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SHAREN

CER Parma 2030: Research, Institutions and Citizens for a Climate-Neutral City

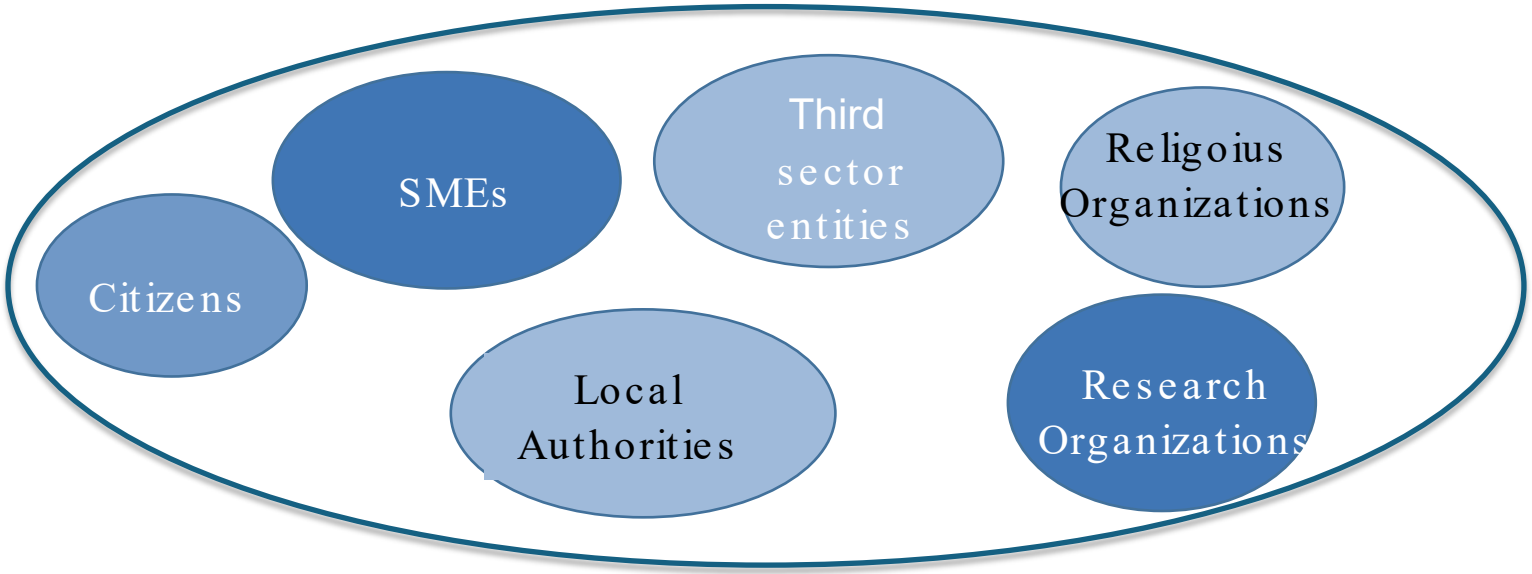
Andrea Zappettini
CNR-IMEM
Foundation CER Parma 2030

FONDAZIONE PARMA 2030

imem

What we talk about when we talk about RECs?

A Renewable Energy Community (REC) is a group of:



that share renewable electricity produced by installations owned by community members or third parties. In a CER, renewable electricity can be shared between producers and consumers located within the same primary substation area, thanks to the use of the national electricity distribution grid, which enables the virtual sharing of such energy.

Birth of the Fondazione C.E.R. PARMA 2030

Parma Munucipality , Universit y of Parma, AUSL Parma e CNR

On 11 July 2024 started the

Fondazione di Partecipazione C.E.R. PARMA 2030

FONDAZIONE PARMA 2030

Nuovi Soci Fondatori:

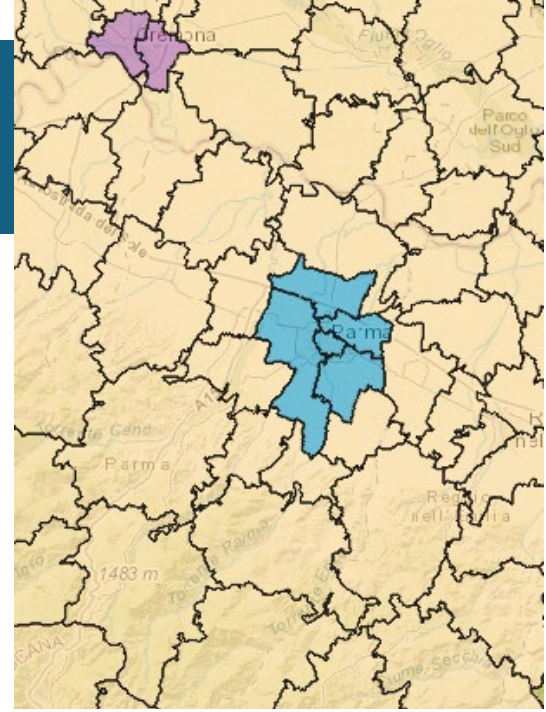
Provincia di Parma, Sport Center , EMC2 , Ecole, Intercral Parma, Famar,

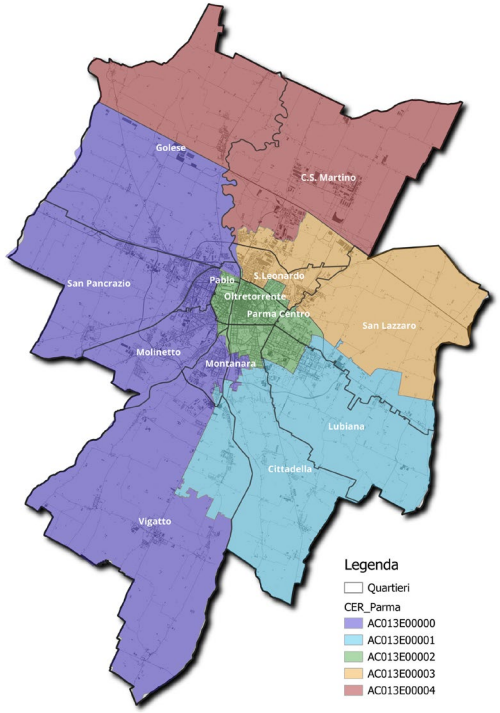
Salvatore Robuschi e C., Carpileasing

Energy Configurations

Energy exchange can only take place between PODs (Point of Delivery) and systems connected to the same primary substation; therefore, the Foundation encompasses various energy configurations.

There are 5 primary substations in the Municipality of Parma and approximately another 21 in the province; therefore, from an energy perspective, the optimal setup would be to have at least 26 energy configurations.





Autonomy of energy configurations

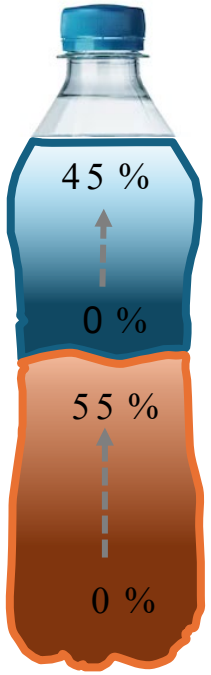
Each configuration will have its own:

- Configuration regulations
- Configuration committee
- Bank account

and chooses the social project to which the generated incentives will be allocated.

Energy Configurations

SHARED ENERGY THRESHOLD VALUE



Amount allocated for social purposes → **Configuration**

Amount allocated to shareholders → **Configuration**

30 %

Portion allocated for the management of the Foundation → **Foundation**

Simulation of a configuration

Prosumers

	Plant power [kWp]
11 Citizens	70
Association	165
Enterprise	310
Third-party producer	400

Consumers

	Power consumption (MWh/year)
20 Citizens	50
Enterprise	200
University	150
Schools	77

Estimated self-consumption: 55%.

Energy fed into the grid available for sharing (database SARAHH3/203):

477 MWh/anno

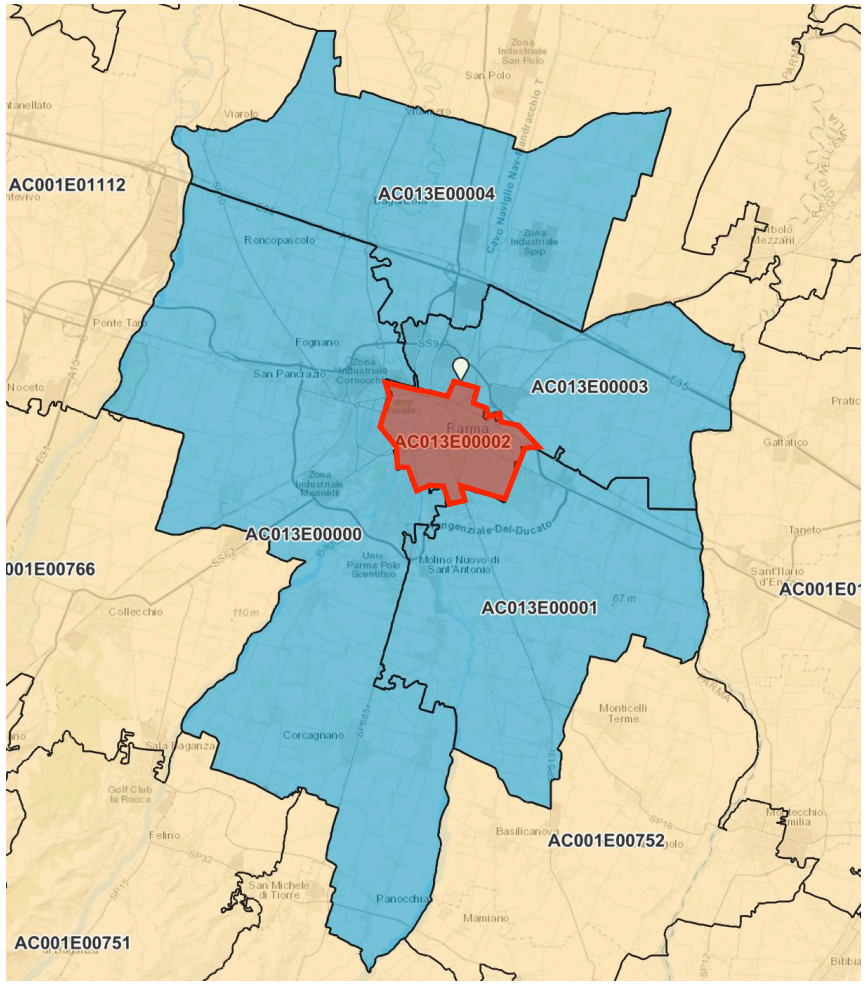
Estimated share: 100%

Premium rate paid by the GSE to the Configuration: €42,930

Proposed breakdown of the incentives

- 16.5%—or €7,083 per year—will be allocated to the Foundation's operating costs and activities.
- 38.5%—or €16,524 per year—may be allocated to members of the Configuration based on criteria to be defined in the Configuration Regulations; these regulations will be drafted by the Configuration Committee—in compliance with the Guidelines for Configuration Regulations—and approved by the Board of Directors.
- The shared portion exceeding 55%—amounting to €19,318 per year—is to be allocated, as determined by the Configuration Regulations, "exclusively to consumers other than businesses and/or used for social purposes benefiting the areas where the sharing facilities are located."

The established configurations

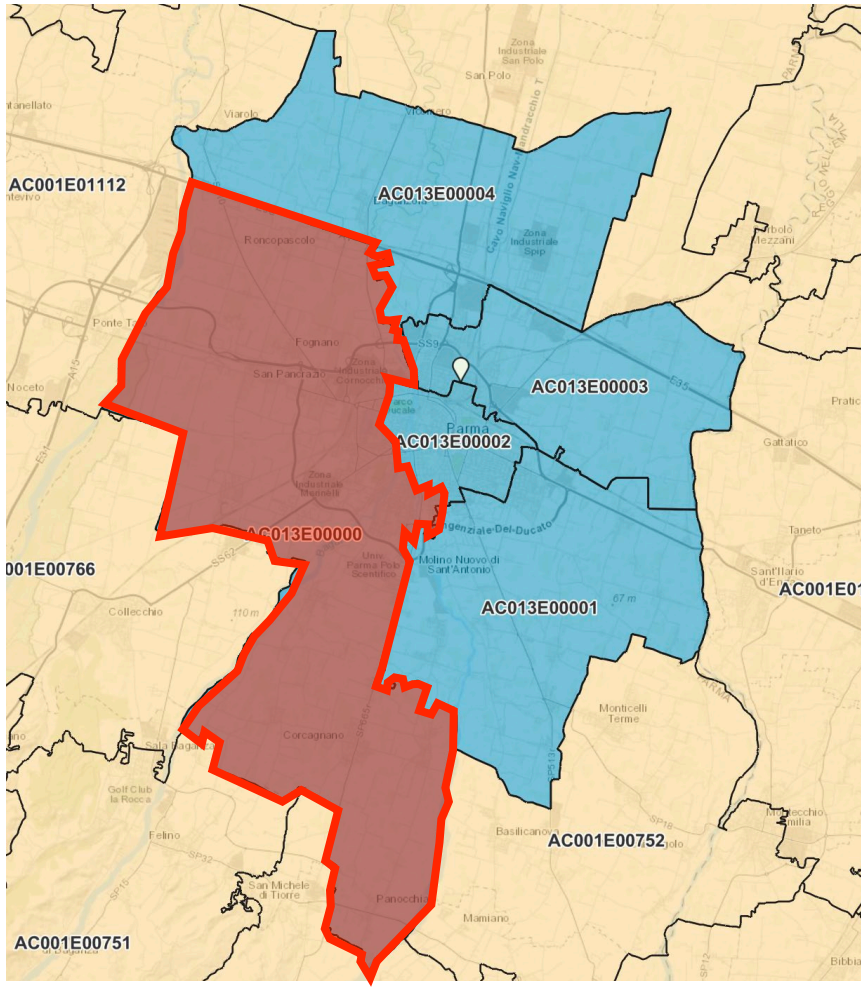


"Lubiana" Configuration

The Lubiana configuration currently consists of:

- 1 Producer: the 224 kWp photovoltaic system installed by the Municipality of Parma on the roof of the Albertelli-Newton Comprehensive School
- 5 Consumer PODs: Municipality, EMC2, AUSL

The established configurations



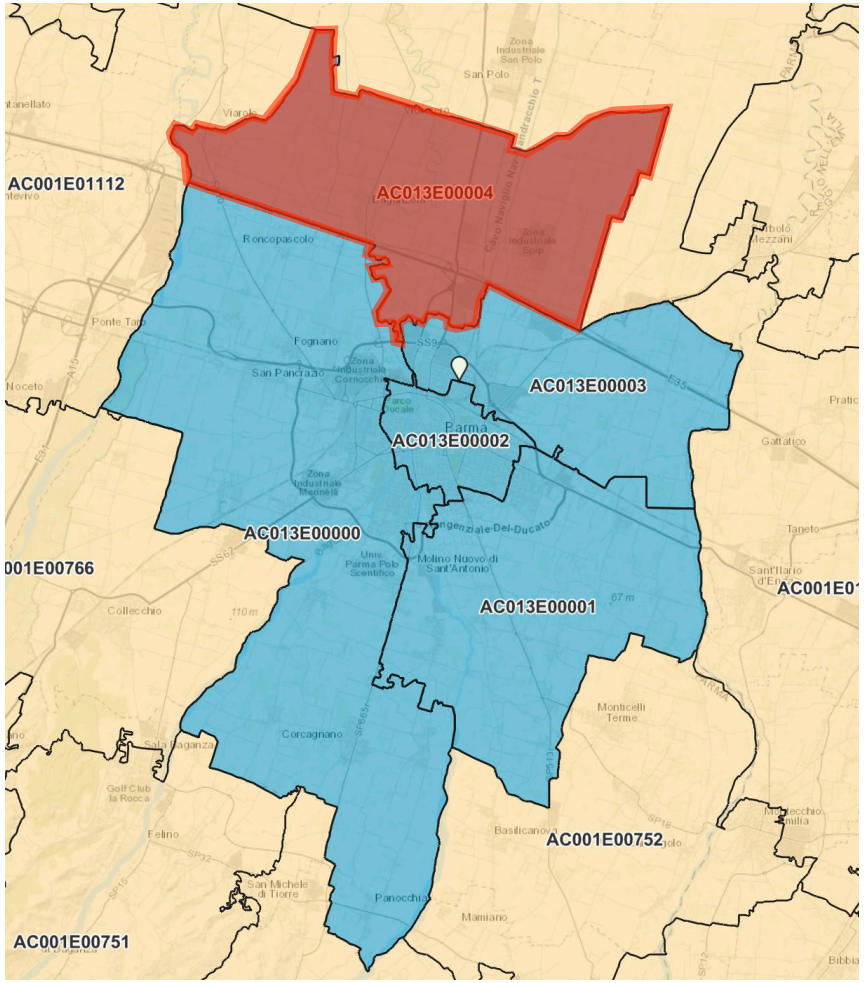
"Campus" Configuration

The Campus Configuration currently consists of:

- 1 Prosumer: the Sportcenter sports club, which has made available the energy generated by the 393 kWp photovoltaic system installed at its facility;
- 2 Consumers: Sport Center, CNR, and the University.

This configuration is entirely dedicated to scientific research on renewable energy: all incentives will be allocated to research projects.

A new configution



"Ecodistrict" Configuration

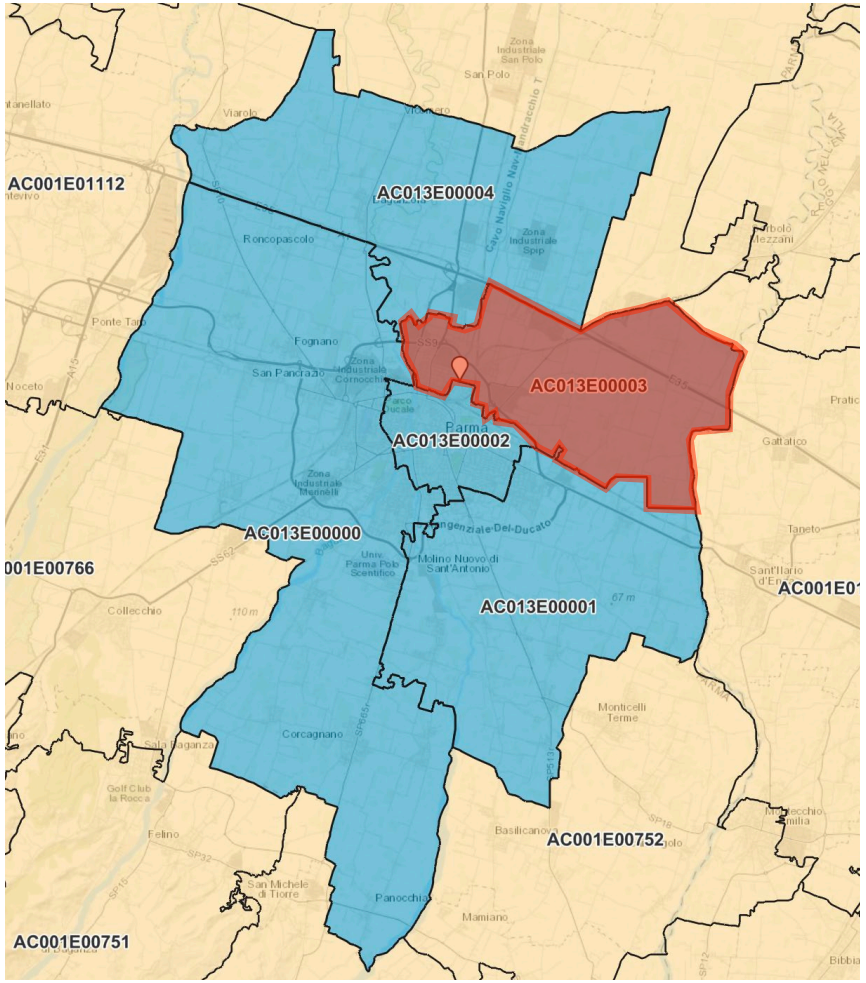
The Ecodistrict Configuration is created with:

1. Producer: FAMAR with a 150 kWp photovoltaic system
2. Consumers: Salvatore Robuschi and C., Carpileasing



NET ZERO DISTRICTS
accelerare la transizione

Foundation is expanding



"CERS San Leonardo" Configuration

Co-funded by the "Sustainable Communities 2025" call for proposals from the Cariparma Foundation, with the participation of the Municipality of Parma.

Partners:

- Fondazione CER Parma 2030
- Ancescao
- Cooperativa Fiorente
- Comitato Anziani San Leonardo
- Emc2

With the support of:

- Officine On-Off
- Ecole Cooperativa
- Centro sociale orti di via Venezia

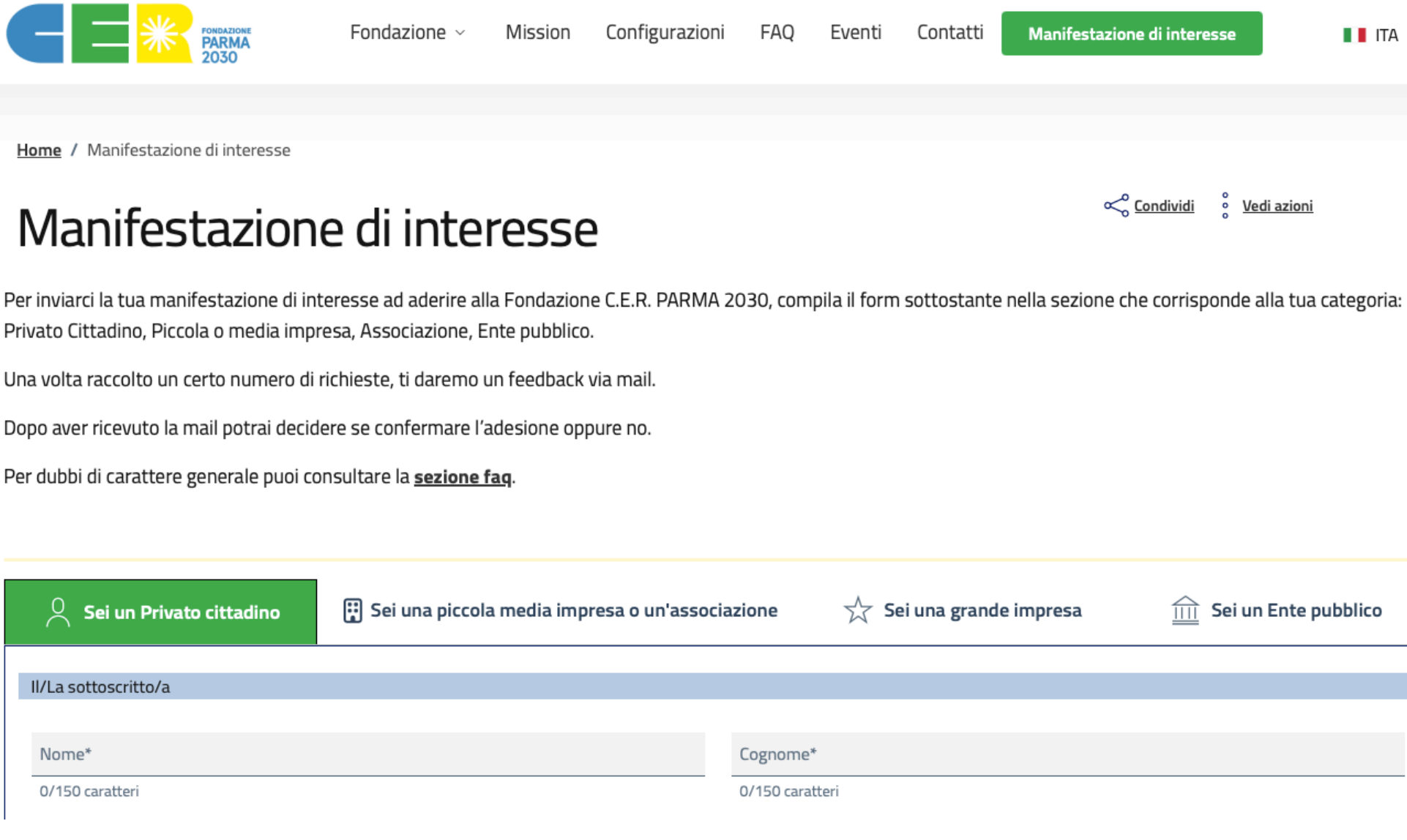
FONDAZIONE CARIPARMA
per le persone, un prima persona

Foundation is expanding

The Expression of Interest



Foundation is expanding



Foundation is expanding

We are organizing meetings with:

- trade associations
- neighborhood committees
- enterprises
- third-sector associations
- citizens
- participation in neighborhood festivals
- …

REC is an amazing tool for talking to people about energy transition

Why should I enter a REC?

01 | If you are a prosumer you can achieve a faster return on investment.

02 | To have a direct impact on your local area by helping to raise funds for environmental and social projects.

03 | To demonstrate the choice of a green policy for your company or entity (or *family)*

04 | To contribute to distributed energy generation by utilizing your own rooftops, thereby limiting the construction of large-scale ground-mounted plants.

05 | The European directive of November 17, 2024, provides for the direct exchange of energy: what is currently an incentive could become access to energy at cost price, resulting in enormous savings for both the producer and the consumer.

06 | It is therefore possible to envisage the creation of a district that is completely energy-independent, producing and consuming energy at essentially the cost price of photovoltaic energy.



FONDAZIONE PARMA 2030

Thank you

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https://www.fondazionecerparma2030.it

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