



SHREC
Interreg Europe



European Union
European Regional
Development Fund

Arrasate-Mondragon case

Maria Ubarretxena
Arrasate-Mondragon Mayor

OUR STAKEHOLDER GROUP



An open network which aim is to encourage Debagoiena's transformation.



DEBAGOIENeko MANKOMUNITATEA
GARAPEN EKONOMIKORAKO AGENTZIA

The grouping of the 8 municipalities of the valley.



A living lab from ACEDE Home Cluster to promote innovation in the Home Sector.



The biggest Basque Cooperative Group.



Non-profit electricity marketer cooperative.



A leading knowledge transfer Technological Centre which provides competitive value to companies.



University created in 1997 when three educational cooperatives decided to associate.

SHREC PROJECT IN ARRASATE

It has contributed to:

- Highlight the path through energy transition and the importance of the low carbon economy.
- Rise awareness about the energy transition in the municipal agenda.
- Strengthen relationship with our stakeholders.
- Promote policy changes –through good practices and the implementation of the action plan.
- Learn from European experiences.
- ...

GOOD PRACTICES IDENTIFIED

PV Etxean

The main objective of the "FV_Etxean" initiative was to identify and develop different examples of photovoltaic installations on community dwelling roofs.

H-Enea Living lab helped to develop the guide and D2030 replicated it around the valley.

Local ordinances

Local government uses its legal competence to encourage the installation of FV in the dwelling roofs together with other type of construction through updating the local ordinance.

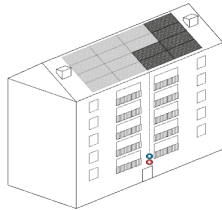
Many of the department participated in the evaluating and re-writing process.

GOOD PRACTICE: PV_Etxean

The initiative PV_Etxean sought to promote the implementation of energy generation facilities from renewable sources in homes in Arrasate. First, an information campaign was proposed, to try to raise awareness, but also to show citizens practical itineraries on the generation and use of renewable energy in homes.

a) Proposal

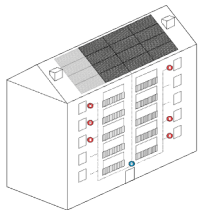
a) Photovoltaic installations for condominium common services.



Part of the energy consumed by the neighbor's community (elevator, stair lights, garage...) would be supplied by the photovoltaic panels installed on the roof.

b) Proposal

b) Photovoltaic installations for particular homes.



Part of the energy consumed by some neighbors in their homes would be supplied by photovoltaic panels installed on the roof of the building, as long as the neighbors would allow it. The surface occupied by the installation will be proportional to the share that each member has.

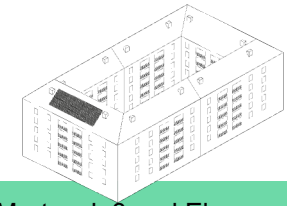
VALUE PROPOSITION

Number of homes	1	4	100
Number of panels	6	8	16
Self-consumption	44%	28%	26%
Savings/home	235 €/year	125 €/year	120 €/year
Cost/home VAT incl.	4.000 - 4.400 €	1.400 - 1.600 €	1.250 - 1.300 €

FV_Etxean Arrasaten: case of study



The case implemented in Arrasate: This photovoltaic panels were installed in October 2021.



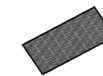
Martxoak 8 and Elma

Photovoltaic installations for condominium common services:

- Garage
- Litf
- Illumination
- Telecom.



Number of Homes 131
(6 hallways)



Number of panels 20 (40m²)



Generation 9.559 kWh/year



Energy saving %42



Savings 1.400 €/year



Amortization 7-8 years

13.795 €
Total Price VAT incl.

105 €
Price per home VAT incl.

New framework:

-Change in local ordinances:

*FV installation ordinance: rural buildings

*Tax burden reduction: average payment real state tax/home 200€.

-New subsidies: EVE.

GOOD PRACTICE: CHANGE IN LOCAL ORDINANCE

Renewable energy ordinance

2007 ordinance that does not allow PV in some kind of buildings

Summer 2021. Deliberative process to change that old ordinance.

2021 autumn evaluation the proposals.

Draft writing with other departments: urban planning, treasury, environment,...

Text approved in February 2022

PV installation	%
PV installations since 2022	46%
Household installations	50%
Installations allowed with the new ordinance	38%

GOOD PRACTICE: CHANGE IN LOCAL ORDINANCE

Fiscal ordinance

Discount of 50% of the full amount of the real estate tax with solar energy systems.

Requirements and conditions:

- The property will be a physical or legal person.
- Buildings who's predominant is residential or is a residential building on undeveloped land (including farmhouses).
- The installations must be voluntarily.
- The bonus will be applied only to the property on which the solar energy use system has been installed.
- The bonus will be applied for a period of 10 years from the tax period following the issuance of the previous approval report.
- It will not exceed 50% of the total cost of the investment, with a maximum of **one thousand euros**.

CHANGE IN LOCAL ORDINANCES: FISCAL ORDINANCE

EXAMPLE 1:

- PV_system investment 3.000 €.
- 50% of the investment: 1.500 €.
- Maximum bonus 1.000 €.
- Maximum 10 years

EXAMPLE 2:

- PV_system investment 15.000€.
- 50% of the investment: 7.500 €.
- Maximum bonus 1.000 €.
- Maximum 10 years

	Year 1	Year 2	Year 3	Year 4	Year 6	Year 7	Year 8	Year 9	Year 10
Real estate tax	550 €	558 €	558 €	561 €	562 €	567 €	567 €	567 €	567 €
Personal Discount		279 €	279 €	281 €	161 €				

	Year 1	Year 2	Year 3	Year 4	Year 6	Year 7	Year 8	Year 9	Year 10
Real estate tax	280 €	281 €	281 €	283 €	283 €	288 €	288 €	288 €	289 €
Personal Discount		141 €	141 €	142 €	142 €	144 €	144 €	144 €	4 €

Every year the treasury department has to recalculate the bonus.

ACTION PLAN: Leintz Bailarako Ekiola

Based on the Lithuanian good practice: IGNITIS PV_Plant.

- Leintz Bailarako Ekikola is a photovoltaic park. 1,255 MW. It would produce energy for 650 families aprox.
- The city council is part of that cooperate, just as promoter.
- Currently 204 families are incorporated. There will be also three firms that would self-consume from the park.
- The action plan has been centred in the socialization of the solar park.
- Actions that were programmed:
 - Meetings in each city (Arrasate, Aretxabaleta, Eskoriatza and Leintz-Gatzaga).
 - Specific meeting for local shops (Arrasate).
 - An itinerary office was opened.
 - Advertisements in local newspaper and online diffusion.



SHREC

Interreg Europe



European Union
European Regional
Development Fund

Thank you!

Questions welcome

www.interregeurope.eu/SHREC



#SHREC
@SHREC_project