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Smart Grid-Efficient Interactive Buildings



Buildings as Active Utility Nodes (BAUNs)

EVELIXIA Project

BEFORE

Building/Facilities Owners & Users

How can I exploit my devices' flexibility but still satisfy my IAQ needs?

Systems Operators

How can building assets and DERs relieve my network from congestions?

Energy Market Stakeholders

How can I exploit novel market opportunities to exploit my buildings' flexibility portfolio?

AFTER

Building/Facilities Owners & Users

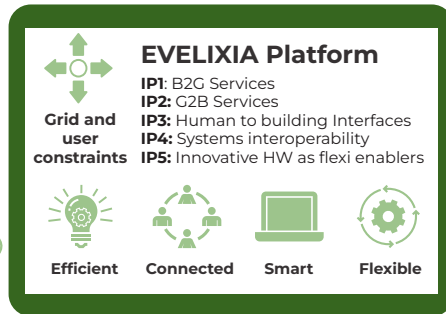
EVELIXIA's BAUNs adapted to occupants needs, it cares for both efficient & healthy buildings

Systems Operators

EVELIXIA grid balancing & congestion management through various cross vector flexible technologies

Energy Market Stakeholders

EVELIXIA effective optimization of energy use through cross vector synergies



Social Engagement and Innovation

Financial and Regulatory Support

7 Pilot Sites: GR, RO, FR, FI, ES, AT, DK

MAIN OBJECTIVES



Cost-effective hardware for energy efficiency



Data-driven SW platform for B2G/G2B services in BAUN buildings



Assess B2G/G2B sustainability in 7 pilots

MAIN IMPACTS



Sustainable living considering individual needs



Building digitalization >2.8 M m2 of floor area per year



Long-term energy savings ≥ 80 GWh/y



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