

# The Smart Readiness Indicator (SRI)

for rating smart readiness of the European building stock

## BACKGROUND AND VISION

- Digital innovations, such as the Internet of Things, are reshaping the society and economy we live in.
- We spend most of our time in buildings. They are at the core of our society, and they are crucial for the energy transition.
- Our buildings must be fit for the challenges and opportunities triggered by digital transformation technologies.
- The SRI is a key step forward in this direction.

## POLICY CONTEXT

- With the **European Green Deal** and the **Renovation Wave**, the EU promotes the upgrade of the building stock
- The potential of smart technologies in the building sector was heavily emphasised in the 2018 revision of the **European Energy Performance of Buildings Directive (EPBD)** and the SRI was introduced, followed by two legal acts [1] [2] in 2020 which establish the SRI as an official EU instrument.
- The proposal for a revision of the EPBD adopted in 2021 foresees further strengthening the SRI to ensure its **widespread application in large new buildings**.

## WHAT IS THE SRI?

- The SRI is a common EU scheme for rating the smart readiness of buildings
- The SRI assesses how smart a building is in terms of:
  1. responding to the needs of the occupant (e.g. health, comfort, well-being, etc.)
  2. using energy efficient control strategies
  3. interacting with energy grids (energy flexibility / demand response and system integration)



## WHY IS IT RELEVANT?

- Using smart technologies in buildings can be a cost-effective way to assist in creating healthier and more comfortable buildings with lower energy use and carbon emissions.
- For instance:
  1. Digital technologies such as smart thermostats and lighting control can pay back within 2 years.
  2. Smart technologies, such as automated sun shading control or ventilation control based on air-quality sensors, can also improve health, well-being and comfort.
  3. Intelligent scheduling of energy consumption (white goods, electric vehicles, etc.) can result in significant energy savings, and at the same time it contributes to grid balancing.
- The SRI provides a common language for building stakeholders (owners, designers, solution providers, policy actors, etc.) to discuss how to make buildings smarter, and what benefits this will bring.

## WHAT ARE THE IMPACTS?

- At building scale, an **average 30% savings** of final energy can be obtained when implementing an advanced package of smart building technologies. Some of the single optimisation measures are easy to implement with a short payback period (e.g. exchange of thermostatic valves, boiler and pump adjustments, night setbacks, etc.).
- Depending on how it is implemented across the EU by 2040, the SRI has the potential to save annually up to: 160 TWh in primary energy consumption, 23 Mt of CO<sub>2</sub> emissions, €12.5bn in consumer energy costs and €1.4bn in energy system costs. In addition, it could deliver annual health and wellbeing benefits valued at €6.5bn and help create 76 thousand jobs [3].



## HOW CAN I GET INVOLVED?

### EU Member States

- EU countries, through national and local authorities, (energy agencies, etc.), are invited to **implement or launch a test phase of the SRI scheme**.
- The Commission provides support and guidance to committed Member States through a **dedicated SRI helpdesk**.

### Building owners, manufacturers, sustainability professionals

- Request the SRI assessment package which includes a **SRI calculation sheet** and a **practical guide** to get started.
- A **training package** explains how to conduct an SRI assessment and **training webinars** are organised to facilitate the understanding of the SRI methodology.

Email your questions to the **SRI support team** at [support@smartreadinessindicator.eu](mailto:support@smartreadinessindicator.eu)

## FOLLOW US AND CONTACT US!

- SRI website, FAQ and resources: <https://ec.europa.eu/smart-readiness-indicator>
- European Commission Contact: Brigitte Jacquemont | [brigitte.jacquemont@ec.europa.eu](mailto:brigitte.jacquemont@ec.europa.eu)
- Subscribe to the [SRI newsletter](#)
- Twitter: @Energy4Europe

Several projects are developing Research & Innovation activities around the SRI. Stay updated by joining the European Smart Buildings Innovation Community at: <https://smartbuilt4eu.eu/join-our-community/>

## REFERENCES

- [1] Implementing regulation on optional scheme for rating smart readiness of buildings | C(2020) 6929  
 [2] Delegated regulation on optional scheme for rating smart readiness of buildings | C(2020) 6930  
 [3] Final report on the technical support to the development of a smart readiness indicator for buildings | doi:10.2833/41100



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**SMART READINESS INDICATOR (SRI)**