



LIFE CET Call 2021

Establish innovative business models and contractual schemes for smart and sector-integrating energy services

LIFE-2021-CET-SmartServices

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Smart and sector-integrating energy services

Objectives

- For a more sustainable and efficient energy system, innovative services are needed:
 - services that reduce consumption
 - optimise energy flows
 - integrate different energy sectors
 - integrate different market segments and actors
 - combine energy services with other benefits.
- The topic wants to support actions that **develop, conceptualise and deploy new business models and concepts** that **increase the value** and **diversify revenue streams** for sustainable energy services

Type of action: Other Action Grants - CSA (95%)



Smart and sector-integrating energy services

Scope

Actions under this topic are expected to

- establish and implement service models that enhance the business case of energy efficiency services by integrating elements that increase the value and diversify revenue streams, e.g. by integrating
 - distributed generation and self-consumption, demand response/ flexibility, including e-mobility etc.
 - electricity with heating and cooling, including making use of heat storage
 - aspects of comfort, consumer satisfaction, safety, health, convenience etc.
 - maintenance and optimisation
 - aggregation of data and visualisation of energy consumption; technical support, communication and advice to end users



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Scope

- establish fit-for-purpose contract models, encompassing technical requirements, performance guarantees, M&V, fair share of benefits, transaction costs etc.
- establish services tailored to capacities and needs and different segments of customers
- develop and integrate tools and methodologies to accurately monitor, verify, report and certify energy savings, energy production and flexibility as well as benefits, e.g. comfort
- establish service models allowing energy efficiency to take part in the organised energy markets or portfolio optimisation of utilities, including as Pay4Performance-schemes
- design integrated service offers meeting the requirements of EED, Article 7
- consider new distributed ledger technologies suitable for energy transactions



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Expected Impacts

- Primary energy savings/renewable energy generation triggered by the project (in GWh/year)
- Customers benefitting from new and smart service offers
- Reduced energy costs for end-users
- Investments in sustainable energy triggered by the project (cumulative, in million Euro)
- Reduced payback times of investments into sustainable energy
- Increased viability of services
- Up-take of services that facilitate the integration of sectors and energy carriers
- Up-take of contractual schemes that ensure legal and regulatory certainty, an attribution of fair shares of value across parties and a minimum of transaction costs
- Up-take of improved methodologies to measure and monetise primary benefits and co-benefits
- Up-take of new and smart energy services that are eligible under EED/ Article 7



Smart and sector-integrating energy services

On-going and concluded H2020 Projects

- NOVICE (2017 – 2020), CSA [At a glance – Novice Project \(novice-project.eu\)](http://novice-project.eu)
- AmBIENCe, (2019 – 2022), CSA [About - AmBIENCe \(ambience-project.eu\)](http://ambience-project.eu)
- SENSEI (2019 – 2022), CSA [Senseih2020](http://senseih2020.eu)
- IBECOME (2020 – 2023), IA ibecome-project.eu
- frESCO (2020 – 2023), IA [frESCO project \(fresco-project.eu\)](http://fresco-project.eu)
- NEON (2021 – 2024), CSA
- SmartSPIN (2021 – 2024), CSA
- V2Market (2021 – 2024), CSA



Smart and sector-integrating energy services

Nota Bene!

- The focus of the topic is on services involving **buildings**, i.e. services provided in, for or linked to buildings
- These services should include an important **element of energy efficiency**
- **Business concepts** are the **core** of the topic - innovative technologies are an important feature but only as enablers (an element of **testing/ validation** is welcome but should not be at the centre of the action)



Thank you



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