


## Technical sheet #3

### Technology solution package

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


### Building typology

	 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: Scheduled operation	Management of HVAC systems: Self-learning optimal control
			DSM for some TBS (grid signals/load)
			Reporting information on current DSM flows and controls + override function

### SRI Score<sup>1</sup>

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

### Main impacts and co-benefits

- 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.

<sup>1</sup> Calculated using SRI assessment package v4.4.

[https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/smart-readiness-indicator\\_en](https://energy.ec.europa.eu/topics/energy-efficiency/energy-efficient-buildings/smart-readiness-indicator_en)