



# RENEWABLE ENERGY FOR ALL

Partners



WITH SUPPORT FROM  
**Google.org**



CITERA CENTRO DI RICERCA  
INTERDIPARTIMENTALE TERRITORIO  
EDILIZIA RESTAURO AMBIENTE

**SAPIENZA**  
UNIVERSITÀ DI ROMA



## A PROJECT FOR THE CITY AND CITIZENS IN ROME

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Some of the main challenges are the modernization of electricity grids, the promotion of energy efficiency, the reduction of greenhouse gas emissions in energy-intensive sectors, and the promotion of innovative energy storage and management. In this context, **Renewable Energy Communities - RECs** - represent an opportunity to accelerate the energy transition.

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Energy communities offer a range of economic, environmental, and social benefits for community members.

- In economic terms, they enable citizens to become energy producers, **reducing energy costs** and generating **income for the REC**;
- they contribute to the creation of local jobs in renewable energy and management energy;
- promote the use of renewable energy, reducing greenhouse gas emissions and the environmental impact associated with energy production from fossil fuels;
- stimulate the active participation of citizens by increasing awareness of the issues of efficiency and renewables, as well as on the **values of collective action and sharing**.





## TOWARD A JUST ENERGY TRANSITION

### GOALS

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Understanding and integrating the principles of energy efficiency and energy sharing is the first step in the emergence of Renewable Energy Communities



### ACCELERATING THE ESTABLISHMENT OF REC promoting

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- **Social aggregation** between prosumers and consumers;
- energy **transition and decarbonization** in the urban environment;
- **energy efficiency**.

### FIGHTING THE ENERGY POVERTY

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through inclusive models in synergy with the Sun4ALL project.

### REDUCE CO<sub>2</sub> EMISSIONS

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through renewables, reduced consumption and energy efficiency.

### GENERATE ENERGY FROM PHOTOVOLTAICS AND REDUCE DEPENDENCE ON FOSSIL FUELS

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Providing roofs and urban surfaces with solar panels

# SUN4U'S DIGITAL PLATFORM



The SUN4U platform is designed as a tool to facilitate the establishment, empowerment and development of **Renewable Energy Communities**.

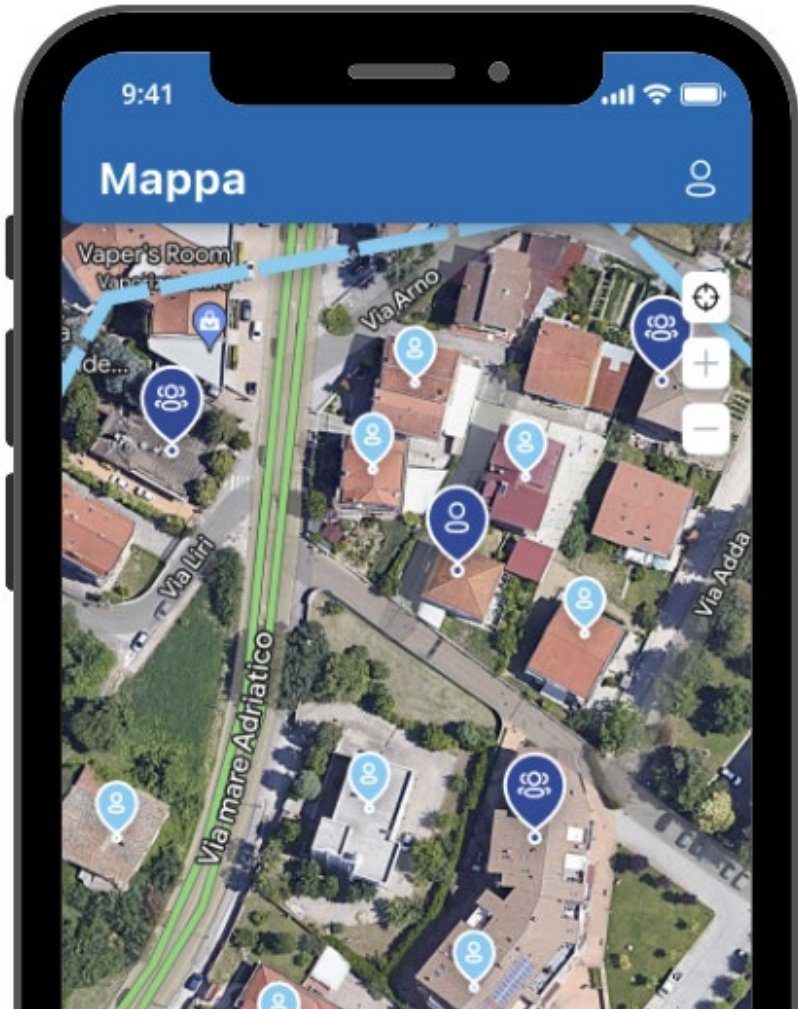
SUN4U offers accessible tools, **financing solutions**, information resources and **expertise for citizens** with the aim of helping to overcome the main difficulties, in the development of a new model of energy transition.



The user is assisted through maps and simple questions in identifying the optimal Community (OREC) based on his or her own energy consumption characteristics: in uploading data, in making use of the information available for his or her area (ideal roofs, photovoltaic potential) in meeting other users (consumers, animators, providers, already established RECs) and with providers of technical and financial services that he or she can consult.



# SUN4U APP: SIMPLIFYING AND ACCELERATING THE AGGREGATION



- Research and engagement of members who will form the renewable energy community
- Design and assessment
- Mapping of resources and perimeters of primary substations
- Supporting the establishment of the REC
- Fundraising and plant financing solutions
- Optimization and information sharing
- Education and training



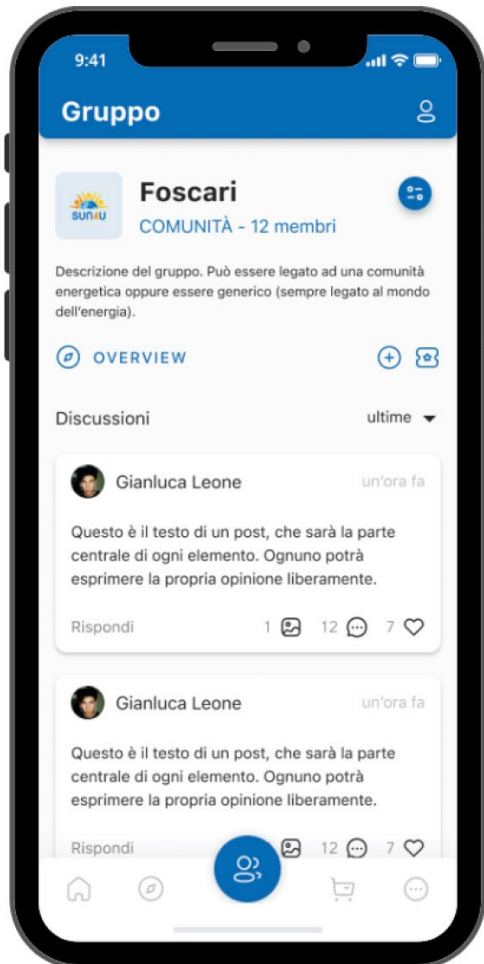
# SUN4U APP: GUIDING THE USER



The app is carefully designed to guide the user through all the essential steps required to become an active member of a (REC). From the instant the user downloads the app and creates a profile, a clear path begins that provides all the information and resources needed for informed and rewarding participation in the REC.

Within the app, two main modes of social aggregation have been identified that aim to facilitate communication, collaboration, and information sharing among members and prospective REC members. These modes are **Discussion Groups** and **REC Groups**, an evolution of the former.

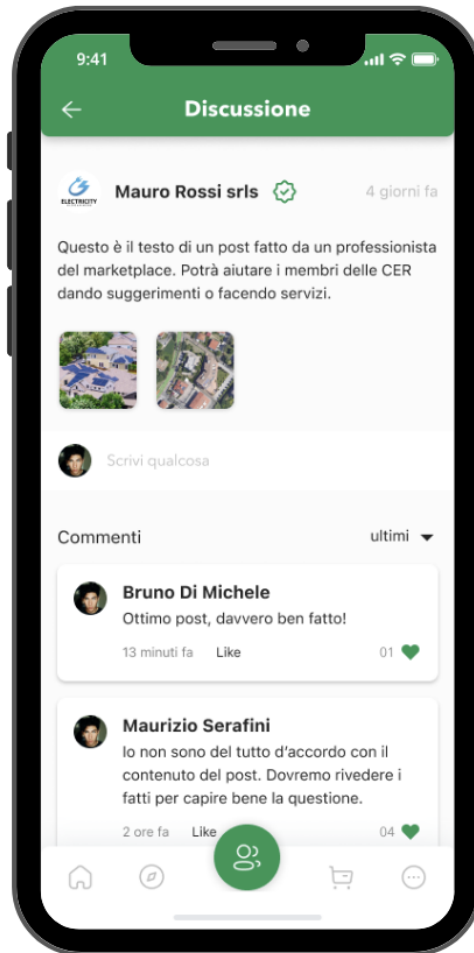
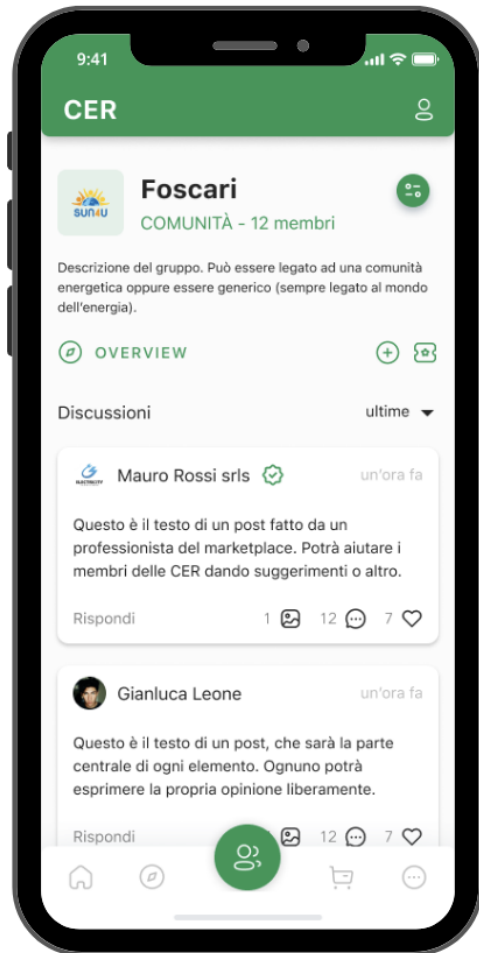
# SUN4U APP: DISCUSSION GROUPS



**Discussion Groups** provide an interactive platform where users can share ideas, experiences, resolve doubts, and discuss topics relevant issues related to the production, management and sharing of renewable energy.

**The groups are the first point of aggregation before the REC and are moderated by an animator.**

# SUN4U APP: REC

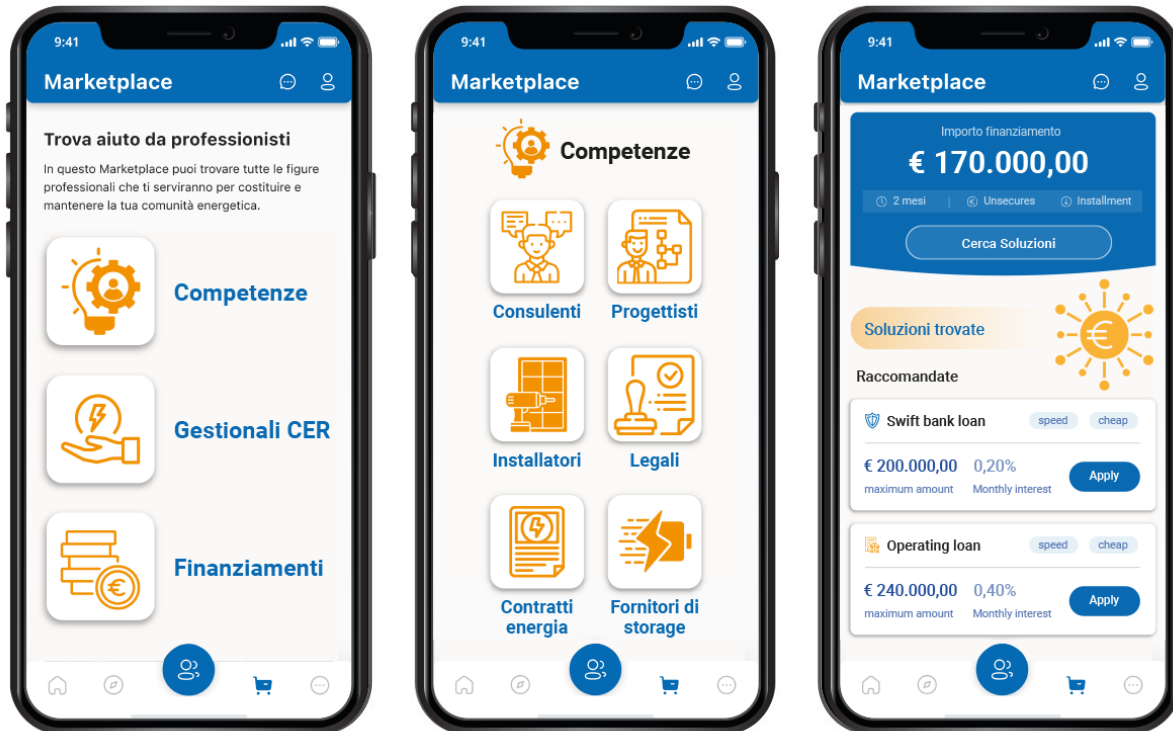


**REC** Groups represent the evolution of Discussion Groups where the conditions necessary to form a formal REC have been achieved. Users from the Discussion Group can move to a REC Group knowing objectives, available resources, roles of all members, and being able to enjoy simulations of the optimal REC.

The app provides detailed information on how to join a REC, the benefits of participation, and how to actively contribute to the success of the renewable energy community.



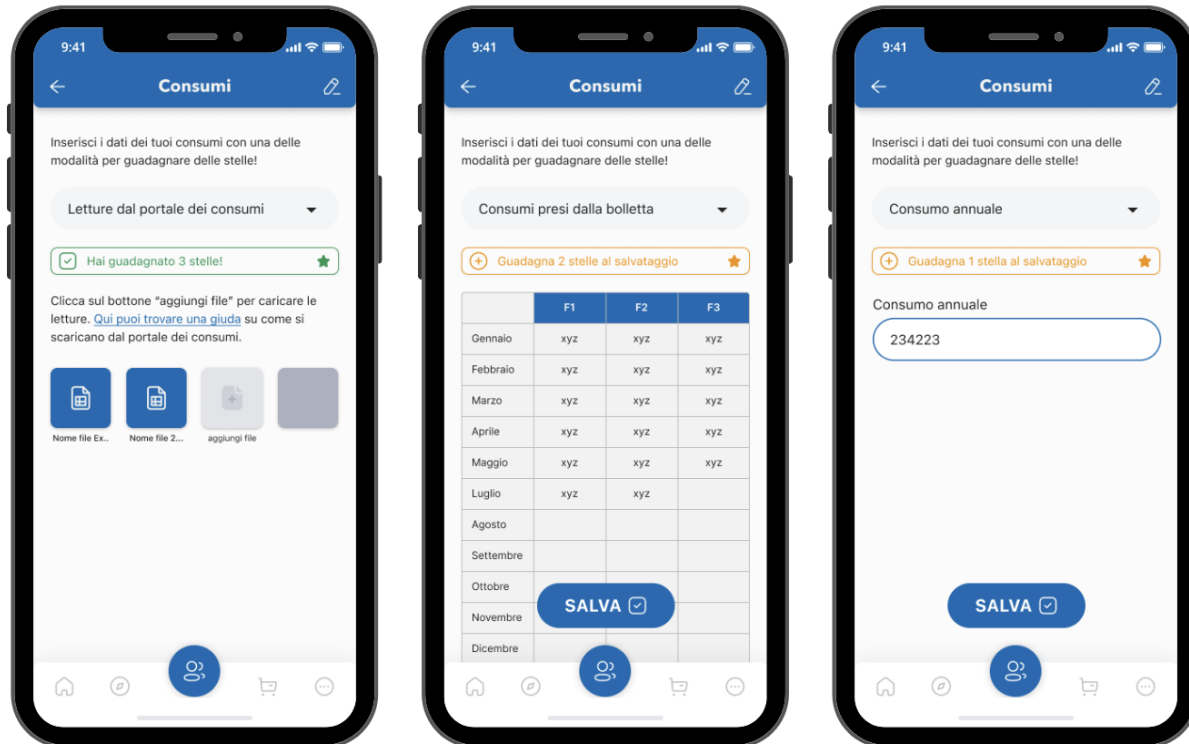
# SUN4U APP: PROVIDER MARKETPLACE



The Marketplace is a showcase of companies and professionals (lawyers, designers, consultants) who can support RECs in their establishment.

Through an intuitive platform and well-organized, professionals can offer their valuable input, providing expertise and essential technical, legal and organizational services for the establishment of RECs and the implementation of PV systems in the creation of renewable energy communities.

# SUN4U APP: EVALUATION OF BENEFITS



Through the personal profile you can upload bills, enter consumption by bands or annual consumption.

In this way the user can receive all the data for self-assessment and understand how much he can save thanks to the energy community.

# TO WHOM WE ADDRESS

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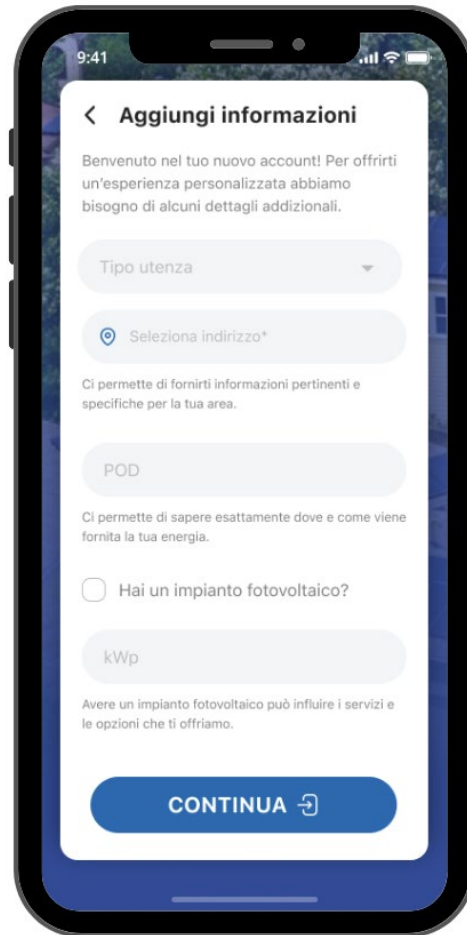
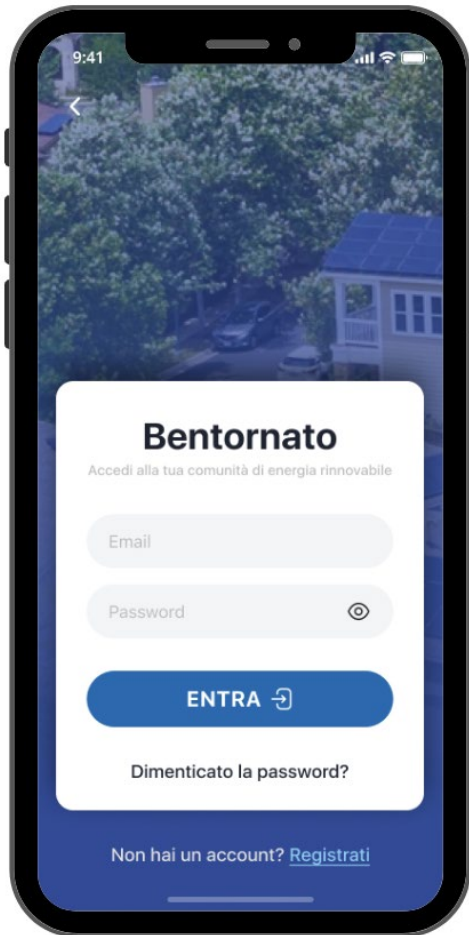
The target users of the platform are:

- **REC animators**
- **Prosumers**
- **Consumers**
- **Providers** (market-place)
- **Funders** (market-place)
- **Schools** (training)

Stakeholders, local businesses, professionals, investors, ESCOs, and Crowdfunder are the other stakeholders who may be involved in SUN4U's platform.

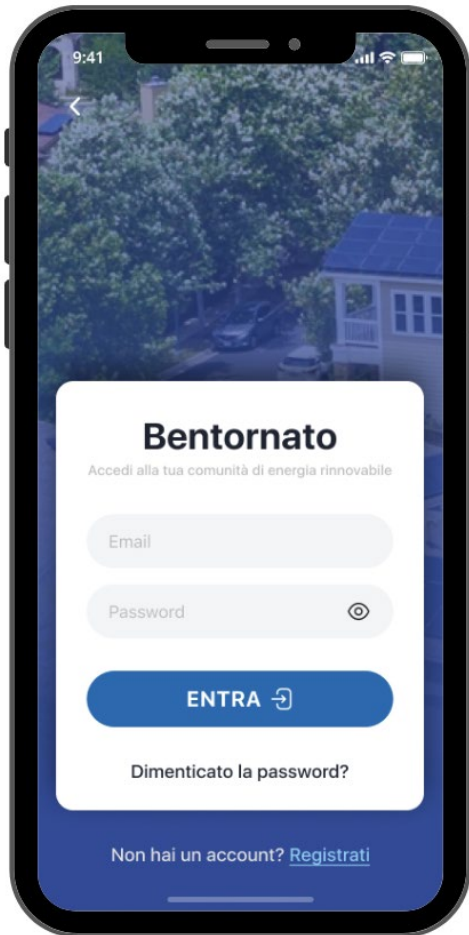


# SUN4U APP: USER REGISTRATION



- User registration
- Possible uploading of additional data to guide the user in sharing data needed for energy community modeling.

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# TO LEARN MORE AND DOWNLOAD THE APP



[www.sun4u.it](http://www.sun4u.it) - [info@sun4u.it](mailto:info@sun4u.it)



## Drivers



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## Partnership



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