



PO SEUR

OPERATIONAL PROGRAMME FOR SUSTAINABILITY AND EFFICIENT USE OF RESOURCES

BRUNO PIMENTA

7TH ENERGY AND MANAGING AUTHORITIES (EMA) NETWORK MEETING
4 JUNE 2018

PORTUGAL 2020

MAIN PRIORITIES IN THE SUSTAINABILITY DOMAIN 2014-2020

MAIN CONSTRAINTS

- X Portuguese economy high **energy intensity**
- X **Inefficiencies** in the resources management and use
- X **Vulnerabilities** when facing the different natural and technological risks
- X **Weaknesses** in protection of environmental values



MAIN PRIORITIES FOR MOBILISING COMMUNITY FUNDS

- **SUSTAINABLE** valorisation and use of endogenous resources
- Promotion of **EFFICIENCY** in the use of resources
- **Prevention** of risks, **adaptation** to climate changes and environmental **protection - Resilience**
- Transition to a **low carbon economy** – **Improving Environmental Quality** and **COMPETITIVENESS** Factors

PORTUGAL 2020

DOMAIN: SUSTAINABILITY AND EFFICIENCY IN THE USE OF RESOURCES

SEUR DOMAIN

Is financed by the **PO SEUR** and by the **Regional Operational Programmes (OPs)** of the Mainland and Autonomous Regions of Azores and Madeira

[Each OP finances some Areas of Investment]

PO SEUR

It's a **National Thematic Programme**, dedicated exclusively to the **Environment and Efficiency in the Use of Resources**

PORTUGAL 2020

SEUR DOMAIN ALIGNED IN ACHIEVING THE ENERGY TARGETS

- **National Action Plan for Energy Efficiency (PNAEE 2020)**

Reducing primary energy consumption by 25%

- **Eco.AP Programme (Public Sector)**

Reducing primary energy consumption by 30%

- **National Action Plan for Renewable Energy (PNAER 2020)**

Incorporation of RS $\frac{\text{In the final energy consumption by 31\%}}{\text{In the transport sector by 10\%}}$



Compromisso para o
CRESCIMENTO VERDE

**Europe 2020
Strategy**

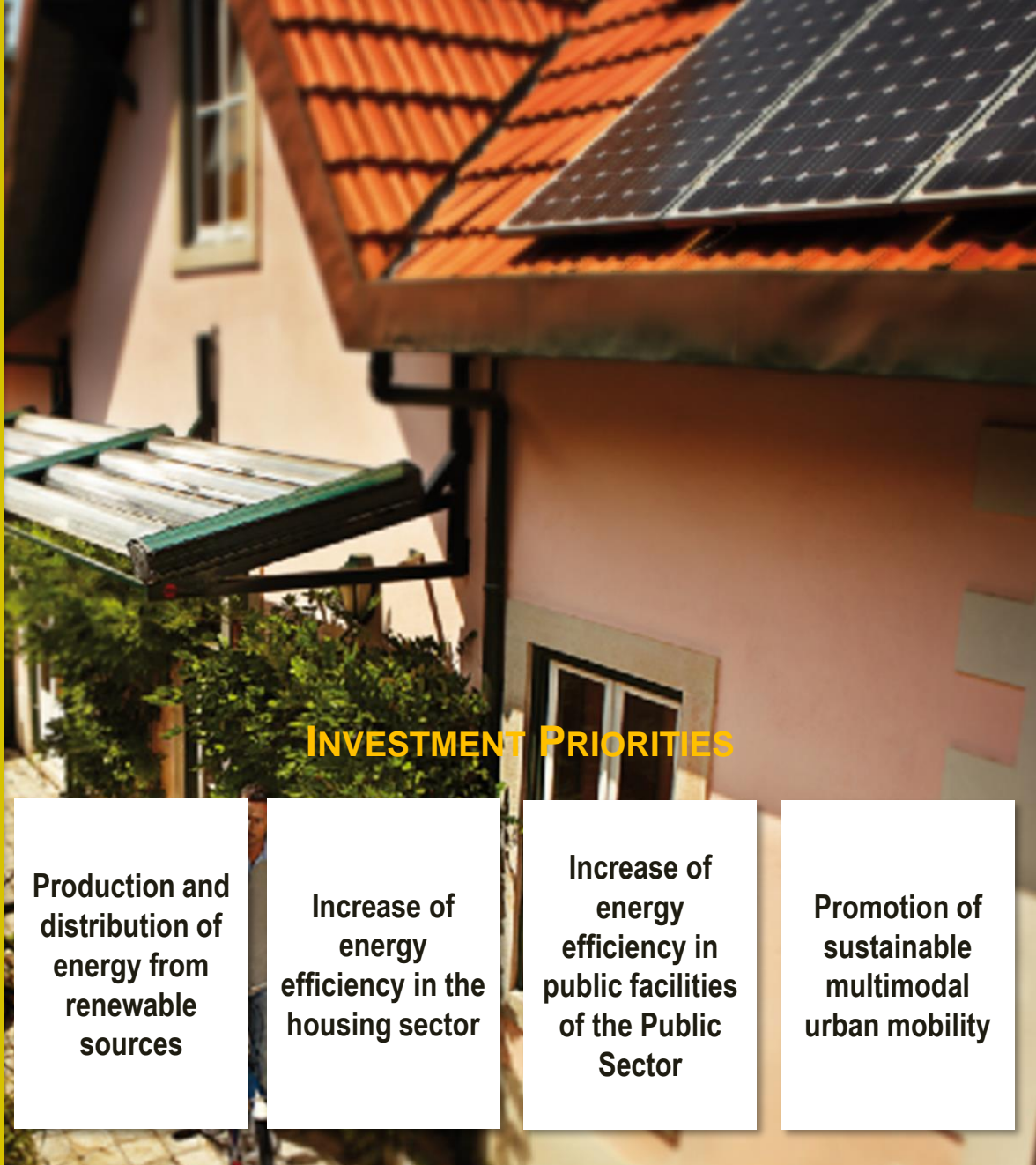
FINANCING FOR THE DOMAIN OF SUSTAINABILITY AND EFFICIENCY IN THE USE OF RESOURCES

	TO 4 <small>THEMATIC OBJECTIVE 4</small> Support the transition to a low carbon economy in all sectors	TO 5 <small>THEMATIC OBJECTIVE 5</small> Promote the adaptation to climate changes and risk prevention and management	TO 6 <small>THEMATIC OBJECTIVE 6</small> Protect the environment and promote resource use efficiency	Total
Million € Cohesion Fund and ERDF				
PO SEUR	757,0	401,2	1.045,0	2.252,7
Regional OPs from Mainland	766,3	0,0	727,4	1.493,7
Regional OPs from Autonomous Regions	66,7	31,8	82,8	181,3
Total	1.590,0	433,0	1.855,2	3.927,7

PRIORITY AXIS 1

SUPPORT THE
TRANSITION TO A LOW
CARBON ECONOMY IN
ALL SECTORS

757 M€ COHESION FUND



INVESTMENT PRIORITIES

Production and
distribution of
energy from
renewable
sources

Increase of
energy
efficiency in the
housing sector

Increase of
energy
efficiency in
public facilities
of the Public
Sector

Promotion of
sustainable
multimodal
urban mobility

**INVESTMENT
PRIORITIES**

SPECIFIC GOALS

**PERFORMANCE
INDICATORS**

2023 AIM

Promotion of production and distribution of **energy from renewable sources**

Diversification of the renewable endogenous energy sources ensuring the **connection** of production facilities **to the grid** and thus **decreasing the energy dependence**

Penetration of renewable resources in electric energy production in Madeira (27%)

35,0%

Renewable energies produced via technologies based on the **national energy production (754,3 Mw)**

863 Mw

Support to **energy efficiency**, energy smart management and use of renewable energies

Within the scope of **the state's central administration**

Primary energy consumption in central administration buildings **(283.138 tep)**

198.196 toe

Housing sector

Primary energy consumption in housing (private) **(2.657.035)**

1.992.776 toe

Strategies of **low carbon content**, including the promotion of **sustainable multimodal urban mobility** and relevant adaptation measures for mitigation

Support **energy efficiency** measures and transports **consumption rationalisation** measures

Primary energy savings in public transportation fleets **(0,9%)**

1,4 %

Support the promotion of **ecological transports** and **sustainable mobility**

No. of **electric vehicles (456)**

33.663

Approved Goals

Approved Cohesion Fund

Production and distribution of energy from renewable sources



33 MW

50 M€

Energy efficiency and use of renewable energy in buildings

Public Sector



-259 077 974 kWh/year

138 M€

Housing sector



3 200 households

40 M€

Promotion of sustainable multimodal urban mobility



510 clean buses

47,87 M€



1 480 charging points

4,14 M€



3 200 bikes

4,77 M€



energy efficiency in public facilities within the scope of the Public Sector



See more at:


<https://www.youtube.com/watch?v=LJIXW1cHot4>





TYPES OF OPERATIONS

► Increase of energy efficiency in buildings and equipment

 Installation of thermal insulation in walls, roofs and floors

 Replacement of window frames and/or replacement of single glass window for double glass (or a more efficient solution)

 Replacement of existing systems with high efficiency systems: increase energy efficiency in space heating and cooling, ventilation and domestic hot water

 Efficient interior and exterior lighting
(excluding public lighting)

 Building automation and control system

CALL FOR APPLICATIONS **POSEUR-03-2016-65** | ENERGY EFFICIENCY IN PUBLIC INFRASTRUCTURE WITHIN THE STATE'S CENTRAL ADMINISTRATION

TYPES OF OPERATIONS

➤ Renewable Energies for self-consumption, integrated with energy efficiency measures



Installation of solar thermal panels for domestic hot water production and heating



Installation of energy production systems for self-consumption from renewable energy sources

max. of 30% of total eligible investment and provided that it is part of an integrated solution to the energy efficiency

➤ Audits, studies and assessments of ex-post evaluations of the energy efficiency performance

CALL FOR APPLICATIONS **POSEUR-03-2016-65** | ENERGY EFFICIENCY IN PUBLIC INFRASTRUCTURE WITHIN THE STATE'S CENTRAL ADMINISTRATION

103 approved projects
In all regions of Portugal (Mainland)

153 millions of euros (M€)
of Total Investment

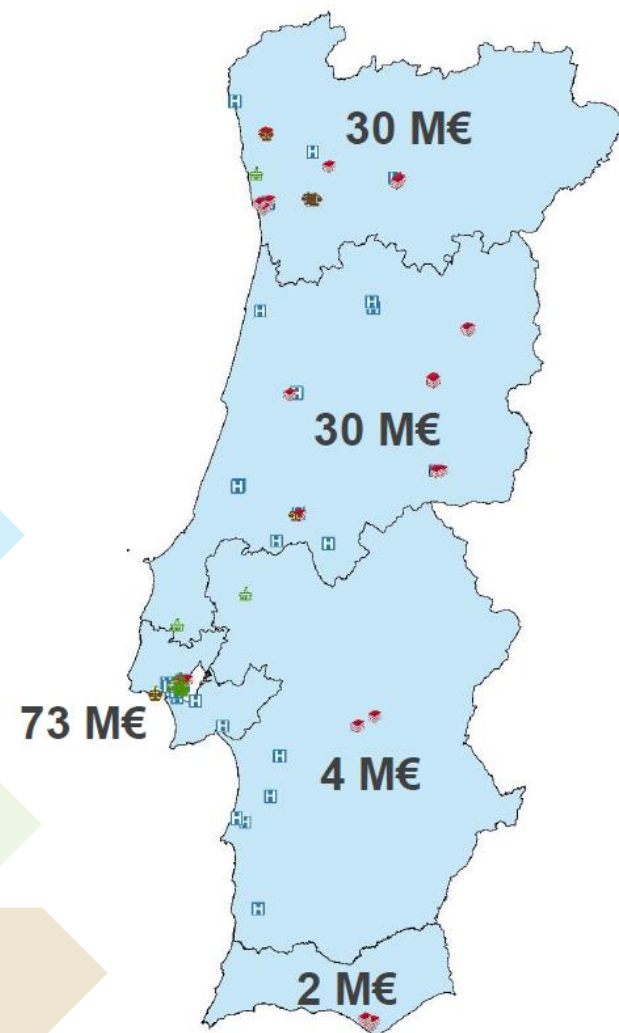
138 millions of euros
of support from the Cohesion Fund

40 Hospitals and Health Centers
108 M€ Cohesion Fund

48 Higher Education Institutions
24 M€ Cohesion Fund

10 Central Administration Buildings
5 M€ Cohesion Fund

5 Courts
1 M€ Cohesion Fund



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results to achieve

24.000 toe

tonnes of oil equivalent of reduction of primary energy consumption in public buildings (annual estimative)

270 millions of kWh

of reduction of primary energy consumption in public buildings (annual estimative)

48 000 tCO₂eq

tonnes of carbon dioxide equivalent of reduction of greenhouse gas emissions (annual estimative)



10,8 M€

of estimated annual reduction of public energy bill in public buildings



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results to achieve

103 buildings

of the Central Administration with energy consumption improved

1 770 000 m²

sum of building area to be supported

540 000 m²

of thermal insulation to be applied in walls, roofs and floors

44 700 m²

of efficient windows to be installed

8 500 m²

of solar thermal panels to domestic hot water production

14 900 kW

of power to be installed in energy production systems for self-consumption (solar PV)

8 000 kW

of power decrease in indoor and outdoor lighting



CALL FOR APPLICATIONS **POSEUR-03-2016-65** | ENERGY EFFICIENCY IN PUBLIC INFRASTRUCTURE WITHIN THE STATE'S CENTRAL ADMINISTRATION

energy efficiency in public transport of passengers



See more at:

<https://www.youtube.com/watch?v=1xmFd6Pq4f8>



TYOLOGIES OF OPERATIONS



Acquisition of vehicles for public urban passenger transport, that use cleaner energy sources (compressed natural gas, liquefied natural gas, electric power, hydrogen)

PO SEUR supports 85% of the difference between the cost of a conventional bus and a clean bus.



Installation of charging (or filling) stations

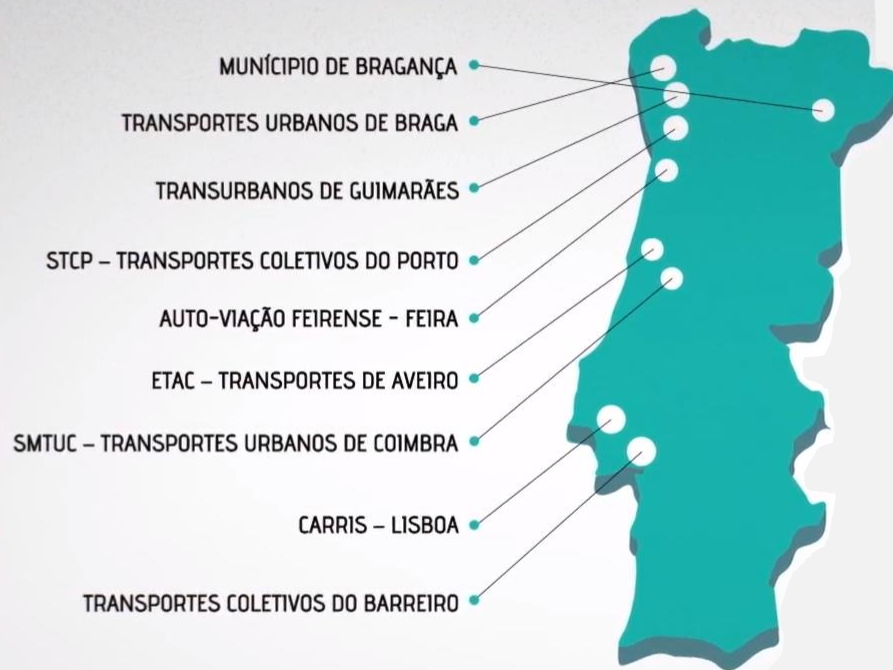


Other actions like specific technical assistance, actions of communication and awareness, monitoring of results

conditioned to the acquisition of clean buses and limited to 20% of total eligible cost of the application



CALL FOR APPLICATIONS **POSEUR-07-2016-71** | ENERGY EFFICIENCY IN COLLECTIVE PUBLIC TRANSPORT OF PASSENGERS RESPONSIBLE FOR PUBLIC SERVICE



9 approved projects
145 M€ total investment
46 M€ from Cohesion Fund

510 new clean buses
72 electric buses
438 natural gas buses

35 loading stations
31 for electrical energy
4 for natural gas



CALL FOR APPLICATIONS **POSEUR-07-2016-71** | ENERGY EFFICIENCY IN COLLECTIVE PUBLIC TRANSPORT OF PASSENGERS RESPONSIBLE FOR PUBLIC SERVICE

results to achieve

3,2 millions of km

increase in the number of traveled kilometers (annual estimative)

510 buses

old and polluting, that are going to be retrofitted

8,6 millions of liters

of diesel consumption avoided and replaced for cleaner energy sources



3.197 tCO₂eq

tonnes of carbon dioxide equivalent of reduction of greenhouse gas emissions (annual estimative)



CALL FOR APPLICATIONS **POSEUR-07-2016-71** | ENERGY EFFICIENCY IN COLLECTIVE PUBLIC TRANSPORT OF PASSENGERS RESPONSIBLE FOR PUBLIC SERVICE



MUITO OBRIGADO!

THANK YOU VERY MUCH!

BRUNO PIMENTA



<https://poseur.portugal2020.pt>

<https://poseur.portugal2020.pt/en>

