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March 2023

Smart Readiness Indicator

Newsletter



#SmartReadinessIndicator

Events

Join us in Brussels or online for the SRI Platform 3rd Plenary Meeting !

The SRI platform is an exchange forum involving building professionals interested in the SRI, and more generally in smart and efficient buildings. This meeting is an opportunity to hear the latest updates from the front running Member States who are currently implementing an official test phase of the SRI.



The SRI platform working groups will also present their latest work on maintenance & potential extension of the SRI calculation methodology, and around the SRI value proposition and supporting measures.

This meeting is also an opportunity to learn more about and network with four LIFE Clean Energy Transition projects: easySRI, Smart², SRI-ENACT and SRI2MARKET. Together, these projects gather 42 partners from 16 countries, and they are all contributing to support the implementation and successful market uptake of the SRI.



SRI2MARKET



When: Wednesday 22 March 2023, 14:30 CET - 18:00 CET

Where: Hybrid meeting. European Commission, Rue de la Loi 170, Brussels, Belgium, Charlemagne Building, Room Sicco Mansholt

Register [here](#) to attend the 3rd Plenary Meeting of the SRI Platform, in Brussels or online.

(please note that registration for in-person participation in Brussels will close on Monday, the 20th of March at 17:00 CET).

Further details and agenda on [this event page](#).

News

The SRI will benefit from your views on the needs of Member States to implement it - please complete our EU Survey

With more EU Member States beginning SRI test phases the European Commission is looking for members of the SRI community (i.e. you, the dear readers of this newsletter, as well as any other interested parties) to help them to provide support to Member States to implement the SRI.



Specifically, they invite readers to share their views on what support would be most useful for Member States through a short EU survey which is available at [this link](#).

Everyone is welcome to complete the survey for which confidentiality and GDPR will be fully respected.

The deadline for its completion is : 23 March 2023.

Please take a few minutes to share your views and thank you for your help!

SRI Case Studies on example buildings

The SRI support team is working on the compilation of case studies of SRI assessments on example buildings. Each case study presents the outcomes of the SRI assessments, an overview of the aspects positively impacting the evaluation, as well as improvement potential suggestions.



We are pleased to release a first case study which presents the SRI assessment of a non-residential office building in Bettembourg, Luxembourg. Would you like to submit your building's SRI assessment for a new case study ? [Contact the SRI support team !](#)

SMART READINESS INDICATOR (SRI)

Case study n°1

THE BUILDING:

Building type	Non-residential (office building)
Location	Bettembourg, Luxembourg
Surface area	2200 m ²
Construction year	2014
Specificities	The NeoBuild building is a pilot project for environmental performance and renewable energy production. It allows testing novel technologies, materials and building components

MAIN TECHNICAL CHARACTERISTICS:

EPIC* class A
Heat pumps (ground to water & air to air)
Solar panels (internal & PV) on the roof and on several sides
Energy storage on site
No active cooling

* EPIC = energy performance certificate

HOW THE SRI WAS ASSESSED:

Assessment carried out by [LST](#). Use of the detailed service catalogue available in the SRI assessment package (available on request at <https://ec.europa.eu/eusurvey/runner/SRI-assessment-package>).

OUTCOMES OF THE SRI ASSESSMENT:

Overall SRI score: **67%**

Scores per impact criteria:	
Energy efficiency	81%
Maintenance and fault prediction	52%
Comfort	75%
Convenience	61%
Health, well-being and accessibility	62%
Information to occupants	59%
Energy flexibility and storage	68%

Scores per technical domains:	
Heating	74%
Cooling	-
Domestic hot water	57%
Ventilation	60%
Lighting	85%
Dynamic building envelope	45%
Electricity	43%
Electric vehicle charging	0%
Monitoring and control	60%

FOCUS ON ONE SERVICE:
DE-4 "Reporting information regarding the performance of dynamic building envelope systems"
The building is equipped with a weather station and sensors providing real-time information. Therefore, the functionality level for this service is 3.

Functionality level 0 (non-smart default)	Functionality level 1	Functionality level 2	Functionality level 3	Functionality level 4 (smartest level)
No reporting	Position of each product & fault detection	Position of each product, fault detection & predictive maintenance	Position of each product, fault detection, predictive maintenance, real-time sensor data (wind, lux, temperature...)	Position of each product, fault detection, predictive maintenance, real-time & historical sensor data (wind, lux, temperature...)

ASPECTS POSITIVELY IMPACTING THE EVALUATION:

Heating control by zone
Variable velocity circulation pump & smart control
Predictive control of hot water storage (for heating)
Smart DHW management in conjunction with PV generation
Air quality indicators per zone
Lighting: smart actuation with presence sensors

Smart blinds system management and fault detection
Smart electric energy storage, optimisation of self-consumption
Photovoltaic production
Energy reporting via a common application
Single platform for management of HVAC, blinds & lighting

* DHW = domestic hot water

IMPROVEMENT POTENTIAL:

To increase the overall SRI score from **67%** to **91%**:

DECISIONS	ACTIONS	IMPACTS
Smart grid implementation: building systems responding to electric grid signal	Involvement of the DSO and configuration of systems	Increased energy flexibility and storage
Intelligent charging stations on at least 10% of parking spaces (user indication of charge and control at vehicle level)	Installation of a sufficient number of adequate EV charging stations	Improved convenience, improved information to occupants, increased energy flexibility and storage
Predictive management & occupant feedback for blinds, heating, DHW, ventilation and battery charging. Smart control depending on occupancy and weather conditions	Data analysis and prediction models to develop and deploy	All SRI impact criteria improved by such a broad action

FOLLOW AND CONTACT US!

- SRI website, newsletter, FAQ and resources: <https://energy.ec.europa.eu/smart-readiness-indicator>
- European Commission Contact: Brigitte Jacquot: ENER-BUILDINGS@ec.europa.eu
- Twitter: @Energy4Europe #SmartReadinessIndicator

Download our first case study on the [SRI Implementation Tools web page](#).

News and updates on the implementation of the smart readiness indicator (SRI) under the energy performance of buildings directive (EPBD).

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