



## SMART READINESS INDICATOR (SRI)

### A FOCUS ON ELECTRICITY SYSTEMS

SRI is a common EU scheme for rating the smart readiness of buildings.

Electricity is one of the **nine technical domains** addressed by the SRI.

At the EU level, buildings account for 40% of the final energy consumption. Electricity consumption represents the second highest share of energy use in buildings (residential and non-residential) at 32% at the EU level. The fastest-growing building end uses include space cooling, appliances and electric plug-loads, all of which are driving buildings sector electrification.

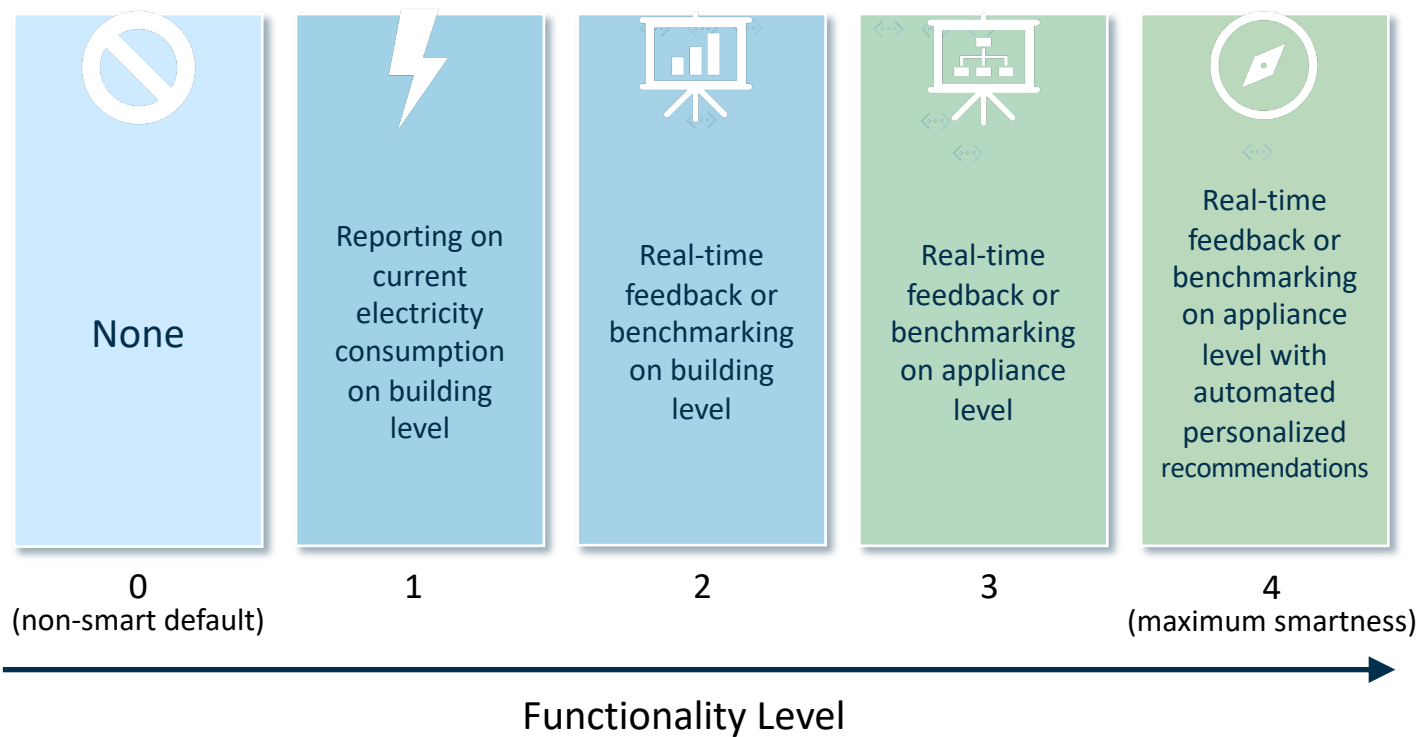
Feedback and reporting are critical to understanding a building's electricity consumption. Once an energy usage profile has been extracted from a building, the data can be used to design and implement energy-saving actions; for instance, proposing strategies to adjust the operation time and configuration of the involved appliances or devices, or selecting the optimal distribution of energy to maximise the use of alternative energies.

### AN EXAMPLE OF SMART-READY SERVICE

The SRI implements a catalogue of smart-ready services. The next page provides one example of smart-ready service categorised under the Electricity technical domain. An example of a full Smart-ready-services catalogue can be obtained by requesting the SRI assessment package at:








<https://ec.europa.eu/eusurvey/runner/SRI-assessment-package>

Service group: **Feedback- Reporting Information**  
 Smart-ready-service: **Reporting information regarding electricity consumption**



**FUNCTIONALITY LEVELS CORRELATION WITH SRI IMPACT CRITERIA**

Each functionality level of a given smart-ready service has corresponding individual scores for each of the **seven impact criteria** addressed by the SRI, as illustrated below.

	 Energy efficiency	 Maintenance and fault prediction	 Comfort	 Convenience	 Health, well-being and accessibility	 Information to occupants	 Energy flexibility and storage
Level 0	0	0	0	0	0	0	0
Level 1	0	0	0	0	0	1	0
Level 2	1	0	0	0	0	2	0
Level 3	2	1	0	0	0	3	0
Level 4	3	2	0	1	0	3	0

- **Level 1** | Reporting on current electricity consumption on building level - offers an increase in information to building occupants.
- **Level 2** | Real-time feedback or benchmarking on building level - offers a slight increase in energy efficiency and further improved information to building occupants.
- **Level 3** | Real-time feedback or benchmarking on appliance level - combines moderate energy efficiency and maintenance and fault prediction with a maximum level of information to building occupants.
- **Level 4** | Real-time feedback or benchmarking on appliance level with automated personalized recommendations - offers a maximum level energy efficiency, information to building occupants, combined with moderate level of maintenance and fault prediction and slight increase in convenience.

According to the SRI delegated regulation, Member States shall make available at least one smart-ready catalogue to be used by experts as the basis for identifying and assessing smart-ready services. Smart-ready service catalogue includes the list of smart-ready services to be considered for calculating the smart readiness score, related functionality levels, and corresponding individual scores for the impact criteria. Member States may decide to make available several smart-ready catalogues, for instance for different building types.

## FURTHER READING

Examples of European and International associations to learn further about smart controls for electricity systems include: Eurelectric, smartEn, and eu.bac (European Building Automation and Controls Association)



## FOLLOW AND CONTACT US

- SRI website, newsletter, FAQ and resources: <https://ec.europa.eu/smart-readiness-indicator>
- European Commission Contact: Brigitte Jacquemont: [ENER-BUILDINGS@ec.europa.eu](mailto:ENER-BUILDINGS@ec.europa.eu)
- Twitter: @Energy4Europe #SmartReadinessIndicator

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>