

SMART READINESS INDICATOR (SRI)

Case study n°3

THE BUILDING:

Building type	Non-residential (office building)		
Location	Aix-en-Provence, South of France		
Surface area	13,772 m ²	Construction year	1970's
Specificities	This research center is a group of several buildings supplied by a collective boiler room.		



MAIN TECHNICAL CHARACTERISTICS:

EPC*
class: E

Heating by gas
boiler with
remote controlled
device

Cooling by
air/water
heat pump

Single flow
ventilation for 90%
of the floor area and
double flow on 10%

Some EV
charging
points

* EPC = energy performance certificate

HOW THE SRI WAS ASSESSED:

The assessment was carried out in the framework of the official test phase conducted in France, making use of the non-residential service catalogue of the SRI calculation sheets adapted by France (<https://www.ecologie.gouv.fr/smart-readiness-indicator-sri-lindicateur-potentiel-dintelligence-des-batiments>).










OUTCOMES OF THE SRI ASSESSMENT:

Overall SRI score: **39%**

Scores per technical domains:

Scores per impact criteria:

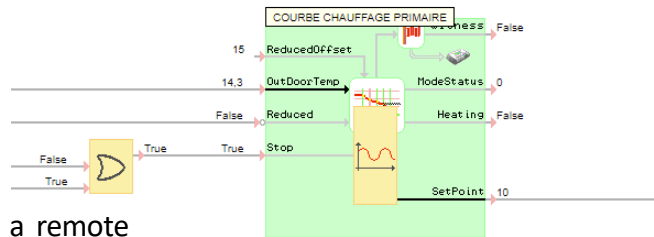
Energy efficiency		44%
Maintenance and fault prediction		44%
Comfort		45%
Convenience		56%
Health, well-being and accessibility		48%
Information to occupants		66%
Energy flexibility and storage		21%

Heating		35%
Cooling		38%
Domestic hot water		63%
Ventilation		23%
Lighting		16%
Dynamic building envelope		0%
Electricity		35%
Electric vehicle charging		44%
Monitoring and control		57%

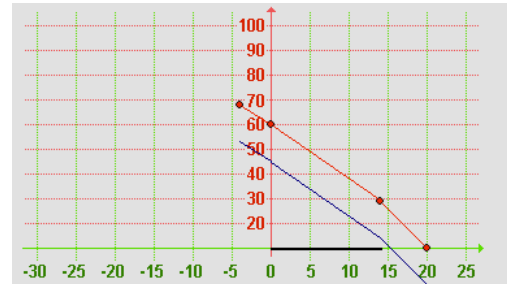
FOCUS ON ONE SERVICE:

H2-a “Heat generator control (all except heat pump)”

The building’s heating system is equipped with a remote control allowing the temperature control based on the outside temperature. Therefore, the functionality level for this service is 2.



Functionality level 0 (non-smart default)	Functionality level 1	Functionality level 2 (smartest level)
Constant temperature control	Variable temperature control depending on the outside temperature	Variable temperature control depending on the load



ASPECTS POSITIVELY IMPACTING THE EVALUATION:

Variable speed pump control of the heating system

Individual room control for heating and cooling

Cooling plant multi-stage control based on building loads

Performance evaluation of the DHW system including predictive management and fault detection

Central indication of detected faults and alarms

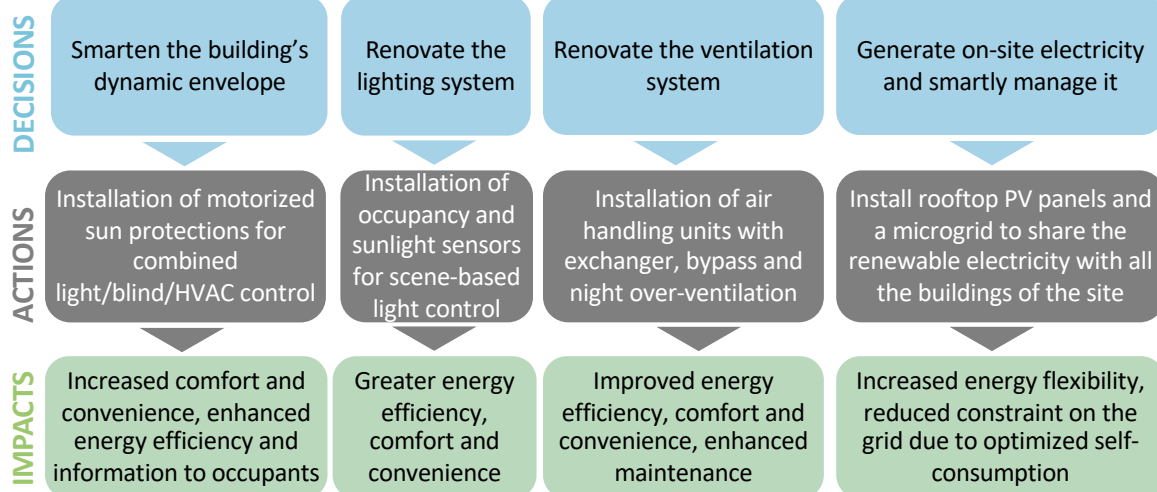
Remote reporting of real-time energy use per energy carrier, combining TBS of at least 2 domains in one interface

10-50% or parking spaces have recharging point

* DHW = domestic hot water

IMPROVEMENT POTENTIAL:

To increase the overall SRI score from **39%** to **51%** :



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