



# EASME

Executive Agency for Small and Medium-sized Enterprises

## **Addressing energy poverty alleviation through EU funded projects**

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ASSIST webinar "From local to European: barriers and solutions to tackle energy poverty", 9-11 June 2020

# Mitigating energy poverty

- According to Eurostat (2017), 8% of EU population cannot afford to heat their home adequately
- Energy efficiency measures at household level and increased use of renewable energy as tools to address energy poverty
- EU projects contribute to practical and structural solutions:
  - ✓ Energy audits and advice
  - ✓ Investment in energy efficiency and small scale renewable energy
  - ✓ Stakeholders mobilisation & knowledge transfer
  - ✓ Awareness raising
  - ✓ Support to policy making and policy implementation

# Funding opportunities

- EC-2: Mitigating household energy poverty

<https://tinyurl.com/yawb75ck>

- EC-1: The role of consumers in changing the market through informed decision and collective actions

<https://tinyurl.com/ybdhk9tu>

- EE-2: Integrated home renovation services

<https://tinyurl.com/ydc8c5rk>

- EE-16: Supporting public authorities to implement the Energy Union

<https://tinyurl.com/ybol5fnu>

- EE-11: Aggregation- Project Development Assistance

<https://tinyurl.com/ybcbuoub>



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# Horizon 2020 Energy Efficiency Call 2020

## EC-2 Mitigating household energy poverty

Opening: 5 March 2020

Deadline: 10 September 2020

Facilitate **behaviour change** and implementation of **low-cost** energy efficiency **measures** tailored for energy poor households

Support the **set-up of financial and non-financial support schemes** for energy efficiency and/or small scale renewable energy investments for energy poor households

**Develop, test and disseminate innovative schemes** for energy efficiency/RE investments established by utilities or other obligated parties **under Article 7** (Energy Efficiency Obligation Schemes)



# Past and ongoing projects

+4 new projects from Call2019



**ComAct**  
**PowerPoor**  
**ENPOR**  
**EnergyMeasures**



**EmpowerMed**



Executive Agency for SMEs

# Advising on low-cost energy efficiency measures low income households

- **Intelligent Energy Europe (IEE)** : Energy Ambassadors (2009-2011), EC-LINC (2011-2014), ACHIEVE (2011-2014),
  - REACH (2014-2017): over 200 students trained, 1,600 energy audits implemented, nation-wide scheme triggered in Slovenia
  - FIESTA (2014-2017): Energy helpdesks in 14 cities, over 2,300 home energy audits, 500 toe/year primary energy savings
- **Horizon 2020 projects ended:**
  - SMART-UP (2015-2018): More than 500 social workers trained, 4,400 vulnerable households received advice (in Spain 100 unemployed trained and visited 1,800 vulnerable households)
  - SAVES2 (2017-10/2020): 219,000 students involved in 144 dormitories in 14 universities, reduction in electricity used 2-8%
  - ASSIST

# Innovative financial models for energy refurbishment of social housing buildings

- Energy efficiency refurbishment of social housing buildings using innovative financing models such as Energy Performance Contracts (EPC) in Liguria region (Italy)
- Energy Service Companies (ESCOs) take on investments
- Technical assistance for preparation of feasibility studies, up to tender

## Expected achievements:

- Investments of EUR 15 million triggered
- 14.5 GWh/y of primary energy savings
- Over 3.000 families living in 76 Social Housing Buildings impacted (14 municipalities)
- An agreement already reached with banking system to facilitate credit access for ESCOs
- Amendment of regional law to facilitate implementation of EPCs in social housing

<https://enershift.eu>



Calculating and Operationalising  
the Multiple Benefits of  
Energy Efficiency in Europe



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# Quantification of multiple impacts of energy efficiency

- Assessment of multiple benefits from energy efficiency measures (air pollution, resources, social welfare/productivity, economy, energy systems)
- Exploring multiple benefits related to residential and transport sectors, assessing effects of energy efficiency scenarios on increases in disposable house income, improved comfort, health benefits and energy poverty alleviation

## Main energy poverty related public health impacts of EE measures:

- 3.000-24.000 premature excess could weather deaths could be avoided
- 2.700-22.300 disability-adjusted life years (DALYs) of asthma morbidity avoided
- Avoided annual public health damage (2030): 323 million EUR-2.5 billion EUR due to premature mortality and 338 million EUR-2.9 billion EUR due to asthma morbidity



## Empowering women to take action against energy poverty in the Mediterranean

- Focus on health and gender impacts of energy poverty
- Tackles both: heating and cooling needs
- Capacity building of local actors in 6 countries and creation of networks between local health and social professionals
- Strong advocacy work to ensure identified solutions and recommendations are shared with different levels of government

### **Achievements (expected):**

- 10,200 consumers involved in action
- 420 key actors trained on energy poverty alleviation
- 6.5 GWh primary energy saving triggered during project

## Supporting Obligated Parties under article 7 to adopt schemes to alleviate energy poverty

- 8 utilities (representing a large part of the EU energy market) develop, adopt, test and spread innovative energy poverty schemes through renewable energy generation and energy efficiency
- Innovative schemes will include both energy efficiency financing tools and behaviour change interventions
- Tools to identify and tackle energy poverty (replication potential)

### **Achievements (expected):**

- 150,000 energy poor households supported
- 200 GWh of total energy savings
- 41 GWh of renewable energy produced during project

## Projects from last Call 2019 (1/2)

- **ComAct:** making high impact/high cost energy efficiency improvements accessible to energy poor communities in multi-family apartment buildings in 5 Central and Eastern European countries (Bulgaria, Hungary, Lithuania, North Macedonia and Ukraine). Plans to reach energy savings of 10 GWh/year, with ca. 9 million EUR investments triggered.

<https://cordis.europa.eu/project/id/892054>

- **POWERPOOR:** developing support programmes for energy poor citizens to implement energy efficiency measures and participate in joint initiatives, encouraging the establishment of energy communities, making use of alternative financing schemes (e.g. energy communities, crowd funding). Information points to provide advice and network of Energy Supporters and Mentors. Policy component: development of National Roadmaps to alleviate energy poverty and Energy Poverty Guidebook for Energy Planning supporting cities to incorporate actions addressing energy poverty in SECAPs.

<https://cordis.europa.eu/project/id/990437>

## Projects from last Call 2019 (2/2)

- **ENPOR:** making energy poverty in private rented sector visible and quantifiable, by supporting the adaptation and implementation of ten existing energy efficiency policies to energy poor consumers in the private rented sector in seven Member States (AT, DE, EE, EL, HR, IT, NL). To reach over 130.000 consumers, with expected energy savings of up to 135 GWh. To help map energy poverty, an interactive GIS-based tool will be developed to detect and visualise effects of policies on energy poverty at national and regional levels.

<https://cordis.europa.eu/project/id/889385>

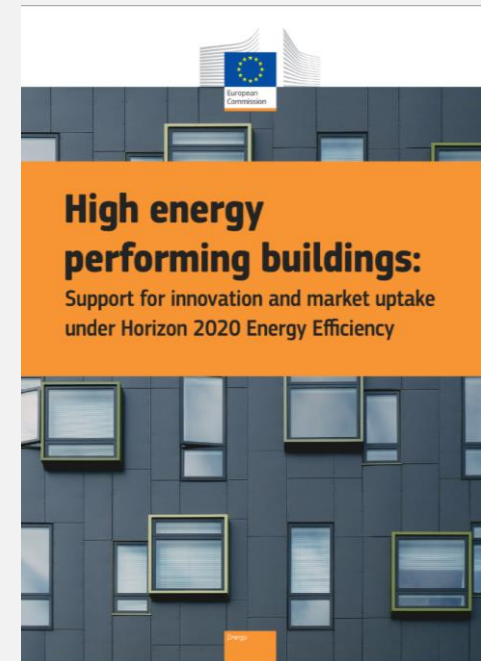
- **EnergyMEASURES:** addressing energy poverty in two ways: working with energy poor households to improve their energy efficiency through low-cost measures and behavioural changes and working with municipalities, energy authorities, housing associations and other relevant actors to address structural issues.

<https://cordis.europa.eu/project/id/894759>

# Building renovation

- High energy performing buildings: Support for innovation and market uptake under Horizon 2020 Energy Efficiency:  
<https://publications.europa.eu/en/publication-detail/-/publication/d8e3702d-c782-11e8-9424-01aa75ed71a1/language-en/format-PDF/source-77709912>

These project results address key challenges at each stage of value chain for new nearly zero-energy buildings, deep renovation of existing buildings and energy smart buildings



## Other relevant projects

- STEP : [www.stepenergy.eu](http://www.stepenergy.eu)
- STEP-IN: [www.step-in-project.eu](http://www.step-in-project.eu)
- SCORE: [www.score-h2020.eu](http://www.score-h2020.eu)
- Transition Zero: [www.transition-zero.eu](http://www.transition-zero.eu)
- TRIME: [www.trime-eu.org](http://www.trime-eu.org)




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**THANK YOU  
FOR YOUR ATTENTION**

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