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# Horizon 2020 Energy Efficiency Call for Proposals 2019

Enabling next-generation of **smart energy services** valorising energy efficiency and flexibility.

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Energy

## Challenge

- Potential for Energy (Efficiency) Services not sufficiently tapped.
- New opportunities for innovative services and business models:
  - new sectors
  - new actors
  - new technologies -> new types of services
    - responding to the needs of consumers (e.g. comfort)
    - responding to the needs of the energy system and energy market
    - harnessing new sources of value and revenue streams
    - making use of more accurate data for better accounting and monitoring of savings and loads.





## IA 2019

Expected EU-  
contribution:  
≈ Euro 3-4  
million.

Total budget  
available:

EUR 8 Mio

Opening:

12 March 2019

## General Scope

Actions developing integrated concepts and (business) models which

- enhance and refine successful EPC models
- engage new sectors and actors
- integrate energy efficiency services with other energy services (e.g. distributed generation or demand response) and non-energy services
- include pay-for-performance schemes
- include customer-individualised energy services
- factor in legal and contractual aspects

## Scope, more specifically:

Proposed actions should cover several but not necessarily all of the following elements/aspects:

- Energy service models and services targetting new sectors and/or new actors
- Innovative service and business models:
  - integrating energy efficiency with other services (including pay-for-performance schemes); involving non-traditional actors
  - integrating energy efficiency with non-energy features
- Innovative approaches:
  - to make systematic use of big data for energy services
  - to improve accessibility and quality of demand side service providers



# EE-13 Smart Energy Services 2019 - Innovation Action



Focus on **Demonstration and Testing** of innovative energy services in a real environment

while:

- tapping revenue streams across several market segments and actors in the value chain
- using innovative verification and monitoring measures
- considering legal and contractual aspects
- showing self-sustainability (payback though substantial contribution from Energy Efficiency and Demand Response)
- incorporating results of specific future demo projects, if available (smart home interoperability; big data; grid services)
- Taking into account results from CSAs funded under Call 2018

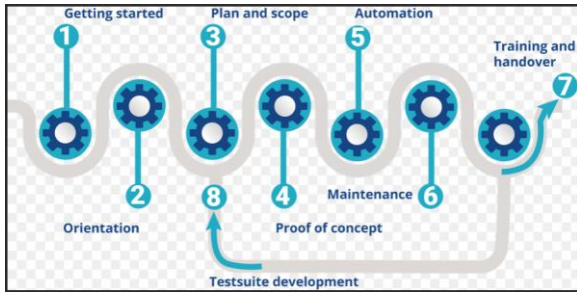




## Expected Impacts

- Primary energy savings
- Investments in sustainable energy
- Improved viability of innovative energy services
- Growing offer and up-take of services combining energy efficiency with other services, technologies and non-energy benefits
- Growing up-take of innovative data gathering/processing in monitoring & verification
- Application of methods ensuring reliable/ verifiable energy services & trustworthy/ accessible service providers.
- Reduction of CO<sub>2</sub> and/or air pollutants

# Note!



- Scope is similar for calls 2018 and 2019 but focus of action (demonstration and testing in real environment) and aspects to be considered are different;
- Actions proposed under Call 2019 do not need to be direct follow-ups of actions funded under Call 2018...
- ...but they will need to take into account relevant results in the course of the action (projects will start in spring 2019)
- Energy Efficiency is at the core of the action and must play an important role within the developed and demonstrated business model.

# Actions funded under Call 2018

foreseen  
to kick-  
off in  
Spring  
2019

- Action aiming to extend the traditional EPC model in three dimensions: (1) extending it to performance guarantees considering the value of flexibility; (2) extending it to building types usually not addressed by EPC and 3) extending it to groups and clusters of buildings. It includes a testing phase for the business models.
- Action aiming to elaborate “Pay for Performance” (P4P) schemes suitable for the EU-markets and integrate these schemes with the EPC model, thus combining valorisation of energy efficiency with valorisation of peak reduction. One important output of the project will be MoU-agreements between energy retailers/suppliers and public authorities as the main contractual partners in such a scheme.





# Thank you!

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