



POLICY THAT PERFORMS:
Delivering Smarter Buildings Across Europe
Gusts Kossovičs, Managing Director at eu.bac

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THE TIMELINE

MEPS & RENOVATION TARGETS UNDER THE REVIEWED ENERGY PERFORMANCE OF BUILDINGS DIRECTIVE



RENOVATE 16 % OF WORST PERFORMING NON-RESIDENTIAL

BY 2030

16 % REDUCTION IN PRIMARY ENERGY USE IN RESIDENTIAL



RENOVATE 26% OF WORST PERFORMING NON- RESIDENTIAL

BY 2033

20-22 % REDUCTION IN PRIMARY ENERGY USE IN RESIDENTIAL

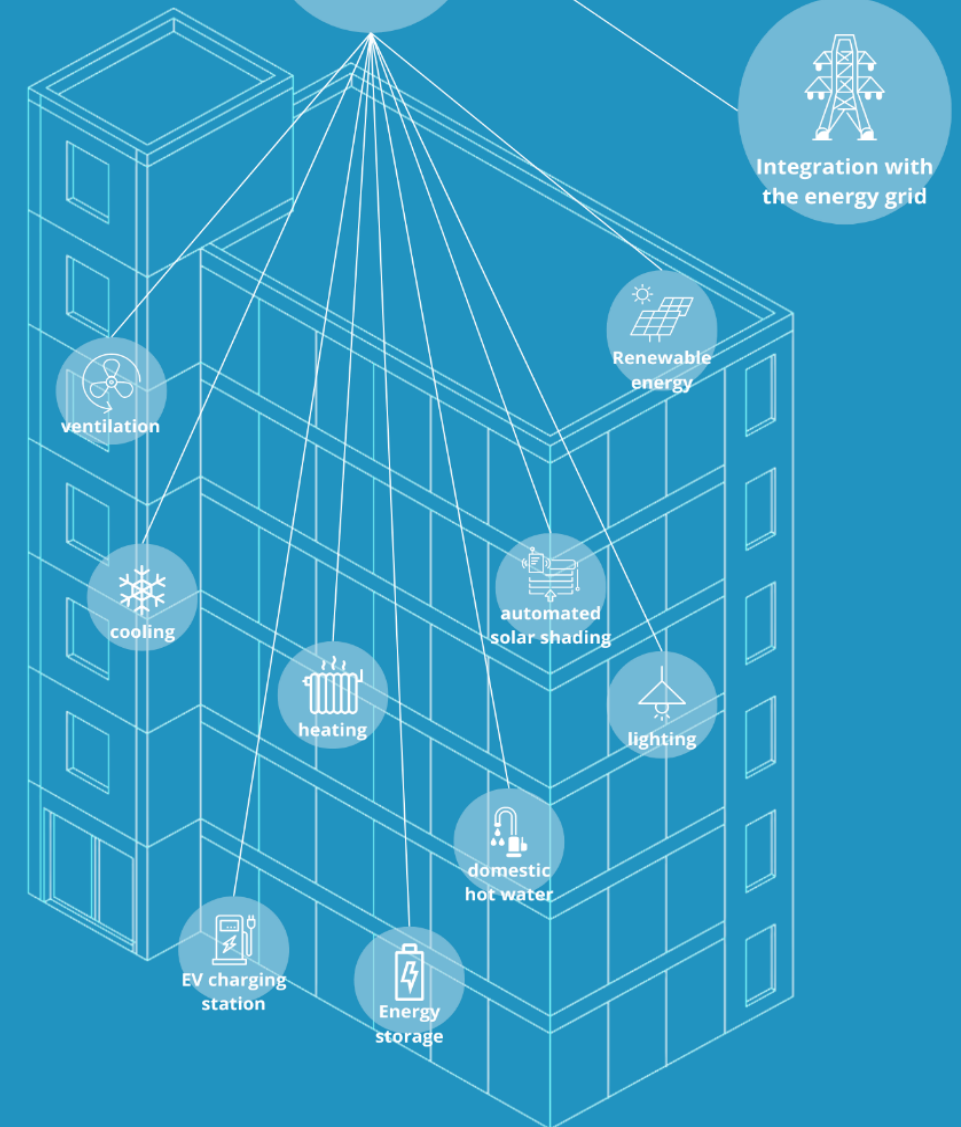


BACS

THE BRAIN OF BUILDINGS

- ✓ Up to 46% in energy savings
- ✓ 3 year payback
- ✓ Optimized comfort & IEQ
- ✓ Operational savings
- ✓ Enable grid flexibility
- ✓ Future-Proof & Compliant with Energy Performance of Buildings Directive

BUILDING AUTOMATION
AND CONTROL SYSTEMS
(BACS)



BACS Can Improve EPC Ratings by Up to 2 Classes!

New study shows

- Up to 2-class EPC improvement with BACS
- Most impact seen in lower-rated buildings (E, F, G)



SCAN TO DOWNLOAD
THE STUDY

| EPC CLASS | RESIDENTIAL | | NON-RESIDENTIAL | |
|-----------|--------------|--------------|-----------------|--------------|
| | Class A BACS | Class B BACS | Class A BACS | Class B BACS |
| A | 0,1 | 0,1 | 0,2 | 0,1 |
| B | 0,4 | 0,3 | 0,3 | 0,3 |
| C | 0,6 | 0,5 | 0,6 | 0,5 |
| D | 0,8 | 0,6 | 0,8 | 0,7 |
| E | 1,0 | 0,8 | 1,2 | 1,0 |
| F | 1,2 | 0,9 | 1,6 | 1,4 |
| G | 1,9 | 1,6 | 2,0 | 1,8 |

DEADLINES YOU NEED TO KNOW

ENERGY PERFORMANCE OF BUILDINGS DIRECTIVE

SMART BUILDING REQUIREMENTS




**BACS IN LARGE
NON-RESIDENTIAL**

31/12/2024


Ensure BACS for large non-residential buildings >290 kW

**TRANS-
POSITION**



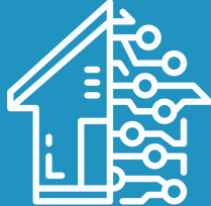
IEQ

RESIDENTIAL BACS



29/05/2026

- EPBD transposition deadline for all Member States
 - IEQ monitoring capability
 - BACS required in major residential renovations



**SMART READINESS
INDICATOR**

30/06/2027

The Commission to adopt a delegated act requiring the application of the smart readiness of buildings scheme in non-residential >290 kW



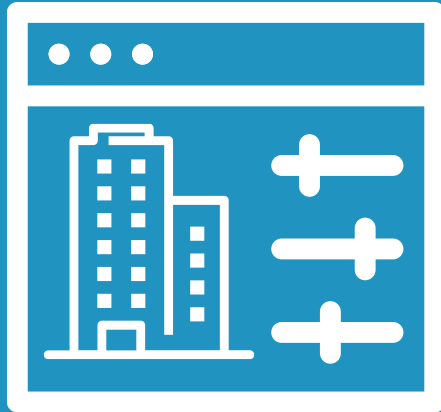
**BACS IN SMALLER
NON-RESIDENTIAL**

31/12/2029

BACS required for all non-residential buildings >70 kW

HIGHLIGHT REQUIREMENTS

BACS in non residential (Art. 13, Par. 9-10)



**BY
2025**


EFFECTIVE RATED OUTPUT >290 kW

**BY
2030**

EFFECTIVE RATED OUTPUT >70 kW

CAPABILITIES:

- a) continuously monitoring, logging, analysing and allowing for adjusting energy usage;
- b) benchmarking the building's energy efficiency, detecting losses in efficiency of technical building systems, and informing the person responsible for the facilities or technical building management about opportunities for energy efficiency improvement;
- c) allowing communication with connected technical building systems and other appliances inside the building, and being interoperable with technical building systems across different types of proprietary technologies, devices and manufacturers.
- d) **by 29 May 2026 monitoring of indoor environmental quality."**



SMART READINESS INDICATOR (Art. 15)

By 30 June 2026, the Commission shall **submit a report** to the European Parliament and the Council on the testing and implementation of the SRI on the basis of the available results of the national test phases and other relevant projects.

The Commission shall, **by 30 June 2027**, adopt a delegated act **requiring the application** of the common Union scheme for rating the smart readiness of buildings.

**NON-RES WITH
EFFECTIVE RATED OUTPUT
>290 kW**

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