrofit of building elements
- MS shall draw up lists of **national financial measures and instruments** to improve the energy efficiency of buildings



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1. EPBD History - EU level

Proposal for a revised directive on the EPBD (COM/2016/0765)

On **Nov.30, 2016**, the EC published the “**CLEAN ENERGY FOR ALL EUROPEANS**”, a package of measures boosting the clean energy transition in line with its commitment to cut CO₂ emissions by at least 40% by 2030 (80-95% by 2050), modernise the economy and create conditions for sustainable jobs and growth.

The package included a whole set of legislative proposals, e.g.:

- revised EPBD
- revised EED
- revised RESD
- revised electricity regulation / directive
- revised regulation on a European Agency for the cooperation of energy regulators (ACER)
- a regulation on the governance of the Energy Union

The EU Council agreed its position on the proposal on **26 June 2017**.

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1. EPBD History - EU level

On **Oct.11, 2017**, the European Parliament's Committee on Industry, Research and Energy (ITRE) voted positively on a draft report on the revised EPBD.

The Committee on the Environment, Public Health and Food Safety of the European Parliament (ENVI), also provided its opinion (voted on **Sept.7, 2017**) to ITRE's report introducing an *"obligation to ensure that energy performance upgrades also contribute to a healthy indoor environment"*.

In Aug. 2017, during his earlier interview for the REHVA journal, ITRE's rapporteur also supported that *"Indoor climate and health is a priority"*.



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1. EPBD History - EU level



The European Parliament gave on **17th of April** its final approval on the revised EPBD. This vote signals the closure of the first of 8 legislative proposals part of the "Clean Energy for All Europeans" package. This package is a key element of one of the Juncker Commission's priorities, "*a resilient Energy Union and a forward-looking climate change policy*"



COPERER approved the 2nd EPBD recast text on **02.03.2018**. The EU ambassadors confirmed the political agreement on the revised EPBD on **31 Jan.2018** and the text was again approved by the EP ITRE committee.



The text went through a legal and language revision and was formally approved on **14th of May 2018** by the Council of Ministers. This endorsement will be followed shortly by the publication of the text in the Official Journal of the Union and will enter into force **20 days** after publication. Member States will then have to transpose the new elements of the Directive into national law within **20 months**.

1. EPBD History - RO level

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Parlamentul României

Imprimare

Lege nr. 372 (r2) din 13/12/2005

Republicat in Monitorul Oficial, Partea I nr. 764 din 30/09/2016

Intrare in vigoare: 03/10/2016

Legea nr. 372/2005 privind performanța energetică a clădirilor

Tip	Data
Publicat	19/12/2005;
Consolidări în 2007	12/10/2007;
Consolidări în 2009	29/12/2009;
Consolidări în 2013	19/07/2013;
Republicare	1 din 23/07/2013;
Consolidări în 2013	16/10/2013; 12/12/2013;
Consolidări în 2016	01/02/2016; 28/02/2016; 22/07/2016;
Republicare	2 din 30/09/2016;
Consolidări în 2017	11/04/2017;

Fișa actului

Ascunde informații generale

Acțiune	Act	Data acțiune	Titlu act
Republicat în baza	Ordonanță nr. 13 din 27/01/2016	30/09/2016	Ordonanța nr. 13/2016 pentru modificarea și completarea Legii nr. 372/2005 privind performanța energ...

Ascunde informații generale

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- ▶ Afișe
- ▶ Lista
- ▶ Afișe
- ▶ Afișe

1. EPBD History - RO level

National transpositions by Member State

+ Malta	09/07/2012	9
+ Netherlands	09/07/2012	22
+ Austria	09/07/2012	75
+ Poland	09/07/2012	21
+ Portugal	09/07/2012	28
+ Romania	09/07/2012	36
+ Slovenia	09/07/2012	12
+ Slovakia	09/07/2012	17
+ Finland	09/07/2012	36
+ Sweden	09/07/2012	40
+ United Kingdom	09/07/2012	50
+ Croatia	01/07/2013	28
+ Italy	09/07/2012	17
+ Cyprus	09/07/2012	32
+ Latvia	09/07/2012	44
+ Lithuania	09/07/2012	44
+ Luxembourg	09/07/2012	24
+ Hungary	09/07/2012	38
+ Malta	09/07/2012	9

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2. New EPB Directive (novelties)

NATIONAL RENOVATION STRATEGIES AND QUALITY OF ENERGY RENOVATION

- incorporation of **long term** building renovation strategies (Article 4 of Energy Efficiency Directive), the support to mobilise finance and a clear vision for the decarbonisation of buildings by 2050 (with mid-term goals for 2030 and 2040)
- streamlined provisions in the case of delivery failure of the expected results
- policies and actions **to stimulate** (cost effective deep renovations), **target** (worst performing segments) and **promote** (smart tech and communities)
- incentivises tackling **energy poverty** through building renovation
- address also **healthy indoor** climate conditions, **fire safety** and risks related to intense **seismic activity**



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2. New EPB Directive (novelties)

INSPECTION OF HVAC SYSTEMS (art. 14 & 15)

- introduces **building automation and control (BAC)** systems as an alternative to physical inspections (non-residential, >290 kW, by 2025, where technically and economically feasible)
- overall threshold of **70 kW** for inspections of heating systems (ventilation included)
- member states have sole competence to decide on appropriate measures and frequency; effective alternatives, such as **"advice"** can be put in place
- technical building systems of buildings that are part of an energy performance contract are **exempted** from regular inspection
- EU Commission mandated to conclude by 2020 a FS – **inspection of stand-alone ventilation systems & optional building renovation passport** (including a possible IEQ declaration)



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2. New EPB Directive (novelties)



VOLUNTARY SMART READINESS INDICATOR

- encouragement of the use of information communication and smart technologies to ensure the efficient operation of buildings
- 31 Dec. 2019, the Commission shall establish an optional common EU scheme for rating the SRI
- SRI – assessment of the building/building units capabilities to adapt to the needs of the occupants, to interact with grids ...through smart meters, BAC systems, self-regulating devices for indoor temperature, built-in home appliances, recharging points for electric vehicles, energy storage etc.
- 3 key functionalities (ability to use energy from renewable sources in a flexible way, ability to adapt the operation mode to the occupants needs, flexibility of the buildings overall electricity demand)



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2. New EPB Directive (novelties)



HEALTH ISSUES AND IEQ

- the directive doesn't set binding European IEQ criteria
- the directive refers to the 2009 WHO guidelines for indoor air quality+comfort levels+wellbeing+health in buildings
- the Annex I indirectly mandates MS to define (at national or regional level) comfort and IAQ conditions: the energy needs shall be calculated in order to optimize health, IAQ and comfort levels
- FS conducted by EC before 2020: IEQ declaration of part of the EPCs



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3. RCEPB-10TH EDITION-ANNIVERSARY, 7-8 June 2018

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UT CB Technical University of Civil Engineering (UTC)

AIIR Romanian Association of Building Services Engineers Valahia Subunitary (ASB)

O.A.E.R. Romanian Chamber of Energy Auditors (OAE)

7-8 JUNE 2018

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Silver: **ALFA ROMEO**

Bronze: **Jetrun**

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AGENDA

FREE ACCESS FOR AIIR / O.A.E.R MEMBERS & ROMANIAN STUDENTS
Venue: Faculty of Building Services Engineering, Pache Protopopescu 66 Blvd., Bucharest ROMANIA
Registration: office@rcepb.ro, tel/fax + 40 21 252 42 95, www.rcepb.ro, www.aiir.ro, www.instalatii.utcb.ro



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- > **250 attendees**
 - > **11 countries represented**
 - > **10 media and institutional partners**
- Program: t&s presentations, round table, visits, business-lunch and cocktail**



4. CLIMA 2019, 26-29 May 2019

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BUILT ENVIRONMENT FACING CLIMATE CHANGE



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YouTube



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Kindly thank you for your attention!