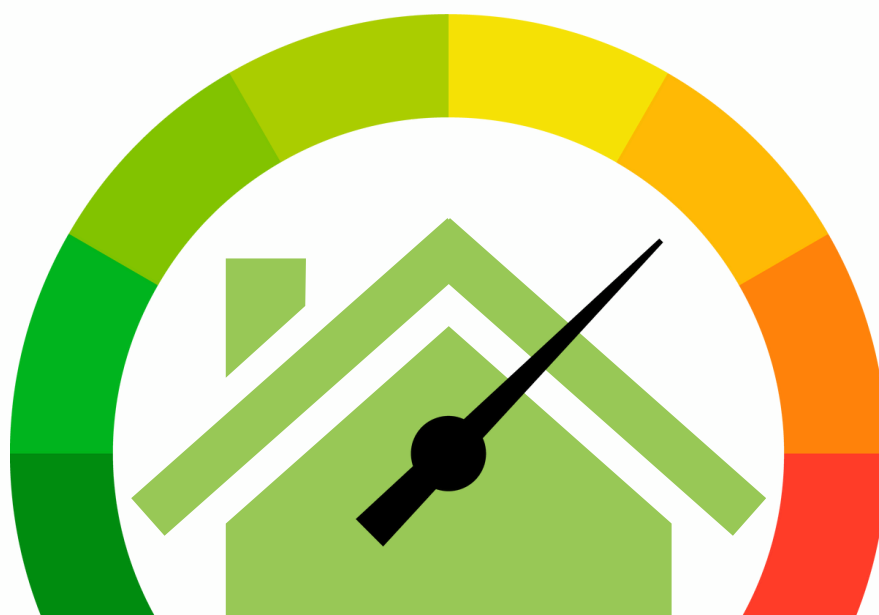


SRI TRAINING

SRI-ENACT Toolkit Guidebook



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<https://srienact.eu/>



The LIFE21-CET-SMARTREADY SRI-ENACT project has received funding from the European Union's LIFE Programme under grant agreement N°101077201

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SRI IN A NUTSHELL

WHAT?

**Assessment
of a building's
capacity to
accommodate
smart ready
services**

WHY?

**Raise awareness
about the added
value of building
smartness, stimulate
investment, support
technology uptake**

WHO?

**EU Member
States (currently
optional,
mandatory from
2026 for some
building types)**

HOW?

**Structured
methodology from
the EC,
customisable to
the local context**

SO FAR?

**11 EU countries – Denmark, Austria,
France, Finland, Czech Republic, Croatia,
Spain, Cyprus, Slovenia, Belgium,
Germany**

HISTORY OF THE SRI



SRI into Practice: SRI-ENACT toolkit





SRI-ENACT Toolkit - Overview



SRI-ENACT toolkit is accessible under the url:
<https://www.srienact-tool.eu/>



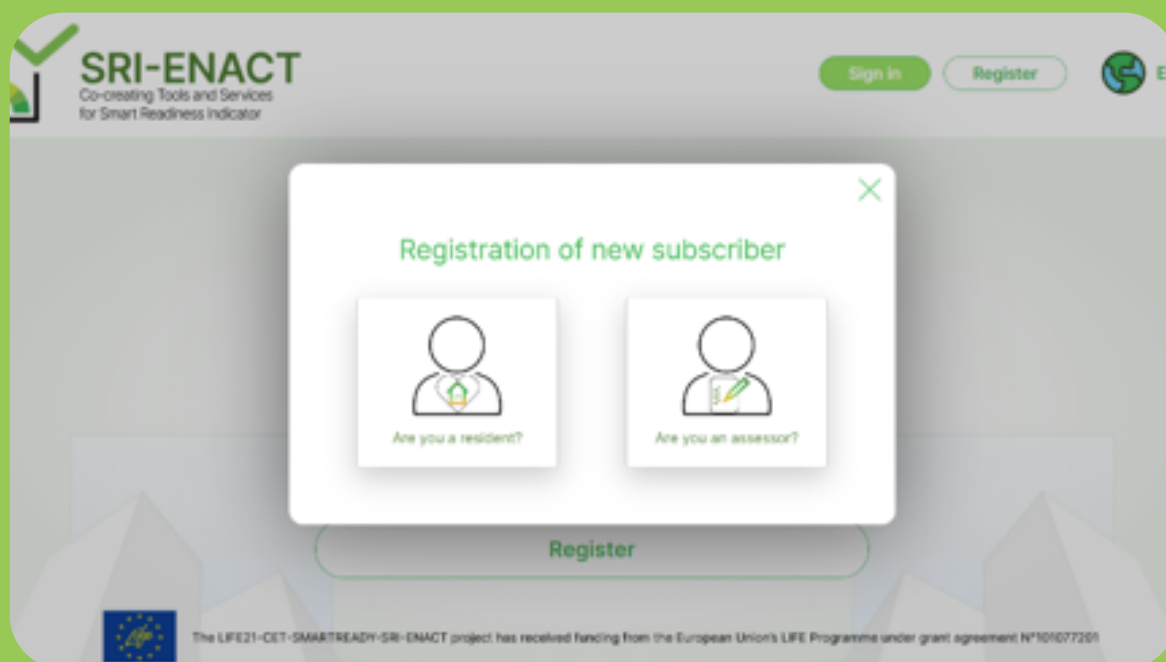
SRI-ENACT toolkit includes:

- Assessment tool that implements the SRI methodology
- Decision support tool for supporting decisions regarding the smart-ready upgrades



SRI-ENACT toolkit offers different user roles:

- Resident, assessor, supervisor/administrator providing different access policies and views of the SRI assessment at national or EU level



SRI-ENACT Toolkit

Registration Process

Register as resident:

Registration is open for the general public



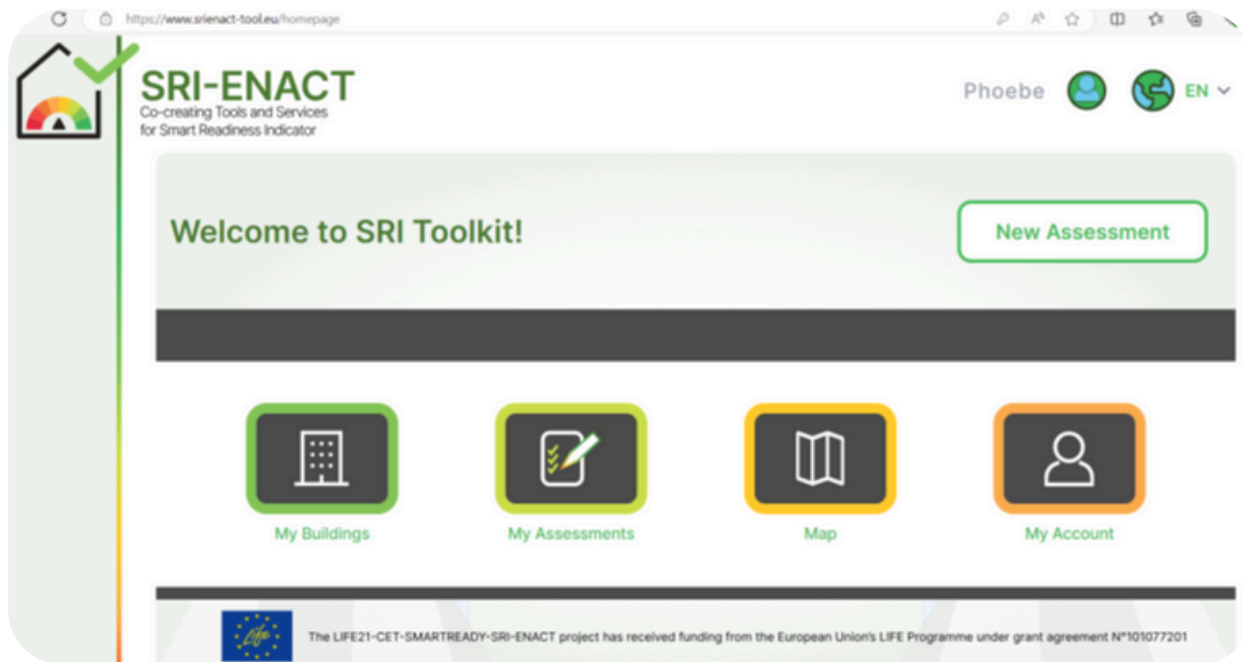
As a resident, the user will also be able to conduct assessments

Register as an assessor:

Registration is controlled by the SRI-ENACT administrator. It requires first that the assessor is added by the administrator in assessor's registry.



Only certified SRI-ENACT “assessors”, who will participate in the pilot activities will be granted access to the tool as assessors in the system



SRI-ENACT Toolkit

Menu

My Buildings:

Create new buildings and store them for later use

My Assessment:

View, access all your assessments

Map:

View your building assessments in Google maps

My account:

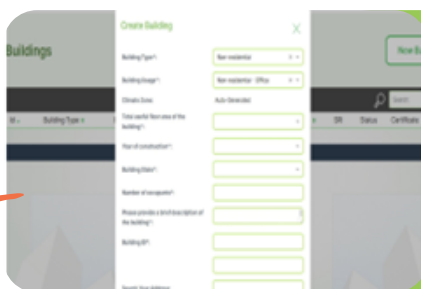
Manage your account



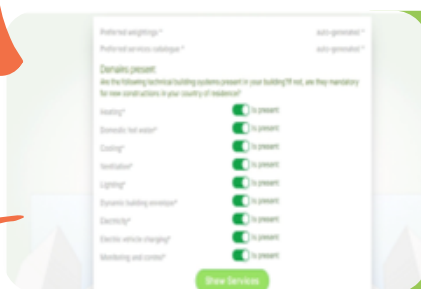
**SRI-ENACT DST is not directly accessible from the menu;
It is only accessible after the completion of an SRI
assessment**

SRI-ENACT Assessment Tool

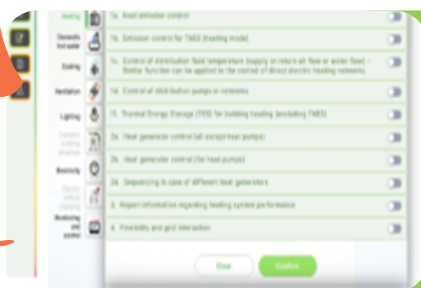
Assessment Workflow



After clicking on new assessment, you will be asked to select a building from “My buildings” or add a new Building (Google maps integrated to facilitate Building addition)



Select present domains and Mandatory/Non mandatory in case of non-presence. Note that the Assessment method is pre-defined to Method B and cannot be modified by the assessor



Select the domain from the left menu and unfold the present services. For each service define the functionality level. Press “Confirm” to save your data and “clear” to restart. Once completed, press “Calculate SRI”



View the output of your evaluation. At this stage, you can return back to refine/correct your assessment. Once, the evaluation is complete, press “Complete Assessment”. Press “Send to DSS” to access the SRI-ENACT DST



Assessment ID	Address	City	SRI	Status
10-100-2024	Rosario	Madrid	20.0	Completed
10-100-2024	San	San	0	Start
10-100-2024	San	Madrid	0	Start
10-100-2024	Madrid	Madrid	0	Completed
10-100-2024	San	Madrid	0	Completed
10-100-2024	San	San	0	Start

Access your assessment in draft mode or after completion. Draft assessments can be deleted. Completed assessments cannot be modified and cannot be deleted



SRI-ENACT Toolkit

Other User Roles

Country/EU supervisors

- Read-only access to aggregated statistics

Country/EU Administrators

- Read-only access to actual SRI assessments
- Able to add new users (assessors)
- Check the default weightings

SRI-ENACT Toolkit

Tips & Takeaways



Please **cross-check your assessment**, before you press “Complete Assessment”. After this step, the evaluation is no longer editable.



The application allows **one assessment for each building**. The latest one overwrites the previous assessment.



After the completion of the assessment, you will have **access to the input data and the results** (also downloadable as a pdf)



Please report any issue/bug/potential new feature in **sri-toolkit_support@singularlogic.eu**



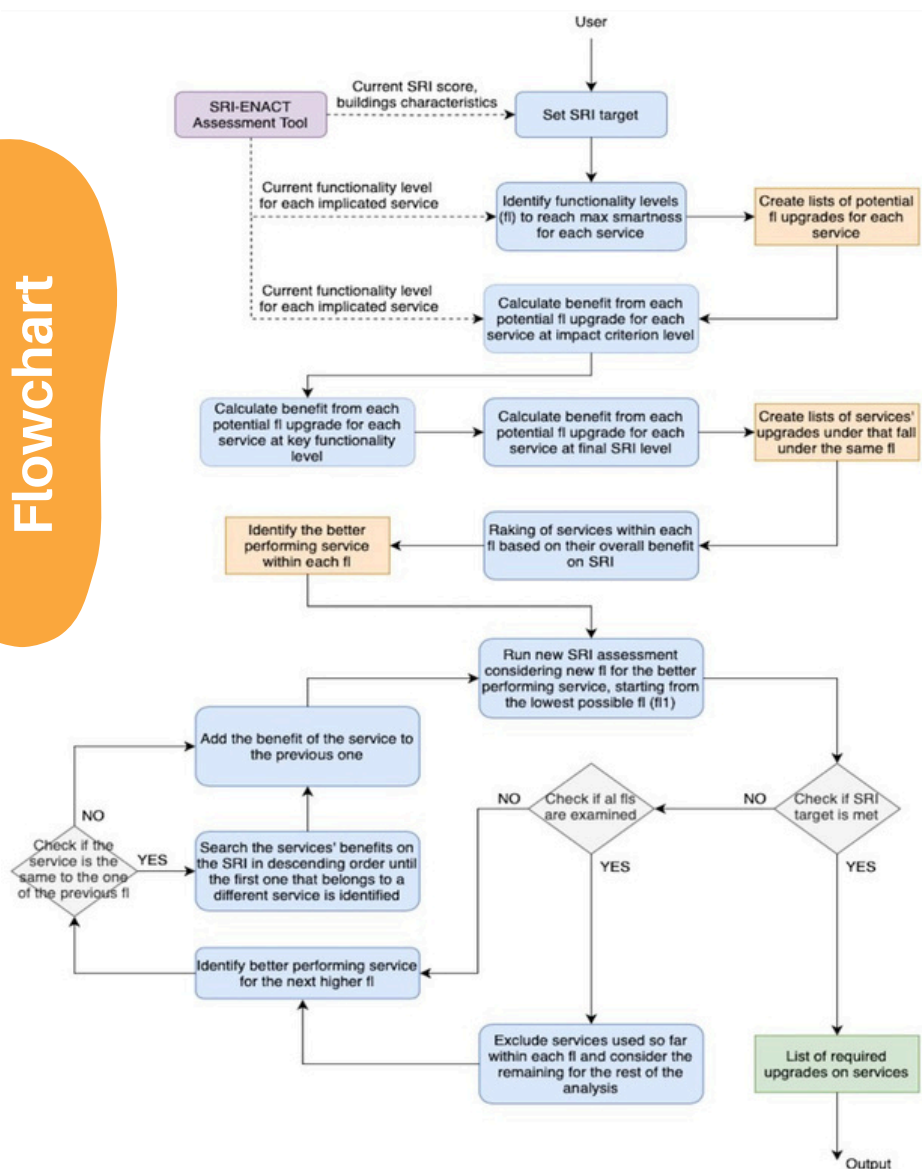
SRI DST Overview

Scenario-driven framework building on the results of the involved buildings' SRI evaluations drawn from the SRI Assessment Tool.

Key insights and targeted solutions to the users regarding the smart-ready upgrades (or combinations of smart-ready upgrades presented as scenarios) that should be implemented.

User-defined SRI target should be met for a building under evaluation, keeping the number of interventions to be materialised and their respective cost at their minimum levels.

SRI DST - Flowchart



SRI DST

Set your SRI Goal Page

Welcome to SRI-ENACT Decision Support Tool!

The SRI DSS Tool enables the evaluation of SRI in different scenarios, considering the potential adoption of energy efficiency measures and technologies.

Here is an overview of the services present in your building:

Search:

Service Name	Domain	Functionality	Level
Control of DHW storage charging (using hot water generation)	Domestic hot water	Automatic control on / off and scheduled charging enable	1
Control of DHW storage charging (with direct electric heating or integrated electric heat pump)	Domestic hot water	Automatic control on / off and scheduled charging enable and multi-sensor storage management	2
Emission control for TABS (heating mode)	Heating	Advanced central automatic control with intermittent operation and/or room temperature feedback control	3
Heat emission control	Heating	Individual room control with communication and occupancy detection	4

Showing 1 to 4 of 4 entries

Previous 1 Next

Overview of the present smart-ready services in the building under examination – interconnection point to the SRI Assessment Tool.



About

Service Name	Domain	Functionality	Level
Control of DHW storage charging (using hot water generation)	Domestic hot water	Automatic control on / off and scheduled charging enable	1
Control of DHW storage charging (with direct electric heating or integrated electric heat pump)	Domestic hot water	Automatic control on / off and scheduled charging enable and multi-sensor storage management	2
Emission control for TABS (heating mode)	Heating	Advanced central automatic control with intermittent operation and/or room temperature feedback control	3
Heat emission control	Heating	Individual room control with communication and occupancy detection	4

Showing 1 to 4 of 4 entries

Previous 1 Next

Overview of the current SRI score and the SRI class for the building under evaluation

Your current SRI score is 40.4%

Your SRI Class is E



Enter your SRI goal %:

Proceed

Interaction with the user through the requested SRI goal.



About

Service Name	Domain	Functionality	Level
Control of DHW storage charging (using hot water generation)	Domestic hot water	Automatic control on / off and scheduled charging enable	1
Control of DHW storage charging (with direct electric heating or integrated electric heat pump)	Domestic hot water	Automatic control on / off and scheduled charging enable and multi-sensor storage management	2
Emission control for TABS (heating mode)	Heating	Advanced central automatic control with intermittent operation and/or room temperature feedback control	3
Heat emission control	Heating	Individual room control with communication and occupancy detection	4

Showing 1 to 4 of 4 entries

Previous 1 Next

Enter your SRI goal %:

30

Value must be greater than or equal to 41.

Enter your SRI goal %:

45

Proceed

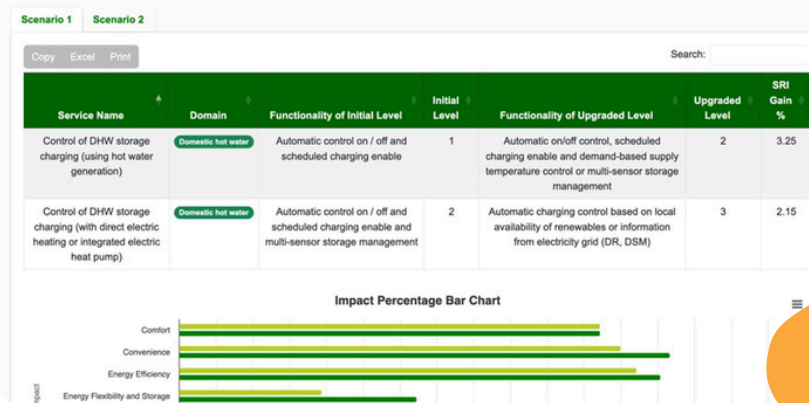
Operational check of the set SRI goal.

Valid SRI and proceed to the "Upgrade Scenarios" analysis.

SRI DST

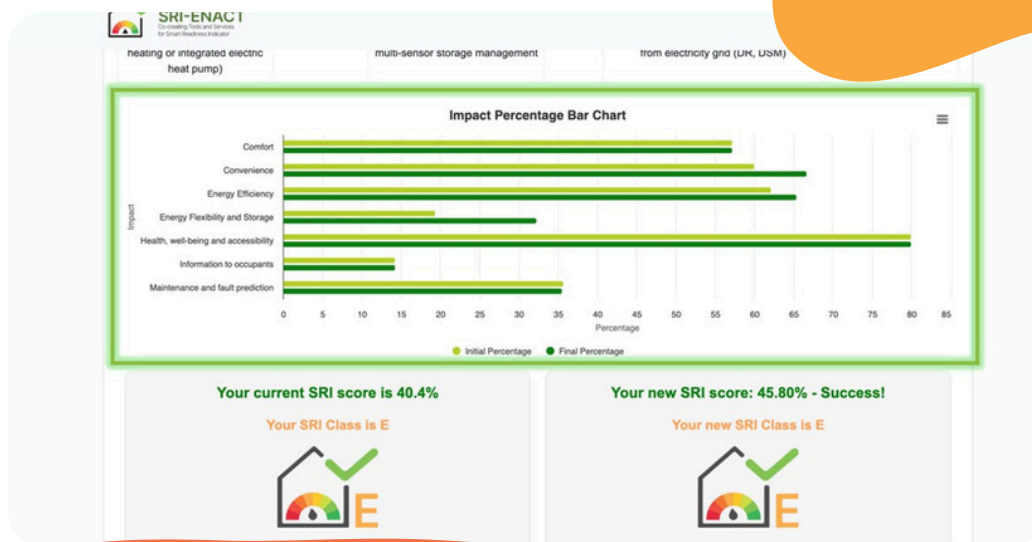
Scenarios Page

Here you can view all the potential smartness upgrade actions based on the available infrastructure in your building to achieve your SRI goal:



Overview of the potential smartness upgrade scenarios that meet the SRI goal, and effect on the impact criteria.

Detailed information on the potential smartness upgrade scenarios



'Upgrade scenarios' effect on the impact criteria and calculation of the new SRI score and class for each scenario that meet the defined SRI goal.

The upgrade scenario's effect on the impact criteria is compared to the current situation captured by the SRI Assessment Tool.

SRI DST Scenarios Page



A smart functions' suite is linked to the graph of the effect of each scenario upgrade on the impact criteria.

Comparative presentation of the current and new SRI score and class for each upgrade scenario.

Overview of the potential smartness upgrade scenarios that fail to meet the SRI goal.

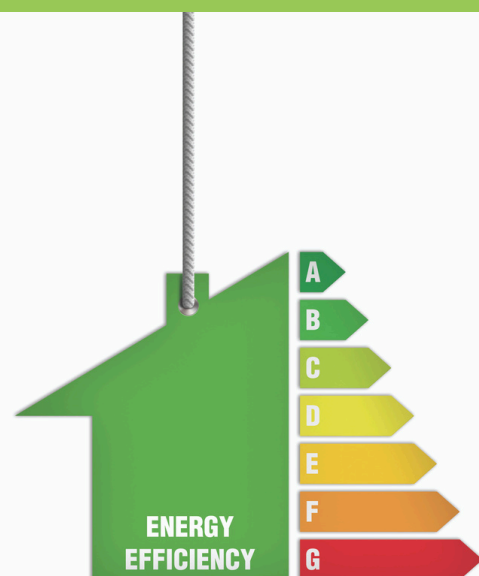
Presentation of the upgrade scenarios' effect that fail to meet the defined SRI goal on the impact criteria.

Calculation of the new SRI score and class.



CASE STUDY

Green Point Building in Austria



GREEN POINT

Wiener Neustadt, Austria,

City: Wiener Neustadt

Address: Pottendorfer Strasse 62

Building typology:
Residential/Office

Years of construction: 2020

Heated floor area: 11.600 m²

Energy class: A



Technical Domains Information

heating

Heat energy is used via the connection to district heating system in the city. The building has its own heat exchanger and supplies the apartments and offices with the energy for heating and domestic hot water. The price of heating energy is high but due to good insulation, it is not used in large amounts. The meters for the heating are included in the monitoring system. Heating is controlled centrally in each apartment.

cooling

No cooling system installed.

domestic hot water

Same as heating – connection on district heating system

ventilation

Only natural

lighting

Public spaces, corridors, stairs and similar are equipped with motion sensors for lighting

dynamic building envelope

Apartments have control of window shading based on the time of day

EV chargers

There are 13 different EV chargers, 2×50 kW DC and the rest are 22 kW AC. EV charging is controlled not to exceed the maximum allowed power.



electricity

The electrical connection from the grid includes 5 LV lines from one substation (EVN as a local DSO). All supply lines are interconnected and could supply any customer in the building. The solar PVs are divided into 3 groups, each has one inverter for the supply of energy:

- One group of solar PVs from the roof with max power 30 kW supplying 1st floor apartments
- Second groups of solar PVs from the roof with max power 30 kW supplying 2nd floor apartments
- Third group of PVs from the roof and all balconies supplying the customers on the ground floor and the grid connection, max power 168 kW.

The first and second group of PVs are connected to battery storage, each with a capacity of 50 kWh.

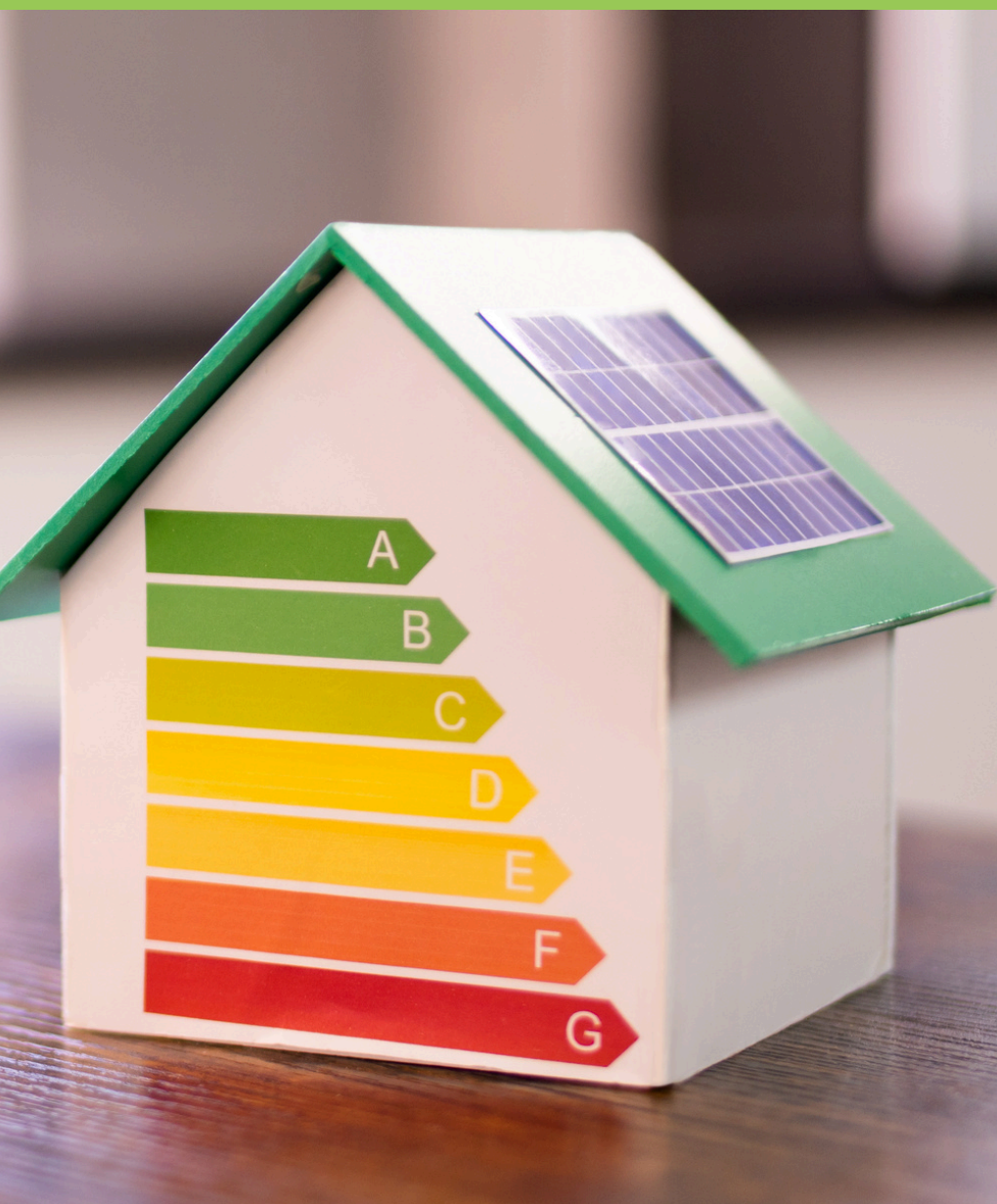


monitoring & control

All meters are monitored by the EUDT system. EUDT system comprises of single Smartbox computer collecting the meter data and cloud-based software for presentation and analysis. Communication with meters is MODBUS and MBUS. No control is possible. The system is not connected to any other external system.

TIPS

for SRI Assessment Tool



Understand the characteristics of the assessed building

Collect relevant key information for the building (even before the on-site visit)

Make sure that the facility manager and ideally the maintenance person are both available during the on-site visit to answer the questions required

SRI assessment is a time-consuming process (especially in case Method B is used) so make sure that there is enough time available (> 3-4 hours) for both the assessor and the facility manager (and maintenance person) to perform the assessment

Understanding smart-ready services

**Thorough reading
of the smart-ready
services for in-
depth
understanding
before on-site
visits**

**Identification of
the present
domains and
smart-ready
services is highly
important in the
building under
examination**

**Domains that are
absent in the building
under examination but
necessary according to
the domestic
legislation, should be
identified and
considered in the
analysis**

**Try to elicit and put
together a list of
“smart” questions that
need to be answered
upon assessing each
domain to facilitate
present smart-ready
services**

Understanding smart-ready services

Identification of the smart-ready services that refer to the generation level and the ones that are focused on the end user

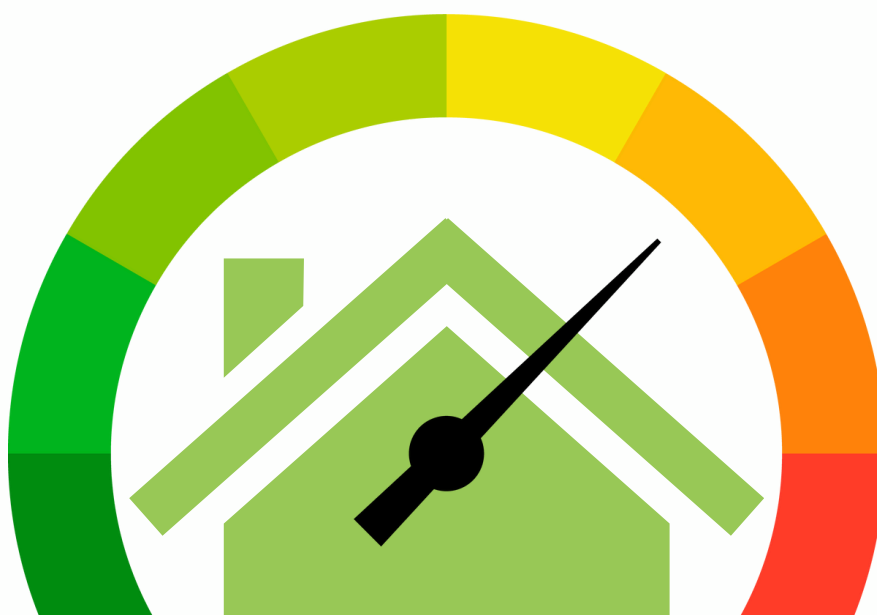
“Electricity” domain includes smart-ready services related to both electricity generation through RES and consumption, so make sure to identify the difference

“Heating” and “Cooling” domains are pretty much alike in terms of included smart-ready services, so it would be helpful to examine them jointly

Keep in mind that a smart-ready service may be present only in a part of the building, which should be written down accordingly



Co-creating Tools and Services for Smart Readiness Indicator Uptake



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