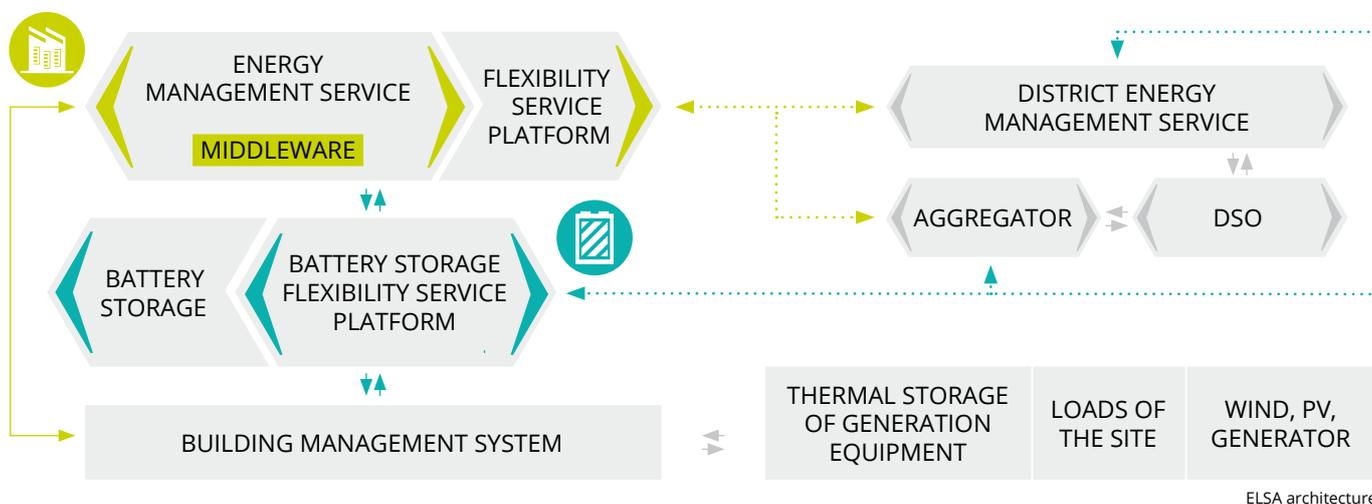


Energy Local Storage Advanced system

Decentralised small and medium-size energy storage systems provide much greater operating flexibility than today's large, centralized energy distribution systems. They ensure a reliable energy supply for buildings and districts and thus enable the integration of a high share of intermittent renewable energy sources. Yet, few such storage solutions are technically mature and economically viable at this stage. Wide-spread application is hindered by the EU's existing legal and regulatory framework.



ELSA addresses this issue by developing a mature and commercially viable, scalable and easy-to-deploy energy storage solution. It is based on **2nd-life batteries operated by an energy management system**. This allows to offer innovative energy services. Existing legal and regulatory barriers are addressed and international standards are pushed forward. At the same time, ELSA develops innovative service-oriented business models. Sustainability and social acceptance are ensured through comprehensive life-cycle and socio-economic impact assessments

and the involvement of citizens and stakeholder groups.

The ELSA consortium brings together 10 partners from five EU countries with various background and expertise. The ELSA battery system will be installed at six sites, including buildings and transformer stations in four countries. They demonstrate grid congestion relief, local grid balancing, peak shaving, voltage support and regulation as potential services. Rele-

vant stakeholders will be involved and an Advisory Board will ensure practical consistency of the outcomes and concord with market expectations.

ELSA demonstration sites: ● DSO ● Building ● District

