

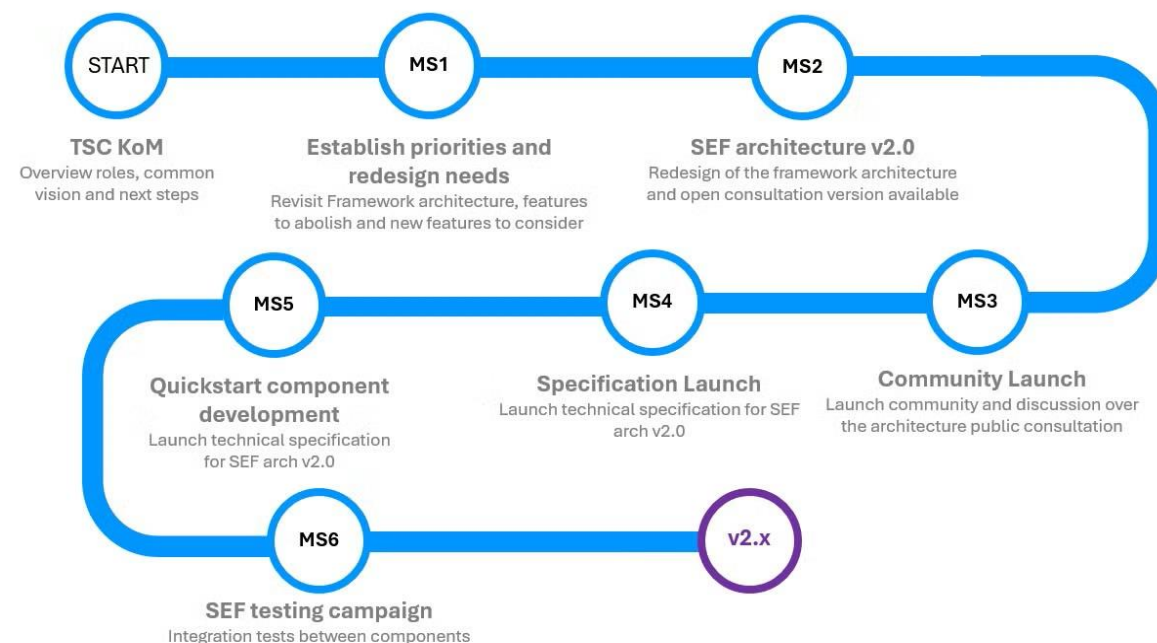
Annual Review for Semantic Energy Framework

OLFENERGY



brief project description

- LFE-SEF builds on the Semantic Interoperability Framework (SIF) developed under the EU Horizon 2020 InterConnect Project (2019–2024), which brought together 50 partners to demonstrate semantic interoperability across smart home, smart building, grid, and IoT domains. The InterConnect SIF delivered the foundational tools, methods, and specifications needed to interconnect semantically enabled services into interoperable ecosystems—capabilities that now serve as the basis for LFE-SEF.
- The framework allows stakeholders to securely exchange heterogeneous data without requiring a centralized platform or disruption to existing systems. Through service adapters, semantic brokerage, reasoning capabilities, and a configurable service catalog, LFE-SEF enables trusted cross-domain information exchange. While rooted in the energy sector, its ontology-agnostic, domain-neutral design supports adoption in adjacent industries such as healthcare, agriculture, and other data-intensive domains.



Organizations contributing and/or using in production



Key Achievements in the past year

- Project launch
- Project steering meetings focusing on:
 - Architectural re-design of the solutions
 - Focusing on new user-roles
 - Feed-in from other system initiatives to reinforce core value

Areas the project could use help on

- Building community and new contributors
- Review (on due time) of architecture re-design
- Validation of ArchiMate assets

Feedback on working with LF Energy

- Initial troubleshoot, onboarding Q/A receives A grade from the SEF team.
- We are still starting, but looking at other more mature projects, we expect to benefit from the community → We expect large community growth in validation of UCs.