



Technical sheet #7

Technology solution package

	Energy efficiency		Comfort, health and well-being
X	Smart grid readiness		Informed users



Building typology

X	 Residential		 Office
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Short description

Solution package focused on providing energy flexibility to the building. Energy flexibility is the ability of a building to manage its energy demand and generation according to local climate conditions, user needs and grid requirements, while the comfort of the end-users is still guaranteed.

Solution package specific services

Domain	Standard configuration		Proposed configuration
	Monitoring & control		Management of HVAC systems: Individual setting following a predefined time schedule including fixed preconditioning phases
	Smart appliances management		DSM for some TBS (grid signals/load)
	Battery storage Logic: Improve self-consumption		Battery storage Logic: Peak shaving, shifting EV to building

SRI Score¹

	Energy flexibility & storage	+10-20%
	Energy efficiency	+10-20%
	Comfort	+10-20%

Main impacts and added values

- In a grid where the share of intermittent renewable energy sources is growing, smart technologies such as smart sensing and metering, smart appliances, demand side management, energy storage and EVs, aim at optimizing flexible loads by shifting building energy demand in time to create a better match with energy supply and stabilize the grid.
- As a result, building energy flexibility facilitates a further deployment of renewable energy generation and paves the way for energy communities.

¹ Calculated using SRI assessment package v4.4.

https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/smart-readiness-indicator_en