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IDAE
Instituto para la Diversificación
y Ahorro de la Energía



RCREEE
Regional Center for Renewable Energy and Energy Efficiency
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة



Mitigation Enabling Energy Transition in the MEDiterranean region

PREE 5000: A financing tool for energy efficiency in buildings

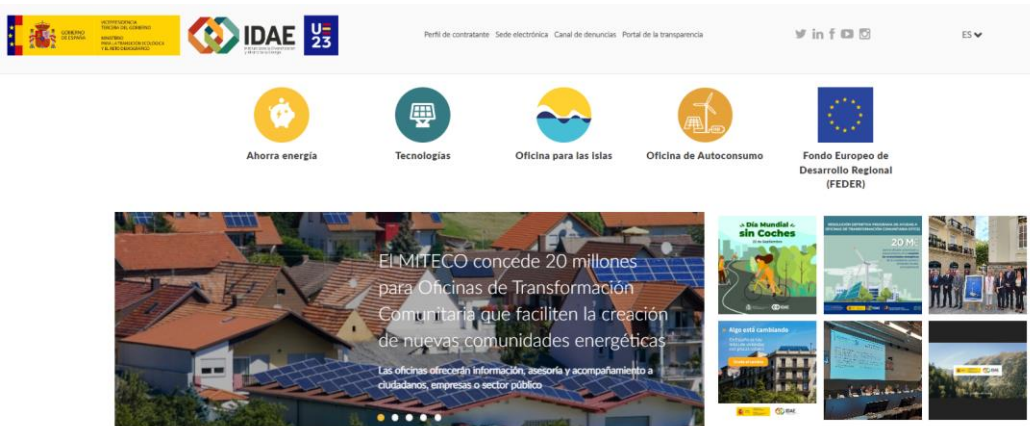
Eva Martínez (IDAE)

7th November 2023

Madrid

What is IDAE?

- **The Institute for the Diversification and Saving of Energy (IDAE)** is a **public business entity** of the Ministry for the Ecological Transition and Demographic Challenge of the **Government of Spain** through the Secretary of State for Energy.
- Its **main goals** are:
 - **Promote energy efficiency** and the rational use of energy in Spain.
 - **Promote the diversification of energy sources** and the increasing use of renewable energies.
 - **Low Carbon Technologies**
- Since 2017, **IDAE** was appointed as an **Intermediate Body** by the Ministry of Treasury and is responsible for the definition and management of the grants co-financed by the Thematic Objective 4 (OT4) within the Spanish Pluri-regional Operational Program.



www.idae.es

Building Energy Renovation Programs Good practices & lessons learned



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MINISTERIO
PARA LA TRANSICIÓN ECOLÓGICA
Y EL RETO DEMOGRÁFICO



IDAIE
Instituto para la Diversificación
y Ahorro de la Energía



Plan de Recuperación,
Transformación y Resiliencia

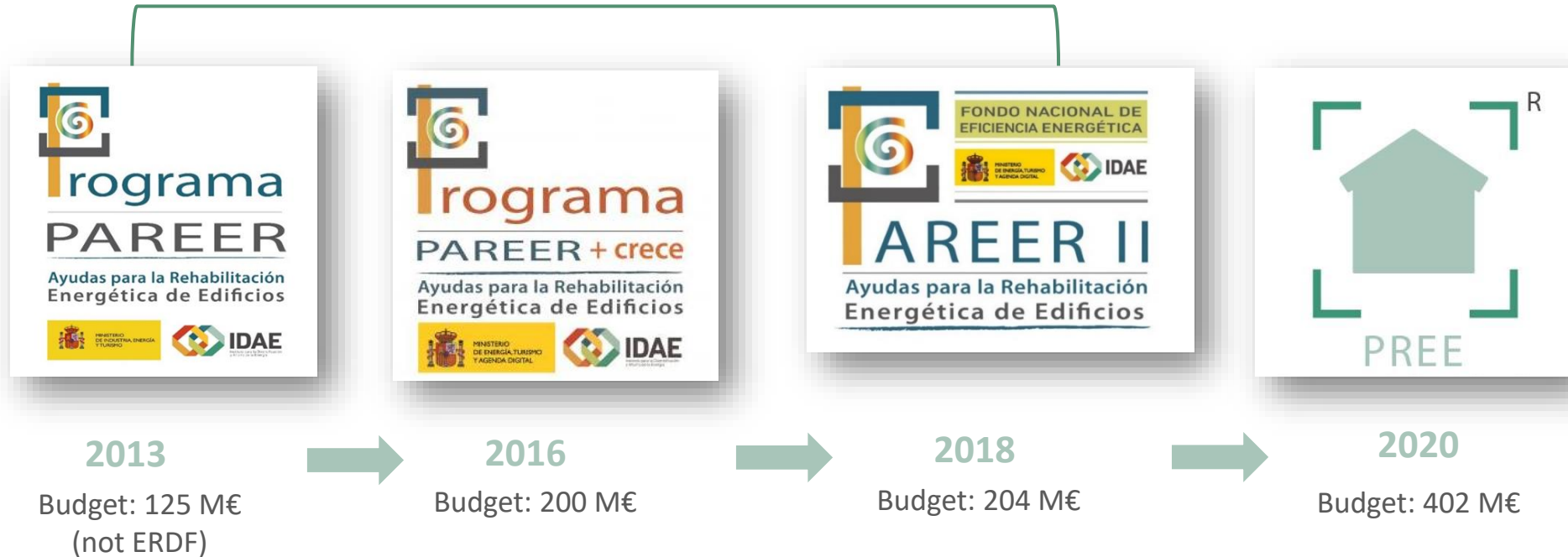


FREE 5000
Programa de Rehabilitación
Energética de Edificios

IDAE's Building Energy Renovation Programs

- **Objectives of the programmes:** to promote deep renovation actions on any type of building to improve the energy efficiency of building façades or their heating and cooling and lighting installations, as well as the integration of renewable energies

Centralized (IDAE)



Total budget PAREER + PAREER-CRECE + PAREER II + PRE: 931 M€



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INSTITUTO PARA LA DIVERSIFICACIÓN
Y AHORRO DE LA ENERGÍA



Plan de Recuperación,
Transformación y Resiliencia



PRE 5000
Programa de Rehabilitación
Energética de Edificios

Building Energy Renovation Programs Key Results – PAREER-CRECE + PAREER II



79.400 homes renovated



620.000.000 €
Mobilized investment




11.300 Direct
employment generated



53 ktoe/year
of final energy saved



157.200 tCO₂
of avoided emissions

Imagen con imagen incrustada 



LA TXANTREA, PAMPLONA

Building Energy Renovation

a dynamic community



Fondo Europeo de Desarrollo Regional (FEDER)
Una manera de hacer Europa

La Txantrea – (Good practices – brochure)





PREE 5000

Programa de Rehabilitación
Energética de Edificios

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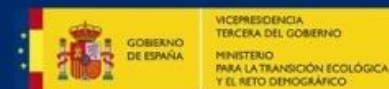
C2.I4 Program for the energy renovation of buildings in municipalities with a demographic challenge



#PlanDeRecuperación

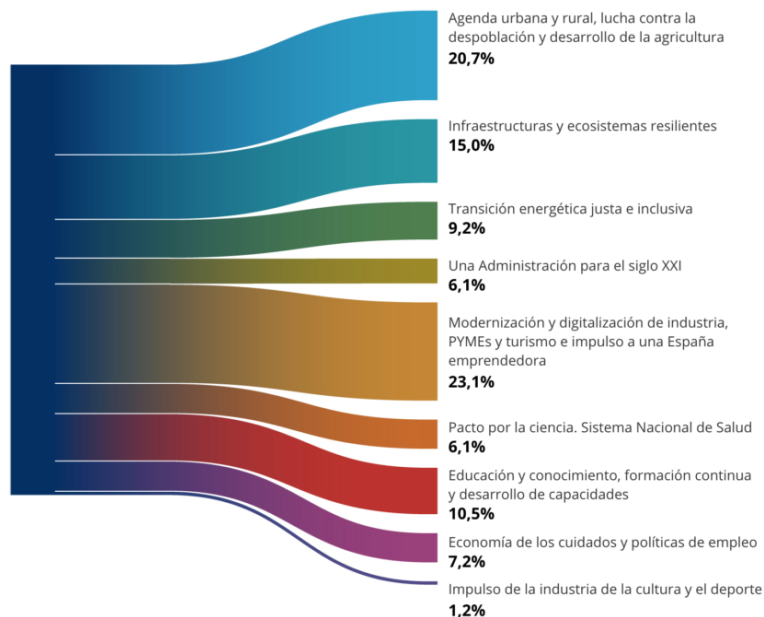


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Recovery, Transformation and Resilience Plan

10 Lever policies 30 components



PREE y PREE 5000

- **PALANCA I** Urban and rural agenda, territorial cohesion and modernization of agriculture
 - Componente 1: Plan de choque de movilidad sostenible, segura y conectada en entornos urbanos y metropolitanos
 - **Componente 2: Plan de rehabilitación de vivienda y regeneración urbana**
 - Componente 3: Transformación ambiental y digital del sistema agroalimentario y pesquero
- **PALANCA II** Resilient infrastructures and ecosystems
 - Componente 4: Conservación y restauración de ecosistemas y su biodiversidad
 - Componente 5: Preservación del litoral y recursos hídricos
 - Componente 6: Movilidad sostenible, segura y conectada
- **PALANCA III** A fair and inclusive energy transition
 - Componente 7: Despliegue e integración de energías renovables
 - Componente 8: Infraestructuras eléctricas, promoción de redes inteligentes y despliegue de la flexibilidad y el almacenamiento
 - Componente 9: Hoja de ruta del hidrógeno renovable y su integración sectorial
 - Componente 10: Estrategia de Transición Justa
- **PALANCA IV** An Administration for the 21st century
 - Componente 11: Modernización de las Administraciones públicas
- **PALANCA V** Modernisation and digitalization of industry and SMEs, entrepreneurship and business environment, recovery and transformation of tourism and other strategic sectors
 - Componente 12: Política Industrial España 2030
 - Componente 13: Impulso a la pyme
 - Componente 14: Plan de modernización y competitividad del sector turístico
 - Componente 15: Conectividad Digital, impulso de la ciberseguridad y despliegue del 5G
- **PALANCA VI** Promotion of science and innovation and strengthening of the capabilities of the Nation Health System
 - Componente 16: Estrategia Nacional de Inteligencia Artificial
 - Componente 17: Reforma institucional y fortalecimiento de las capacidades del sistema nacional de ciencia, tecnología e innovación
 - Componente 18: Renovación y ampliación de las capacidades del Sistema Nacional de Salud
- **PALANCA VII** Education and knowledge, lifelong learning and capacity building
 - Componente 19: Plan Nacional de Competencias Digitales (digital skills)
 - Componente 20: Plan estratégico de impulso de la Formación Profesional
 - Componente 21: Modernización y digitalización del sistema educativo, incluida la educación temprana de 0 a 3 años
- **PALANCA VIII** The new care economy and employment policies
 - Componente 22: Plan de choque para la economía de los cuidados y refuerzo de las políticas de inclusión
 - Componente 23: Nuevas políticas públicas para un mercado de trabajo dinámico, resiliente e inclusivo
- **PALANCA IX** Promotion of the culture and sports industry
 - Componente 24: Revalorización de la industria cultural
 - Componente 25: España hub audiovisual de Europa (Spain AVS Hub)
 - Componente 26: Plan de fomento del sector del deporte
- **PALANCA X** Modernisation of the tax system for inclusive and sustainable growth
 - Componente 27: Medidas y actuaciones de prevención y lucha contra el fraude fiscal
 - Componente 28: Adaptación del sistema impositivo a la realidad del siglo XXI
 - Componente 29: Mejora de la eficacia del gasto público
 - Componente 30: Sostenibilidad a largo plazo del sistema público de pensiones en el marco del Pacto de Toledo



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Plan de Recuperación, Transformación y Resiliencia

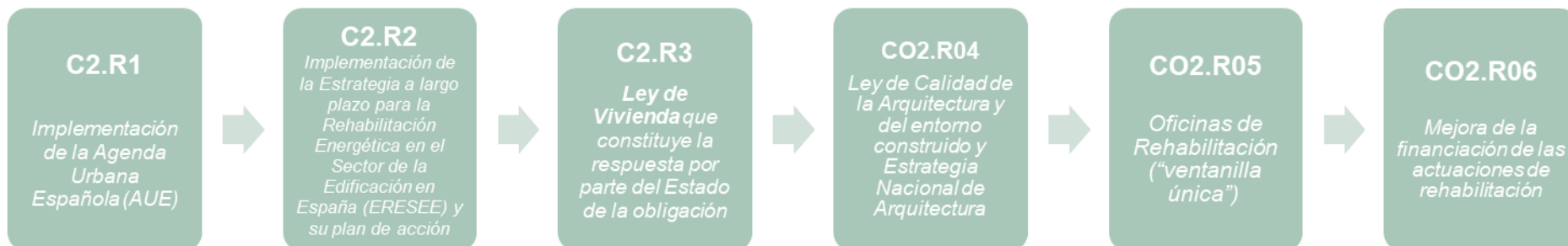


Recovery, Transformation and Resilience Plan

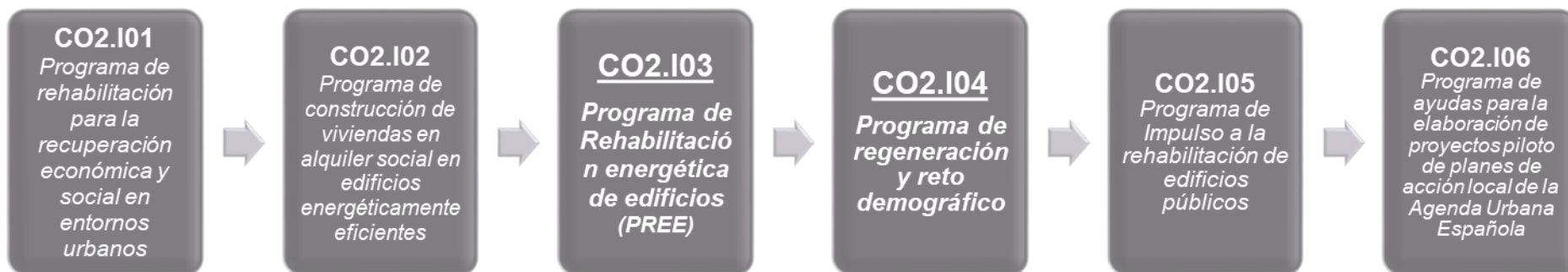
COMPONENT 2

Implementation of the Spanish Urban Agenda: Housing renovation and urban regeneration plan

6 REFORMS



6 INVESTMENTS



Recovery, Transformation and Resilience Plan

COMPONENT 2

Implementation of the Spanish Agenda:
Housing renovation and urban regeneration plan

**RRF* FINANTIAL SUPPORT
(Next Generation EU)**

(BUDGET: EUR 6.820 MILLION)

MITERD (IDAE)

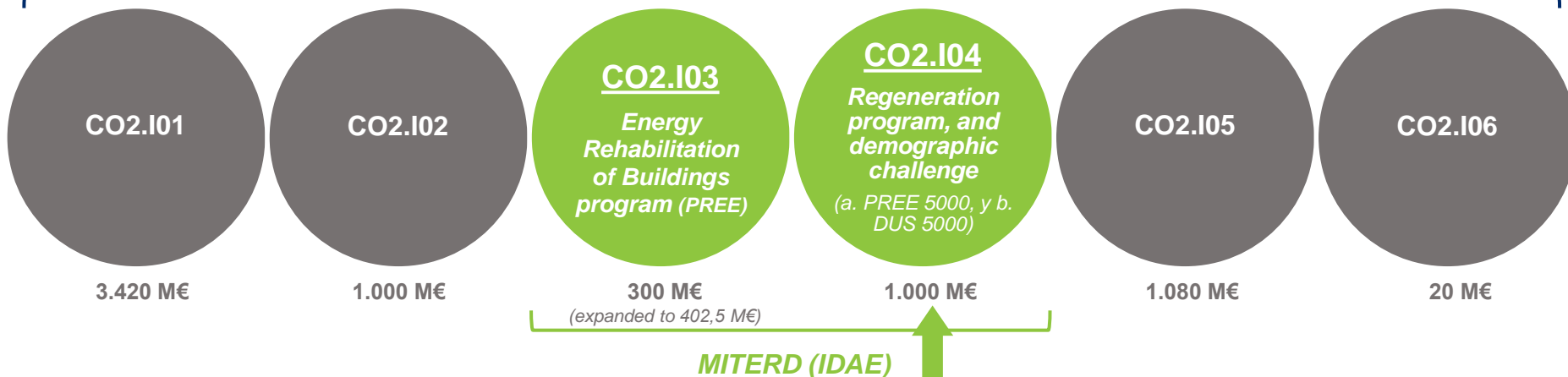
1.300
EUR million

MITMA

5.520
EUR million

*RRF: RECOVERY AND RESILIENCE FACILITY - UT

(INVESTMENTS)



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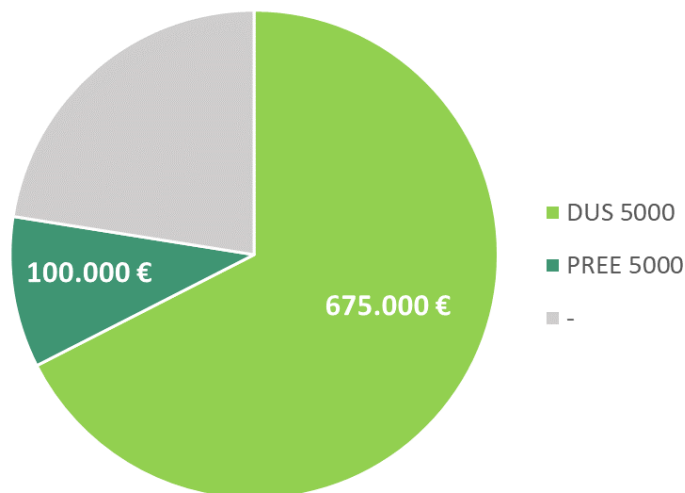


Plan de Recuperación,
Transformación y Resiliencia



C2.I4: Regeneration program and demographic challenge

- 1 • **Budget = 1.000 M€**
- 2 • Ministry for Ecological Transition and the Demographic Challenge as Investment Responsible. MITERD creates legal framework and calls are launched either by IDAE (**DUS 5000**) or regions (**PREE5000**)
- 3 • Programs to be implemented in the form of direct financial assistance, through two main blocks of calls for proposals:



DUS 5000
Program for sustainable urban development projects in municipalities facing demographic challenges

PREE 5000
Energy renovation program for existing buildings in municipalities with demographic challenges

MAIN FEATURES - PREE 5000



Royal Decree 691/2021, 3rd August 2021:

“PREE 5000 Program: Energy renovation program for existing buildings in municipalities with demographic challenges”

Application period: Until 31st of December 2023

Initial budget: 50.000.000 € (up to 130 M €)

Distribution of the Budget by Autonomous Communities:
According to demographic challenge municipalities (17 AC)

GOALS:

Q4 2022: Opening of calls for 26.000 residential dwellings. ***Achieved***

Q2 2026: Complete the Renovation of residential dwellings in municipalities with less than 5000 inhabitants, achieving on average at least a 30 % primary energy demand reduction



1. Municipalities with demographic challenge

Distribution Budget by Autonomous Communities

Municipalities with less than 5.000 inhabitants and population centers with less than 5.000 inhabitants.

TOTAL municipalities: **6.974.**

<https://sig.mapama.gob.es/geoportal/>

** The Budget is distributed among the autonomous communities based on the number of municipalities and population center with less than 5.000 inhabitants.*

Autonomous Communities	* Budget
ANDALUCÍA	5.667.500 €
ARAGÓN	3.697.500 €
CANARIAS	917.500 €
CANTABRIA	15.349.109 €
CASTILLA Y LEÓN	21.890.000 €
CASTILLA-LA MANCHA	17.378.020 €
CATALUÑA	30.565.000 €
COMUNIDAD DE MADRID	1.052.500 €
COMUNIDAD FORAL DE NAVARRA	8.615.000 €
COMUNITAT VALENCIANA	6.365.000 €
EXTREMADURA	2.735.000 €
GALICIA	3.795.000 €
ILLES BALEARS	532.500 €
LA RIOJA	865.000 €
PAÍS VASCO	8.225.298 €
PRINCIPADO DE ASTURIAS	1.339.537 €
REGIÓN DE MURCIA	157.500 €
Total	129.146.965 €



2. Beneficiaries

- 1 **Natural or legal persons** of a private or public nature that own existing buildings for any use
- 2 **Community of owners or groups** of communities of owners of residential buildings for housing use.
- 3 **Operating companies**, tenants or concessionaires of buildings, which accredit the above listed condition;
- 4 **Energy service companies (ESEs)**, or energy service providers;
- 5 **Local Entities** and the institutional public sector of public administrations;
- 6 **Renewable energy communities and citizen energy communities;**
- 7 **Town halls, provincial councils** or equivalent local entities

3. Scope of action

Option A

Complete building renovation:

- Residential buildings
- Non-Residential buildings

Option B

The Autonomous Communities can include as eligible one or several individual dwelling within a building as part of their Calls for Proposals.



4. Types of investment programs for buildings

Typology 1: changes in the **thermal envelope** of the building;

Typology 2: the replacement of fossil-based **thermal generation** facilities with ones based on renewable sources :

Sub-typology 2.1. Replacement of conventional energy by solar thermal energy.

Sub-typology 2.2. Replacement of conventional energy by geothermal energy.

Sub-typology 2.3. Replacement of conventional energy by biomass.

Sub-typology 2.4. Improvement of energy efficiency with systems not included above, such as heat pump.

Sub-typology a 2.5. Installment of energy/thermal regulation and control technologies

Typology 3: Improvement in **energy efficiency in lighting.**



5. Amount of awards

Type of investment	Primary Subsidy		Additional subsidy					
	OPTION A	OPTION B	Building use	additional %: SOCIAL	additional % : Energy Efficiency			additional %: Integrated renovation
					Energy Rating A	Energy Rating B	Increase of or more letters	
T1: Changes in the <u>thermal envelope</u> of the building	50%	40%	Residential	15%	15%	10%	5%	25%
			Non residential	0%	15%	10%	5%	25%
ST2.1. Replacement of conventional energy by <u>solar thermal</u> energy	40%	30%	Residential	10%	10%	5%	0%	20%
			Non residential	0%	10%	5%	0%	20%
ST2.2. Replacement of conventional energy by <u>geothermal energy</u>			Residential	10%	0%	0%	0%	20%
			Non residential	0%	10%	5%	0%	20%
ST2.3.: Replacement of conventional energy by <u>biomass</u>			Residential	10%	0%	0%	0%	15%
			Non residential	0%	10%	5%	0%	15%
ST2.4. Improvement of energy efficiency with systems not included above, such as <u>heat pump</u>.			Residential	0%	10%	5%	0%	5%
			Non residential	0%	10%	5%	0%	5%
ST2.5 Installment of energy/thermal regulation and control technologies			Residential	0%	10%	5%	0%	5%
			Non residential	0%	10%	5%	0%	5%
T3. Improvement in energy efficiency in lighting.	20%	20%	Residential	0%	10%	5%	0%	5%
			Non residential	0%	10%	5%	0%	5%

6. Main RRP requirements for PREE 5000

Energy demands:

1. **Achieving on average at least a 30% primary energy demand reduction**
2. **Improvement of the Energy Performance Certificate, at least in 1 letter**, measured on the CO₂ scale emissions (CO₂ /m² year), regarding the initial certificate.

Waste Management:

- **The Project** Will include a **Waste management and demolition study**, achieving the next conditions::
 - 1^o) **At least 70% by weight of non-hazardous construction and demolition waste** generated on site is prepared for selective demolition, reuse, recycling and revalorization, including on site).
 - 2^o) Operators must limit the generation of waste in construction and demolition processes.
- **The materials used in the rehabilitation Will not contain asbestos.** *The removal of asbestos from the building will be eligible.*

Greenhouse gases:

- Biomass facilities must achieve a reduction in greenhouse gas emissions of at least **80%**.

Biodiversity and ecosystems:

- In sensitive areas in terms of biodiversity and ecosystems, it must be taken into account that the rehabilitation Project does not cause negative effects on spaces included in Natura 2000 Network.

SUMMARY PREE 5000

- **It promotes renewable technologies in the rehabilitation:** of the 7 typologies/sub-typologies of action, there are 4 renewables..
- **The program prioritize actions on the entire building (Option A) over actions of individual dwelling within a building (Option B),** giving a 10% more in the primary subsidy.
- **It promotes projects that integrate renewable technologies and high energy efficiency,** giving an additional subsidy of 5%.
- **Support projects promoted by renewable energy communities** with additional subsidy between 5% and 25%.
- Support with additional subsidy up to 15% on buildings that meet the social criteria.
- Actions in energy efficiency and renewables can reach subsidy up to **100% and 80%**, respectively. However, the State Aid limits must be applied.



Place:

Population center of less than 5,000 inhabitants in the province of País Vasco (North Spain)

Climate zone

C1

Year of construction:

1973

Type of investment:

Single family house

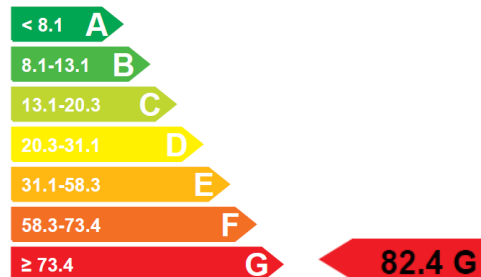
Surface:

302 m²



Before the renovation

CO2 EMISSIONS [kgCO₂/ m² año]



Improvement

Improvement 1

Thermal Envelope (T1)

DEMAND REDUCTION

Improvement 2

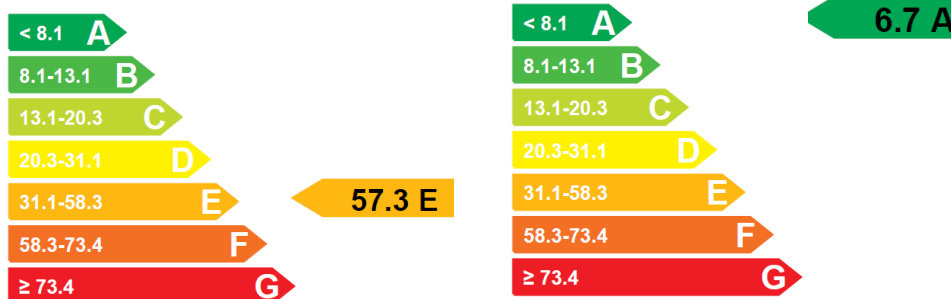
Thermal Envelope (T1)

Geothermal energy (T2.2)

DEMAND REDUCTION + CONSUMPTION REDUCTION

After the renovation

CO2 EMISSIONS [kgCO₂/ m² año]



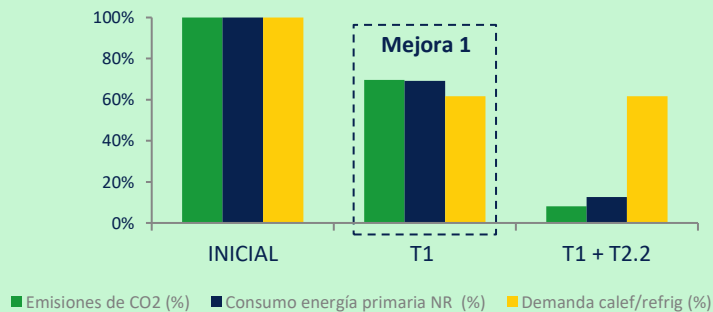
Improvement 1

Typology 1	53.802,75 €
- Primary Subsidy: 50 %	
- Additional Subsidy: Alta eficiencia 5 %	55%
	53.802,75 €
Final Award	55%

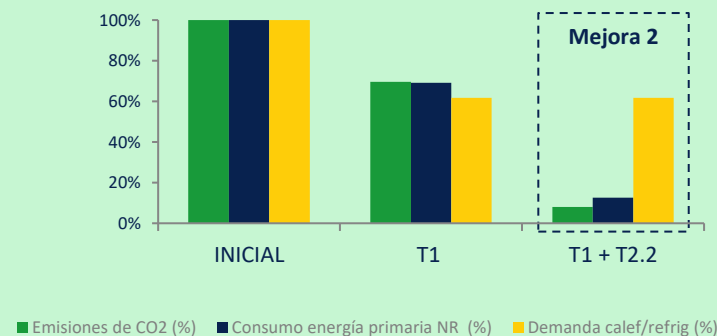
Improvement 2

Typology1	88.040,86 €
- Primary Subsidy: 50 %	
- A. Subsidy: E. Efficiency 15 % + Integrated renovation 25%	90%
Sub-typology 2.2	21.301,25 €
- Primary Subsidy: 40 %	
- A. Subsidy: Integrated renovation 20 %	60%
	109.342,11 €
Final Award	82,01%

Improvement summary:



Improvement summary:



30% reduction of primary energy consumption

Reduction: 30,81 %



30% reduction of primary energy consumption

Reduction: 87,32 %



Contact us!



Mitigation Enabling Energy Transition in the MEDiterranean region
Together We Switch to Clean Energy

For any inquires or comments, please don't
hesitate to contact us

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Organization: IDAE

(MITERD-Ministry of Ecological Transition and Demographic
Challenge)

 www.meetmed.org

 meetMED Project

 @meetmed1



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