



LAUNCH EVENT

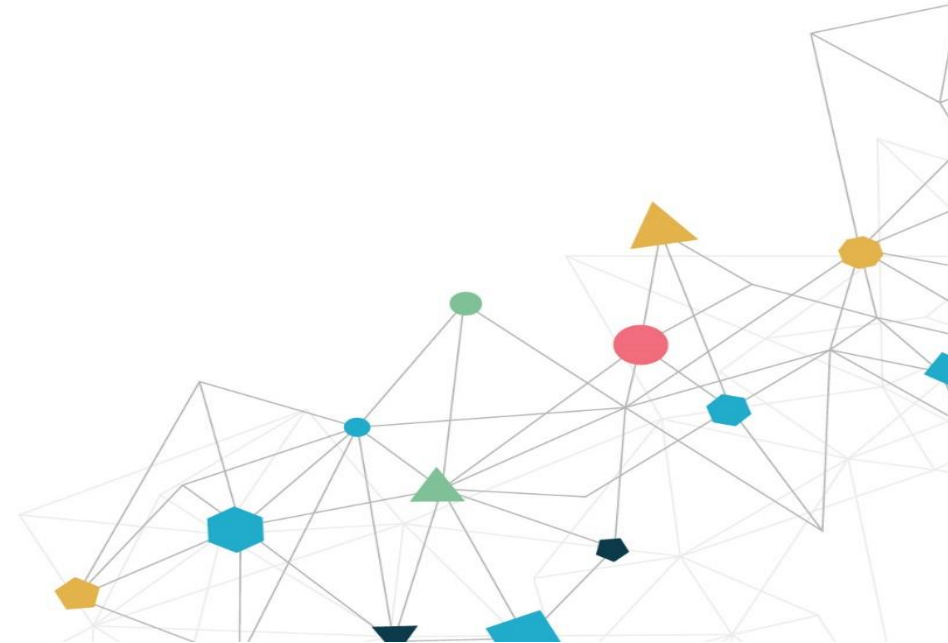
EU
Energy Poverty
Advisory Hub

22-23 November 2021, Online



WORKSHOP

“Inspiring case studies on energy poverty mitigation”



BARRIO SOLAR®

Sharing Renewable Energy in Community of Solidarity

An initiative foster by:



Con la colaboración de:



Why Barrio Solar?

Barriers in cities to mass deployment of domestic self-consumption



Vertical Multi-dwelling

Few free space on roof per neighbour. In addition, many of roof are occupied by private terraces.



Neighbours Agreement

To convince all neighbours of a Building to participate in PV installation or to allow the installation



Investment

Lack of Economic resources to do upfront investment, specially for energy-poor people



Local shops and business

Difficulties for self-consumption for shops and business usually located in ground floor



Property

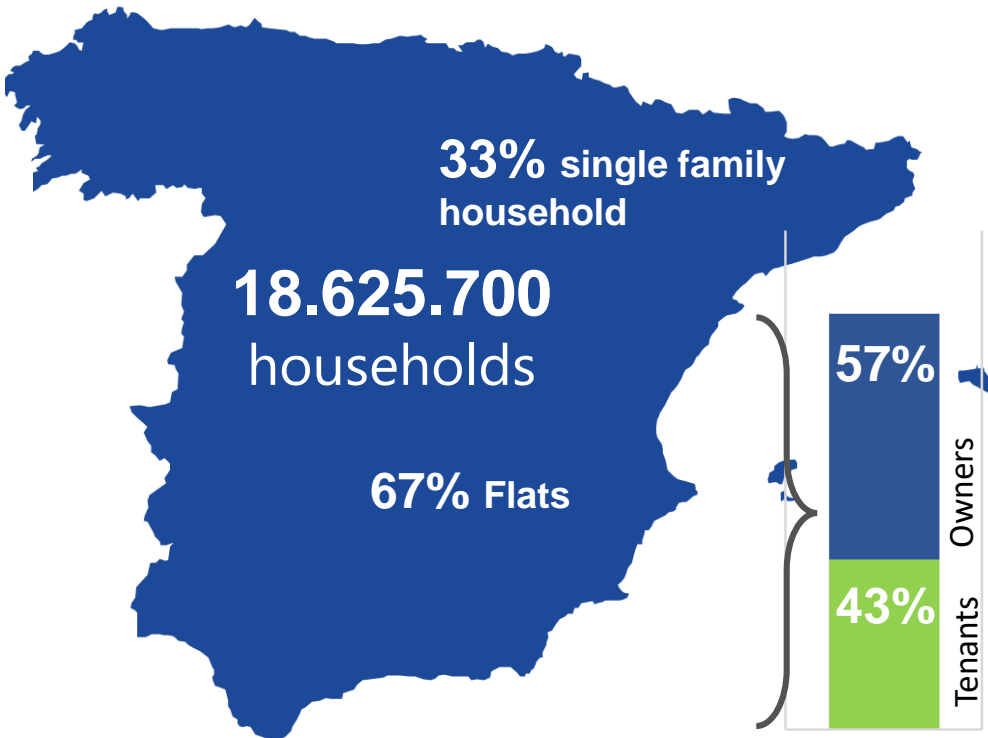
People and businesses that are not owners are not going to invest in a photovoltaic installation.



Trust

People mistrust about energy issues and they are reluctant to change electricity company.

Why Barrio Solar?



33% Single-family owned homes



Few obstacles for individual self-consumption

43% Flats owned



Problems for shared self-consumption in internal network: lack of space in roofs, agreement of neighbours

24% Flats rented



Moreover the above problems, we add that they are not owners and they will not invest in being co-owners of a photovoltaic installation when they are not owners of their flat

Why Barrio Solar?

Energy poverty causes, among others, health problems, especially in elderly people and children, as they cannot keep their homes at an adequate temperature. In addition, it affects domestic economy, having to allocate a high amount of incomes to pay energy bills, with the dilemma of "heat or eat"

Between

7,6 y 16,7 %

of household are in

**Energy
Poverty**



In 2015, the UN approved the 2030 Agenda on Sustainable Development, an opportunity for countries and their societies to embark on a new path to improve the lives of all, leaving no one behind.



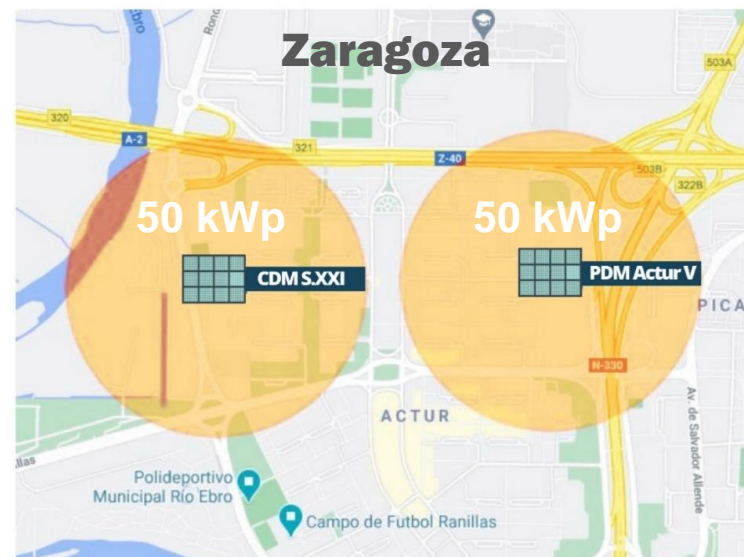
BARRIO SOLAR®

Promote shared self-consumption of solar energy in urban areas through citizen participation and the creation of supportive communities that promote inclusion and environmental awareness in the neighbourhood, favouring people at risk of exclusion and access to affordable and clean energy as it is said by SDG7.

Who Can participate ?

Households, shops, business, associations and entities which are located 500 meters from the Photovoltaic installations.

Barrio Solar® is an initiative developed by the NGO ECODES, The power company EDP, and Zaragoza Council in collaboration with Schneider Electric Foundation and EDP Foundation.



Municipal sports pavilions



Without
Change
electricity
company



Without
permanence



Helping
vulnerable
neighbours



Reducing
Climate
Impact



A fee of 6,9
€/month



30% of
energy
savings



Creating
Energy
culture





Sustainable and Supportive Shops and Business Network

Neighborhood shops and businesses that participate will receive a badge that they can place in their establishment, which will recognize them as sustainable and supportive businesses



10%

of the participants are energy poor families who participate for free

Barrio Solar is an initiative that wants to reach everyone in the neighborhood. For this reason, 10% of the energy generated will be used to help 20 vulnerable families without having to pay any monthly fee.

An energy diagnosis is carried out to energy poor families to advise them on energy efficient habits, to optimize the energy contract, to accompany them to request social bonus, and to implement low-cost renovation



Barrio Solar Office. Creating Energy Culture

The Office carry out activities to increasing knowledge about energy of all residents of the neighborhood, not just the participants. People is advised to reduce their energy bills, how to do household renovations, self-consumption and energy communities.

Main Challenges

Social Challenges :

- To engage people

Administrative Barriers

- To get municipal licenses for installation
- To achieve access to electricity network for distribution company



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