



Electrical installations are the backbone of decarbonised buildings

The EPBD must make them safe, ready, efficient and smart

THE ISSUES

OUR PROPOSALS

SAFE

30% of domestic and 50% of domestic accidental fires have an electrical source.

Deploy national electrical inspection regimes and electrical safety checks in dwellings according to national wiring rules.

READY

132 million domestic electrical installations are obsolete. Renovation must anticipate electrification of heating and cooling, EV charging, storage and on-site renewables.

Incorporate requirements and indicator of readiness of electrical installations for full (staged) decarbonisation.

EFFICIENT

64 TWh energy (2% of electricity generated in the EU) is lost in behind-the-meter networks (in-building electrical installations).

Include electrical installations in the definition of Technical Building Systems (TBS) and point to the relevant economic optimisation standards for their dimensioning.

SMART

Smart integration of highly efficient heat pumps, EV charging infrastructure, storage and renewable generation can contribute to an efficient and stable electrical grid via demand side flexibility.

Mainstream Building Automation and Control Systems (BACS), smart EV charging, real-time energy monitoring and smart meters.
Introduce a metric to quantify the demand side flexibility at building and/or district level.

TOOLS

Long Term Renovation Strategy (LTRS)
Energy Performance Certificate (EPC)
Smart Readiness Indicator (SRI)
Building Renovation Passport (BRP)
Inspections (EPBD Art 14 and 15)
Minimum Energy Performance Standards (MEPS)
Deep Energy Renovation Standard