



***European Federation of Intelligent  
Energy Efficiency Services***

# ***The role of energy efficiency services in scaling up energy efficiency***

International conference: “ENERGY EFFICIENCY: AN ACE UP THE SLEEVE FOR ENERGY TRANSITIONS”

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# EFIEES: Who are we?



- **A European trade association** representing more than 100.000 professionals committed to decarbonising our economy on a daily basis in 12 EU Member States.
- **Our Members:** National associations representing Energy Service Companies in their countries and private companies providing Energy Efficiency Services (EES).
- **Our Members activities:**
  - **Design and implement** energy performance solutions according to clients' specific needs;
  - **Proactively manage** the building/asset of the clients to deliver the expected performance;
  - **Guarantee** the results over time.



# Energy management: a profession with human expertise at its core



## The example of an Energy Management Platform:

Efficient energy management provided by EES is the result of an **alliance** of:

- **Experts**
- **Digital solutions**
- On-the-ground capacity of intervention provided by **technicians**

- **Big data are key for energy management today:** In this platform, more than 22 millions of data collected each day from the connected sites
- Thanks to a specially designed and equipped data processing system, the experts can **supervise and steer in real time** the energy use of the facilities managed
- **Development of AI solutions with start-ups** in order to go further and find new and more complex sources of energy savings

# EES benefits: a proactive & tailor-made approach

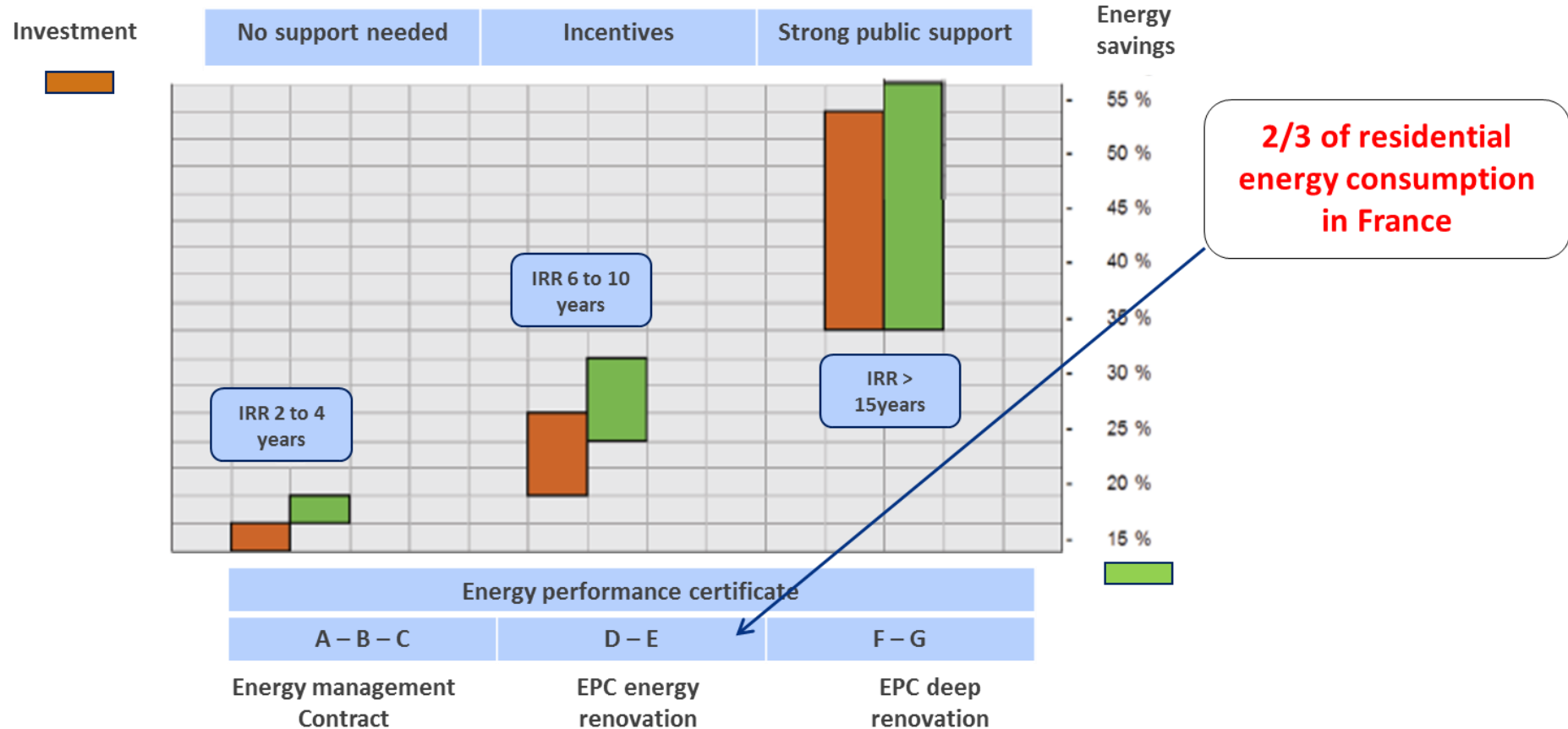
## EES provide for:

- ✓ *A tailored approach: Energy management based on buildings/facilities' specific needs*
- ✓ *Energy performance services covering a wide scope of result oriented actions*
- ✓ *Optimised, limited and relevant upfront investment*
- ✓ *Performance monitored and guaranteed over time (notably in the case of Energy Performance Contracts, EPCs)*



# How to ensure a tailor-made approach?

Addressing specif needs: three main different categories of buildings ➡ three different actions required



# EPC with guaranteed savings. ISPC. Mollet del Vallés (Spain).



## Facilities

- Catalan Public Security Institute (ISPC)
- 17 buildings (administrative offices, dormitories and sports facilities)
- Heating, cooling and hot water systems

## Contract description

- Public tender amount: 7,5M€
- Duration: 12 years
- Content:
  - EE improvements. Equipment up date at the beginning, technical management and performance check.
  - Renewable heating and hot water generation from local biomass.
  - General maintenance. Heating, cooling, ventilation, plumbing, electricity, lifts, etc. Maintenance of constructive elements and gardening.

## Contract fees

- Efficiency fixed fee. It's the energy savings' value. It corresponds to investment amortization, technical management, energy performance checks and industrial profit.
- Maintenance fee. It corresponds to the facility's maintenance costs.
- Biomass fee: It corresponds to the amount of biomass provided by the ESCO.
- Fees for additional maintenance operations.

## Guaranteed savings and performance

Annual energy savings shall be within the following ranks:  
Electricity savings: 20 – 25%; Fuel savings: 10 – 15%; Water savings: 5 – 10%.

A performance plan based on the International Measurement & Verification Protocol shall be presented by the ESCO and verified by the ISPC.

Savings below the target level result in penalties for the ESCO.

***Thank you for your attention!***

***Want to know more about EFIEES?***

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