



Project ID 5578665	Smart Urban Isle - Smart bioclimatic low-carbon urban areas as innovative energy isles in the sustainable city	
Date: 19/04/2017	Deliverable D1.4 – Key Performance Indicators WP2	



D1.4

Key Performance Indicators (M9)

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Executive Summary

Within this deliverable, the Key Performance Indicators (KPI) from a Building's perspective which is the focus of Work Package 2 and a District's one which is the focus of Work Package 4 within the Smart Urban Isle concept are elaborated.

In order to consider the SUI conceptual framework defined in previous deliverables, the indicators are designed to quantify the interaction between buildings and their surroundings in terms of comfort, energy and bioclimatic effects. Also, a further indicator which links the building and the mobility sector as part of the SUI network is provided. As summarized below, the Deliverable is organized into two parts plus an appendix for further work.

WP2

#	Indicator	Unit
1	Comfort acceptability indicators	[-]
2	Yearly energy per m2 per comfort hour	kWh/m ² h
3	Energy saved per comfort improvement	kWh/K
4	Bioclimatic measure effect on energy autonomy	[-]
5	Bioclimatic Renewable energy Index	[-]
6	Building CO ₂ Emission	kgCO ₂ /yr

WP4

#	Indicator	Unit
6	Area Energy Autonomy	%
7	Area Renewable Energy ratio	%
8	Area CO ₂ Emission	kgCO ₂ /yr
9	Area Primary Energy Consumption	kWh/yr
10	Mobility Index	[-]

Appendix

#	Indicator	Unit
A1	Draft of link between Bioclimatic measures and energy consumption	[kWh/h]
A2	Draft of link between energy saved and comfort hours ante and post-operam	[kWh/h]