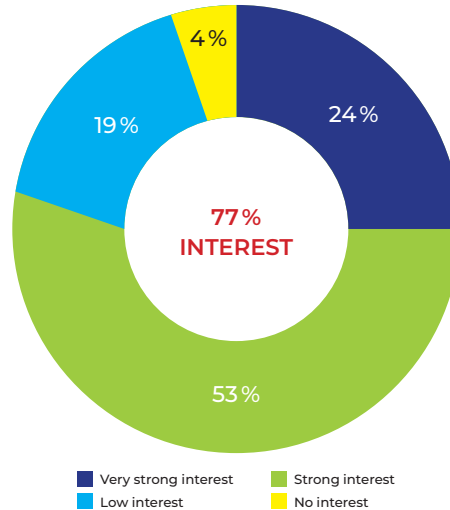


ADVANTAGES TO SOCIETY

- Delivers clean energy transition;
- Reducing GHG;
- Decarbonising flexibility and decreasing dependency on imported natural gas and its impact on energy pricing;
- Connects existing (legacy) energy assets and thus increasing circularity of clean energy transition;
- Increases ownership of energy assets by consumers for rebalancing the influence of powerhouses and energy democracy;
- Increases interest of consumers in environmental issues and the energy transition.

Survey in France carried out by Voltalis SA (project partner) has shown that 77% of responding customers with installed Voltalis Solutions have strong or very strong interest in environmental issues and the energy transition.



ViaEuropa Competence Centre (Slovakia) - Project Coordinator, Voltalis SA (France), Eni Plenitude Iberia SA (Spain), Institute of Systems and Robotics - University of Coimbra ISR-UC (Portugal), Fraunhofer Institute for Systems and Innovation Research ISI (Germany), SEVEN - The Energy Efficiency Centre (Czechia), Joule Assets Europe (Italy-Belgium), Association of Construction Entrepreneurs of Slovakia (Slovakia)

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BUILDING UP NEXT-GENERATION SMART ENERGY SERVICES OFFER AND MARKET UP-TAKE VALORISING ENERGY EFFICIENCY AND FLEXIBILITY AT DEMAND-SIDE (BUNGEEES)



OUR EFFORTS ARE FOCUSED ON

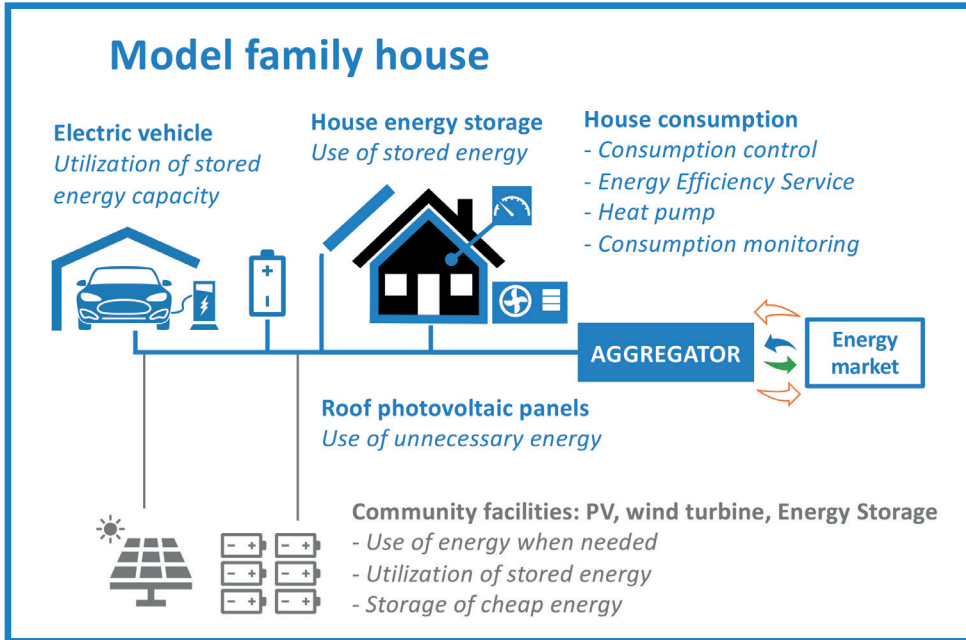
- Developing integrated package (a one-stop-shop package) of novel smart energy efficiency services (EES) integrating energy efficiency and distributed generation, demand response, e-mobility, energy storage/hybrid energy systems and integrating different energy sectors (e.g., electricity with heating and cooling);
- Developing innovative financing and rewarding solutions;
- Integrating non-energy benefits and non-energy services in service packages;
- Identifying market, regulatory and other barriers for integrated energy efficiency for proposing innovative legal, financial, and regulatory solutions to overcome these barriers;
- Applying advanced analytics capabilities to better manage energy consumption in buildings and allow the implementation of the energy services;
- Integrating various markets (balancing market, wholesale market, ancillary services, flexibility market).



WE ARE TESTING SOLUTIONS IN FRANCE, PORTUGAL, SPAIN, CZECHIA AND SLOVAKIA IN:

- Family houses;
- Individual dwellings;
- Multi-family buildings.

OUR MODEL FOR A FAMILY HOUSE (FLEXISMART HOME)

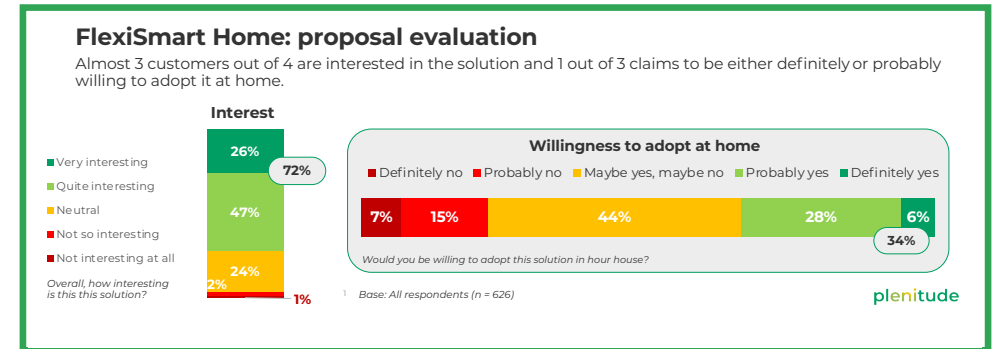


ADVANTAGES FOR CONSUMER

- Lowering energy bills through energy savings (around 15%), consumption control, shifting consumption to lower price periods, self-consumption (individual, collective in a community), reward for providing flexibility to energy systems;
- Applying performance improvements providing benefits for comfort, health, and safety of residents;
- Giving access to new non-energy services, for example, linked to health, mobility;
- Improving SRI score of residential buildings leads to better financing conditions;
- Providing attractive solution to compliance with new requirements on Zero Emission Buildings.



Survey in Spain by Plenitude (Project partner) has shown that 72% customers are interested in the solution developed by the project and that 34% customers are ready to adopt it.



ADVANTAGES TO OPERATORS

- Providing new business opportunities and revenue streams;
- Providing flexibility to energy systems needed for balancing purposes and enabling electrification of other sectors (increase of EVs and heat pumps). This helps in solving congestion and voltage problems to system operators and deferring expensive grid reinforcements;
- Earning the social licence to automate demand side management;
- Decarbonising flexibility and decreasing dependency on imported natural gas and its impact on energy pricing;
- Improving ESG (Environmental and Social Governance) score through 3R: GHG emission reduction, renewable energy exploitation, GHG removal and Storage, and thus improving attractiveness for investments;
- Reduced payback times of investments into sustainable energy and increased viability of services.