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**EXPRESS**

## **Marche Region**

**sustainable transport and the development of hydrogen economy projects/aspirations**

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**THEMATIC WORKSHOP Sustainable transport and hydrogen oriented projects/solutions in the framework of low energy consumption**  
**RZESZOW, Tuesday 24th of October 2023**

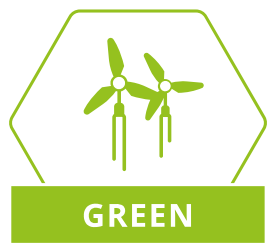
**REGIONE  
MARCHE**



## EXPRESS 2023–2027

The EXPRESS project aims to decrease the regions' dependency on energy imports and fossil energy and to increase their energy self-sufficiency and share of renewable energy by improving regional policies.

[www.interregeurope.eu/EXPRESS](http://www.interregeurope.eu/EXPRESS)



TOTAL  
1.9 MEUR



# What kind of organization we are:

## Marche Region (Regional Government)

Marche is an autonomous Region within the unity of the Italian Republic and within the European Union. Its own functions and competences are exercised in respect of the Constitution and according to the norms of the Regional Statute.



Marche Region is situated in the middle of the eastern side of the Italian peninsula. It is faced on the Adriatic Sea off the coast of the Balkans with which it has historically maintained strong contacts and recently an intense territorial cooperation.



## MARCHE REGION



*Residents (n):*  
**1.489.789**



*Total area (km2):*  
**9.401**



*Per capita GDP at market price (€):*  
**26.179**



**December 2021**, approved the  
Regional Strategy of Sustainable  
Development

227 Municipalities and 5 Provinces



# Marche Region



## Who are we?

- > The Energy resources, Waste Management and quarries and mines Sector of Marche Region is in charge of the regional system of energy management and planning (Regional Managing Authority).
- > It manages local and international projects on climate change and energy, on renewable energy and energy efficiency. It approves the financing calls, defines the evaluation and priority criteria of the projects, defines the indicators for monitoring the impact of the implemented actions.
- > It set up own "Regional Environmental Energy Management Plan" (2016) that includes the "Regional energy strategy to 2020".

## Our objectives in EXPRESS project

- > The promotion of renewable energy in self-consumption, the financial support for the energy efficiency of production processes and buildings, with attention to public buildings, are a major priority.
- > Marche Region aims to reach the objective that it has set itself in terms of energy self-sufficiency to reverse the trend of the energy deficit to pursuit the EU objectives of renewable sources.
- > And to increase the share of renewable energy on final consumption to 40%, focusing on self-consumption of renewable energy, supporting the development of renewable energy communities and technological innovation.

## Overseeing the interests of

**PEOPLE**  
1,500,000  
inhabitants



**MUNICIPALITIES**  
made up of 239  
municipalities



**ORGANIZATIONS**



**ENTERPRISES**



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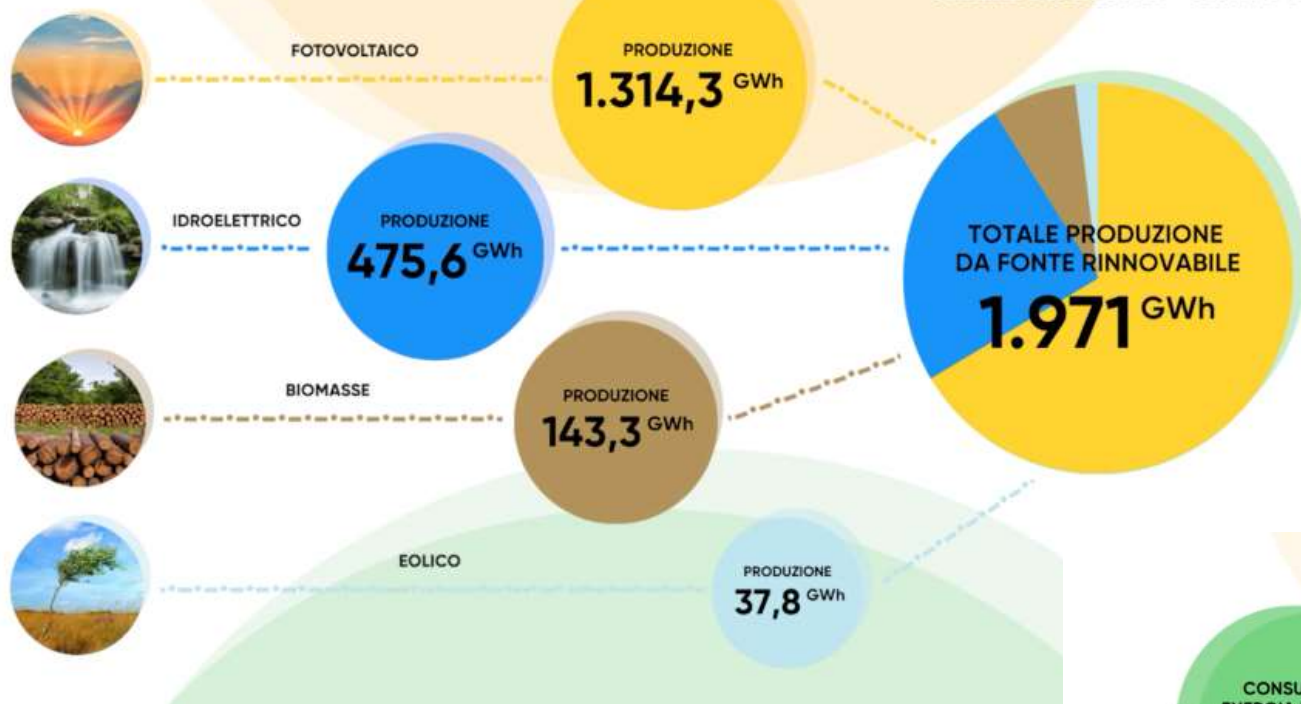
EXPRESS

# THE POLICY INSTRUMENT ....(S)

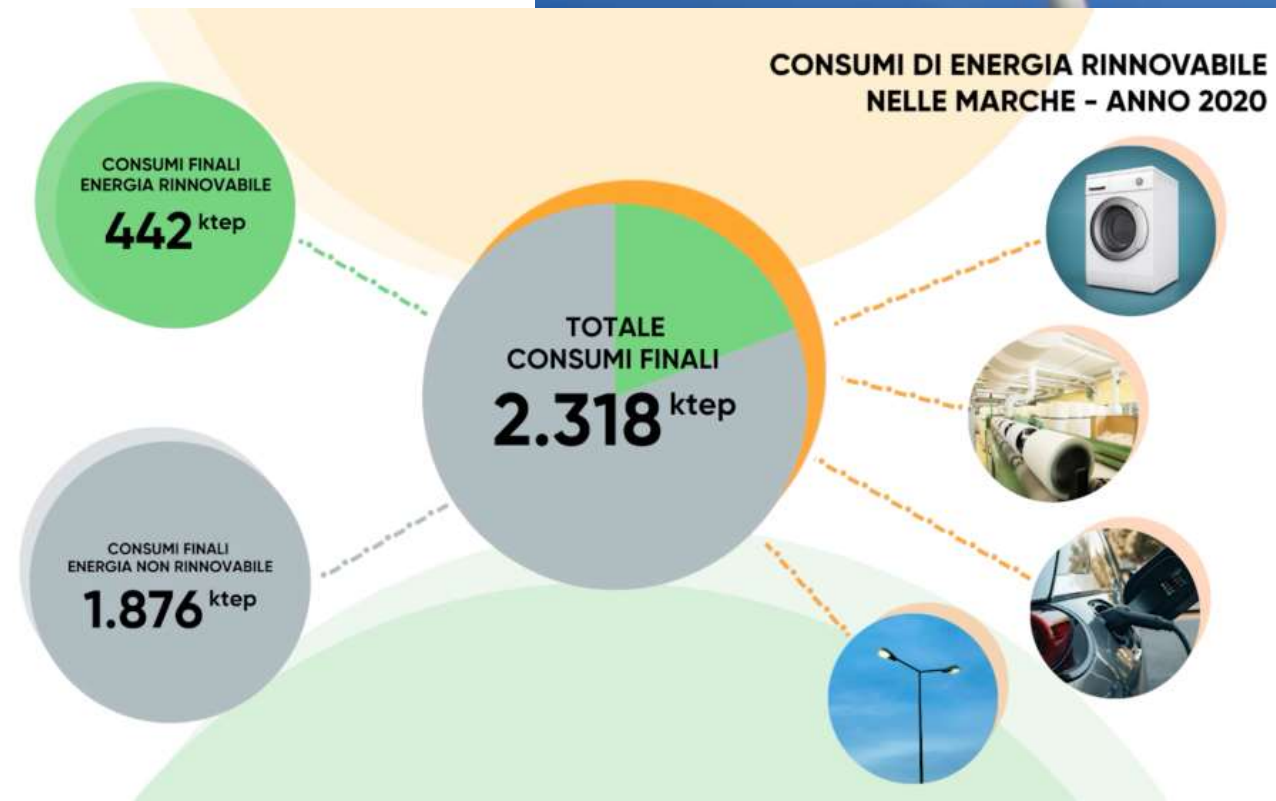
- The **PEAR, Regional Environmental Energy Plan**, is the regional environmental energy management program in which the Marche Region has identified the strategies to pursue energy transition.
- The new PEAR will affect the next Regional Operational Program **POR-FESR 2021/2027**, and the resulting results of the action will be incorporated in this political instrument to launch more targeted calls aimed at promoting "sustainable districts".
- Marche Region (Regional Law n. 250 of 08/03/2021) has promoted the **REGIONAL STRATEGY OF SUSTAINABLE DEVELOPMENT (SRSvS)** in which the possibility of designing a low carbon district through the application of a sustainable certification protocol.
- **Marche Region is finalizing the process for a law proposal** that governs the planning and interventions of the Region and local authorities in the field of energy, in accordance with Article 30 of Legislative Decree 31 March 1998, n. 112, article 117 of the Constitution, European and national legislation on energy and climate change in order to facilitate the transition to low-carbon urban districts.



## PRODUZIONE DI ENERGIA RINNOVABILE NELLE MARCHE - ANNO 2021



## CONSUMI DI ENERGIA RINNOVABILE NELLE MARCHE - ANNO 2020



SOSTENERE IL RISPARMIO ENERGETICO NELLE IMPRESE E NELL'EDILIZIA PUBBLICA E PRIVATA

PRODURRE PIU' ENERGIA RINNOVABILE

AUMENTARE IL CONSUMO COLLETTIVO DI ENERGIA RINNOVABILE

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EXPRESS

THE MARCHE REGION PARTNER IN THE EU PROJECT "**EXPRESS**" - **European regions promoting energy self-sufficiency from renewable sources** - ID 01C0136, funded by the Interreg Europe Program

The Marche Region participates as a partner in the project Express - European Regions Promoting Energy Self-sufficiency from Renewable Sources, funded by the INTERREG Europe Program, through the Sector - Energy Sources, Waste, Quarries and Mines because of the specific competencies given to it in the field of energy sources and sustainable construction.

The overall goal of the EXPRESS project is **to decrease the regions' dependence on energy imports and fossil energy and to increase energy self-sufficiency and the share of renewable energy by improving regional policies to better consider the new operating environment of the energy sector and to enable a rapid transition to locally produced renewable energy for heating, electricity, and transportation.** It is important that the momentum toward increasing renewable energy self-sufficiency is reflected in regional policy instruments to enable timely investments in the coming years. The project seeks to achieve its goals through interregional information sharing and mutual learning. Local stakeholders, particularly policymakers, regional public authorities, energy companies and energy cooperatives are at the center of the project, as they have the means to use this momentum to accelerate the energy transition to increase the share of locally produced renewable energy in the regions.

Sector - Mobility and Local Public Transport

# THE REGIONAL VISION OF SUSTAINABLE MOBILITY

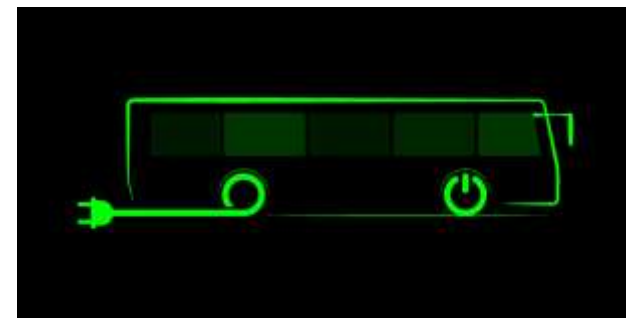
Marche Region is implementing the provisions of the *"Plan for the Development and Diffusion of Electric Mobility in the Marche Region (eMobility ReMa)"*, approved by DACR No. 75/2018:

- MR has launched initiatives, for about **1.7 Meuro**, to incentivize the transition to a more sustainable mobility and the implementation of electric, aimed at Municipalities and Union of Municipalities, as well as Micro Small and Medium Enterprises, through the financing of **columns for public use to recharge electric vehicles**, in order to implement the distribution network throughout the regional territory.
- Since 2020 MR has activated funding of about **3.8 Meuro** for local governments (municipalities and Union of Municipalities) to convert their vehicle fleets, through the **replacement of old vehicles with more sustainable, electric and hybrid vehicles**. It has financed a total of more than 80 Entities and replaced more than 140 vehicles.



The new Community Programming of the European Regional Development Fund ERDF 2021/2027 identifies Axis 3 the theme of Sustainable Urban Mobility, with the Objective of "Promoting sustainable multimodal urban mobility as part of the transition to a zero net carbon economy." The Regional Administration, in addition to having identified resources (17 M€) for the renewal of the LPT fleet, through bringing new electric buses on line, will go on to activate additional Actions.

**2.8.1.1** - Grants for the renewal of the fleet of scheduled local public transport vehicles by road (or automobile) 17 M€



**2.8.2.1** - Grants for the development of light rapid public transport systems - BRT light 11 M€

**2.8.3.1** - Grants for the construction of infrastructure and interchanges aimed at increasing collective mobility 8 M€



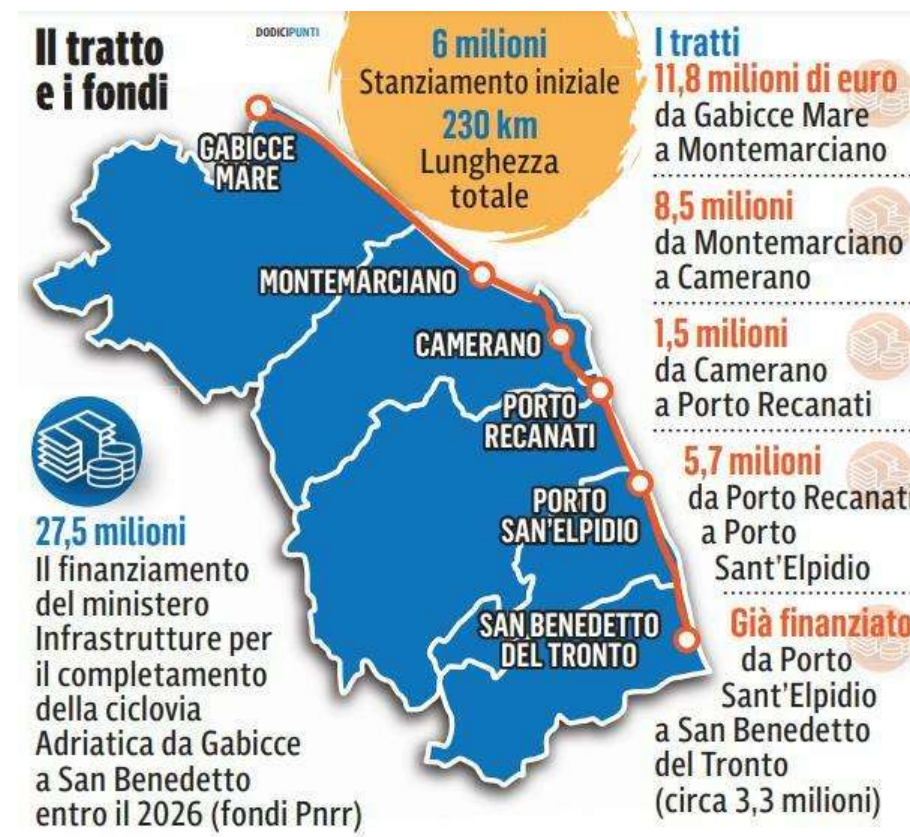
**2.8.4.1** - Development of infrastructure necessary for the use of the environmentally friendly means of electric mobility 5M€

**2.8.5.1** - Grants for the development of an information system to support the planning and management of LPT and mobility in the regional territory 1 M€



In the ERDF 21/27 Programming, with the objective of identifying Actions to promote sustainable mobility in all its forms, MR will finance interventions for the **construction of bicycle and pedestrian infrastructure** in urban and suburban areas of the Marche Region territory.

The new cycle paths (also assisted by green infrastructures) will be a **further incentive for citizens to use bicycles and the so-called "micro-mobility"** means, both for systematic movements and for those with tourist purposes, and will implement and connect with what is the **network of Cycleways of Regional and National interest**, along the valley axes and along the Adriatic trajectory, currently in an advanced stage of planning and for some stretches under construction.



# development of hydrogen economy projects/aspirations

Hydrogen

H<sub>2</sub>

zero emission





## Hydrogen production in brownfields.

All 20 Italian regions have published their respective rankings of the projects eligible for the funding made available under the NRP, M2 C2, Intervention 3.1 for brownfields to support the production of renewable hydrogen in brownfields, completing the process initiated by the government with the notice published by the Ministry of Environment and Energy Security in January 2022.

Applications to access funding had to be submitted by March 2, 2023

**Hydrogen "Made in Marche"** for industry and local public transport, without neglecting the possibility of also using it to produce biomethane or synthetic natural gas (the latter as a sustainable alternative for mobility and electrification of rural or isolated areas).

The region participated in the national apportionment of the 450 million euros from the NRP available for local hydrogen production in brownfields, aimed at creating so-called "Hydrogen Valleys": industrial areas with a partly hydrogen-based economy.

The apportionment allocated **14 million** to Marche based on nationally established criteria (added value of manufacturing industry production, resident population, consumption of energy from renewable sources out of final consumption).



The Marche Region has supported hydrogen production, allocating **14 million euros of PNRR, M2 C2, Intervention 3.1 funds for brownfields.**

The goal is to support the production of hydrogen and develop its uses (feeding it into the grid and use in the transportation sector) and, at the same time, breathe new life into brownfields.

**Five high quality projects have been admitted** to the ranking list.

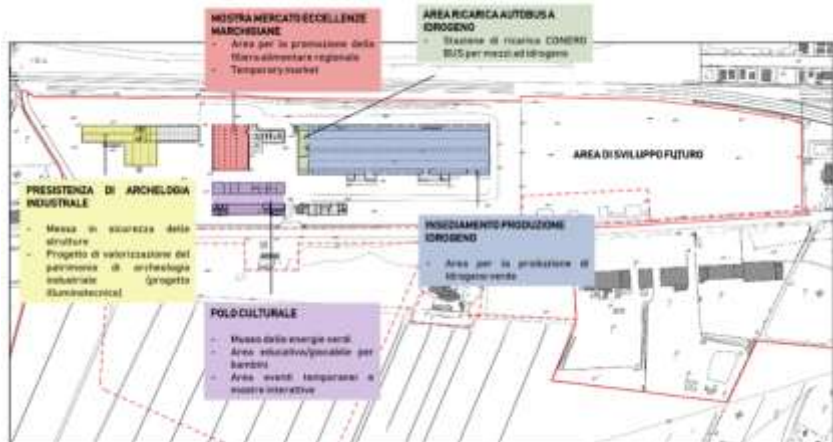
Within the limit of available resources we are funding 2 projects, fully a project on a brownfield area in OFFIDA and partially the former Montedison area in FALCONARA.

Sharing the 14 million up for grabs are 2 projects:

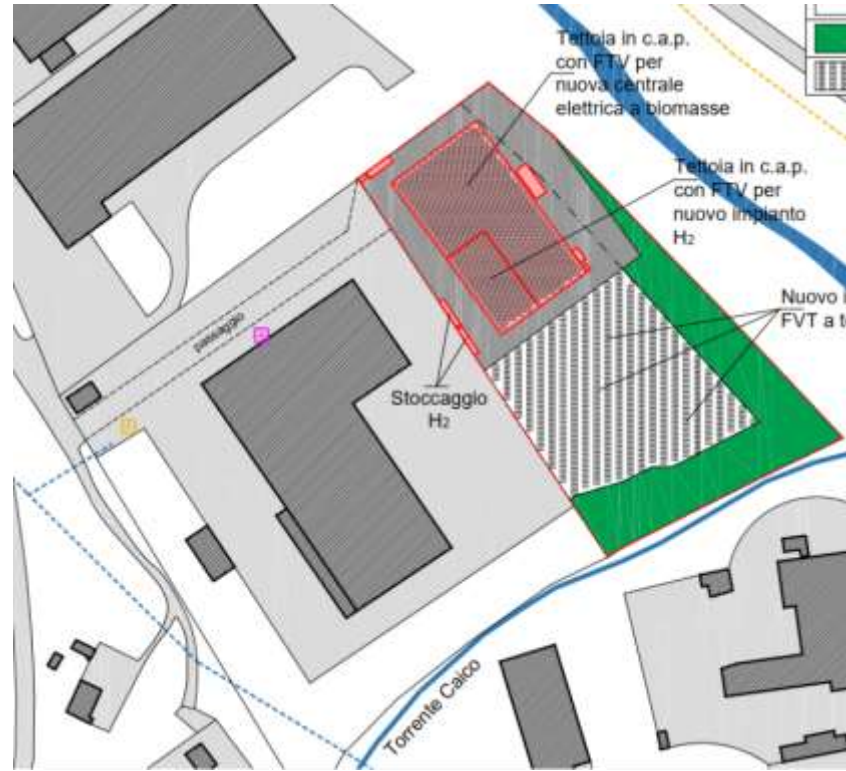
the one presented by **Esdigis4u**, which will be fully financed with **9.8 million euros**,

and the one by the **RTI** (Temporary Grouping of Companies) composed of Renco, Azienda Agricola del Poggio and Immobiliare del Poggio, which got **4.14 million.**





Beneficiary	Project name	Site of intervention location	Eligible investment cost (€)	Eligible required contribution (€)	Grant awarded according to the financial availability of the notice (€)	Hydrogen plant power (MW)	Renewable plant power (MW)	tH2 produced at steady state -
RTI Renco s.p.a.	Insedimento produzione energia verde - area industriale ex Montedison	Falconara Marittima (AN)	13.072.717,00	12.900.000,00	4.140.000,00	4	9,9	188



Beneficiary	Project name	Site of intervention location	Eligible investment cost (€)	Eligible required contribution (€)	Grant awarded according to the financial availability of the notice (€)	Hydrogen plant power (MW)	Renewable plant power (MW)	tH2 produced at steady state -
Esdigis4u s.r.l.	Hydrogen Valley - Offida area industriale Tesino ex CPM	Offida (AP)	9.860.000,00	9.860.000,00	9.860.000,00	1,5	2,38	189

The preliminary market survey revealed significant regional potential:

- the areas identified as potential are all brownfield sites with **minimum sizes of 1 hectare and maximum sizes of 28 hectares**, evenly distributed throughout the region.
- The **total usable area** would be approximately **105 hectares**, indicatively.
- The total amount of interventions proposed by operators is around **278 million euros for 10 potential conceivable projects**.
- The interest of some energy operators in providing technology to serve hydrogen production systems, maximization of production, and development of production and distribution lines for the hydrogen generated was also highlighted.

## STRATEGIC OBJECTIVE 2 A GREENER EUROPE – MAPO DGR 203/2023

SPECIFIC OBJECTIVE	Azione	DOTAZIONE
1 - Promoting energy efficiency	2.1.1 Reduction of energy consumption of enterprises including installation of renewable energy production systems for self-consumption, giving priority to high-efficiency technologies	24.500.000,00 €
	2.1.2 Promotion of eco-efficiency and reduction of primary energy consumption in public buildings and facilities	20.000.000,00 €
	2.1.3 Adoption of technological solutions to reduce energy consumption of public lighting networks	5.000.000,00 €
	<b>TOTAL</b>	<b>49.500.000,00 €</b>
- Promote renewable energy in accordance with the Renewable Energy Directive	2.2.1.1 Incentivizing projects that contribute to the Clean Energy Package: Installation of photovoltaic systems on publicly owned parking lots	3.000.000,00 €
	2.2.1.2 - Incentivizing projects that contribute to the achievement of the Clean Energy Package: Renewable energy plants	6.000.000,00 €
	<b>TOTAL</b>	<b>9.000.000,00 €</b>
<b>TOTAL</b>		<b>58.500.000,00 €</b>