Demand Response - Residential Innovation for a Sustainable Energy System

Fact Sheet

Project Information

**DR-RISE**
Grant agreement ID: 101104154

**DOI**
10.3030/101104154

**Funded under**
Climate, Energy and Mobility

**Total cost**
€ 7,045,815,00

**EU contribution**
€ 5,894,433,75

**Coordinated by**
IDENER RESEARCH & DEVELOPMENT AGRUPACION DE INTERES ECONOMICO
Spain

**Start date**
1 June 2023

**End date**
31 May 2027

Objective

Due to the current energy crisis, the EU is reaching a critical point in the energy transition with the Clean Energy Package. Residential demand response (DR) is a promising framework whose potential is completely untapped nowadays. DR-RISE's main objective is to demonstrate the benefits of DR in the residential sector, not only for the end-consumers but for the overall energy system and the actors involved. We will offer a holistic set of tools and services with a twofold objective: increase energy efficiency via optimal management and demonstrate the benefits (not only economic) of DR. The platform will be demonstrated in three different EU countries, focusing on
gathered the most diverse environments (e.g. pre-existing energy communities, smart villages, urban blocks of flats, low-income households, etc.). Our approach is completely aligned with the EU's vision to place the citizens at the heart of the solution and empower them so that they can make self-aware decisions. Furthermore, we have developed a methodology around a strong social component that includes a significant co-design process of the tools with the end-consumers, considering vulnerable groups to provide a completely inclusive solution. A first iteration in the pilots will be deployed to assess the DR benefits, including the minimum required devices to do so. Then, building on the previous results, we will iterate a second time by including new hardware and DR approaches to compare the outcomes with the previous baseline. This two-phased methodology will allow us to take corrective measures if needed and assess the potential benefits of multiple sensors and control devices. The platform will therefore reach TRL7/8 by project completion. Furthermore, our plan for dissemination and exploitation, including communication activities, contemplates building the energy helix to reach more than 150 relevant organisations and potentiate clustering activities with initiatives such as BRIDGE and Built4People.

Keywords

Demand response  prosumer  energy market  energy transition
active consumer

Programme(s)

HORIZON.2.5 - Climate, Energy and Mobility
HORIZON.2.5.4 - Buildings and Industrial Facilities in Energy Transition

Topic(s)

HORIZON-CL5-2022-D4-01-01 - Demand response in energy-efficient residential buildings

Call for proposal

HORIZON-CL5-2022-D4-01

See other projects for this call
Funding Scheme

**HORIZON-IA** -

**Coordinator**

IDENER RESEARCH & DEVELOPMENT AGRUPACION DE INTERES ECONOMICO

Net EU contribution

€ 1 712 065,00

Address

Calle early ovington 24-8
41300 La rinconada sevilla
Spain

Region

Sur > Andalucía > Sevilla

Activity type

Research Organisations

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

Participants (12)

**FUNDACION CTIC CENTRO TECNOLOGICO PARA EL DESARROLLO EN ASTURIAS DE LAS TECNOLOGIAS DE LA INFORMACION**

Spain

Net EU contribution

€ 617 125,00

Address

Calle ada byron 39 parque científico y tecnologico
33203 Gijon
KOINONIKI SYNETAIRISTIKI EPICHEIRISI SYLLOGIKIS KAI KOINONIKIS OFELEIAS ILEKTRA ENERGY KOINONIKI SYNETAIRISTIKI EPICHEIRISI ANANEOSIMON PIGO

Greece

Net EU contribution
€ 408 275,00

Address
Olimpionikon 7
45332 Ilioupolis athina

SME
Yes

Region
Βόρεια Ελλάδα > Ήπειρος > Ιωάννινα

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

STAM SRL

Greece

Net EU contribution
€ 408 275,00

Address
Olimpionikon 7
45332 Ilioupolis athina

SME
Yes

Region
Βόρεια Ελλάδα > Ήπειρος > Ιωάννινα

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 174 975,00
TECHNISCHE UNIVERSITAT DORTMUND

Germany

Net EU contribution

€ 597 312,50

Address

August schmidt strasse 4
44227 Dortmund

Region

Nordrhein-Westfalen > Arnsberg > Dortmund, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 97 875,00

ITALY

Net EU contribution

€ 228 375,00

Address

Via pareto 8 ar
16129 Genova ge

SME

Yes

Region

Nord-Ovest > Liguria > Genova

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 97 875,00
ADVANTIC SISTEMAS Y SERVICIOS SL
Spain
Net EU contribution
€ 248 062,50
Address
C zurbano 83 escalera izquierda 3a
28003 Madrid
SME
Yes
Region
Comunidad de Madrid > Comunidad de Madrid > Madrid
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 106 312,50

CROWDHELIX LIMITED
Ireland
Net EU contribution
€ 532 875,00
Address
Trinity house 7 georges quay
T12NAX0 Cork
SME
Yes
Region
Ireland > Southern > South-East

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 228 375,00

---

DGS SPA
Italy
Net EU contribution
€ 340 375,00

Address
Via paolo di dono 73
00142 Roma
Region
Centro (IT) > Lazio > Roma

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 145 875,00

---

ELECTRODISTRIBUTION GRID WEST AD
Bulgaria
Net EU contribution
€ 159 250,00

Address
YUGOIZTOCHNOEVROPEYSKA TEHNOLOGICHNA KOMPANIA OOD

Bulgaria

Net EU contribution

€ 224 437,50

Address

Magnaurska shkola 11 hay teh park izot ofis 316
1784 Sofia

SME

Yes

Region

Югозападна и Южна централна България > Югозападен > София (столица)

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network

Other funding

€ 96 187,50
VOLTALIS SA

France

Net EU contribution
€ 332 718,75

Address
75 avenue des champs-elysees
75008 Paris

SME
Yes

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00
Partners (1)

TRILATERAL RESEARCH LIMITED

Ireland

Net EU contribution

€ 212 187.50

Address

Fdw house blackthorn business park coes road
Dundalk louth

SME

Yes

Region

Ireland > Eastern and Midland > Mid-East

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 90 937.50

SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA

Switzerland

Net EU contribution

€ 0.00

Address
Stabile le gerre
6928 Manno

Region
Schweiz/Suisse/Svizzera > Ticino > Ticino

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 0,00

EC signature date 25 April 2023
Last update: 26 July 2023

Permalink: https://cordis.europa.eu/project/id/101104154

European Union, 2023