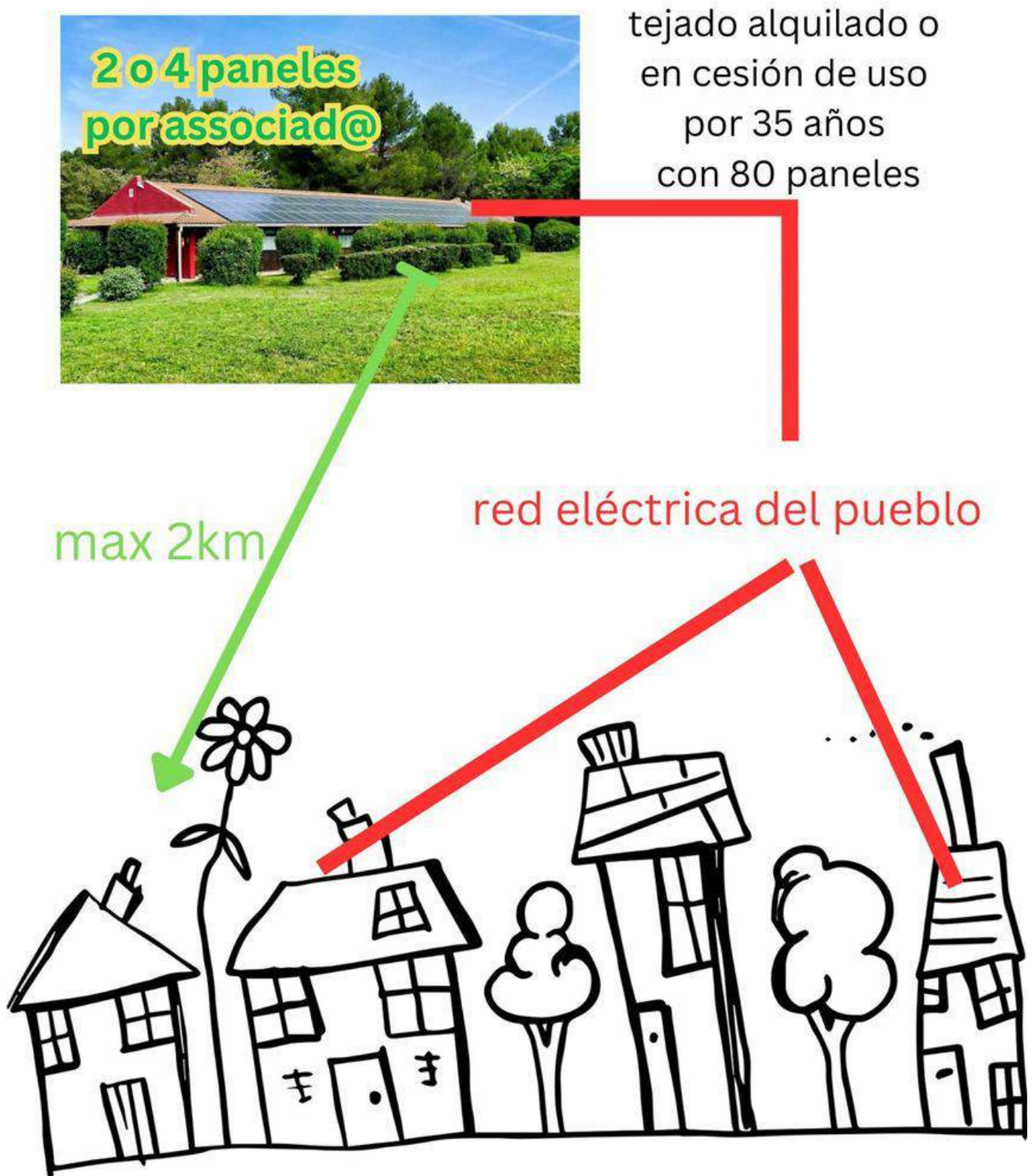




Las decisiones sobre el funcionamiento de la comunidad energética se toman en Asamblea General, por unanimidad o 70% de votos a favor.

asociación Comunidad energética de la Alpujarra

solar installation at the almazara de la Flor de la Alpujarra existing and future

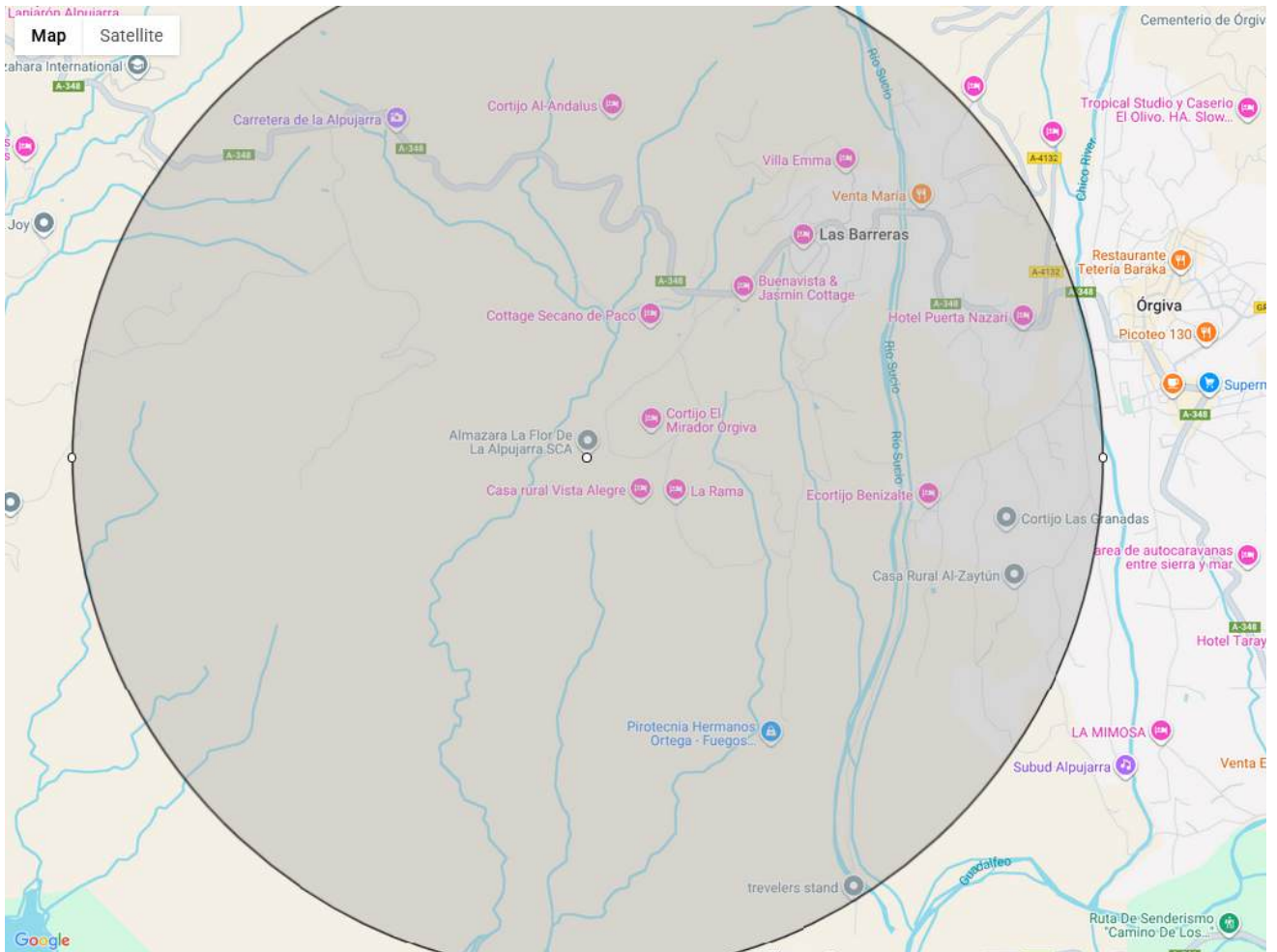


La Flor already has panels installed, totalling 15 kW.

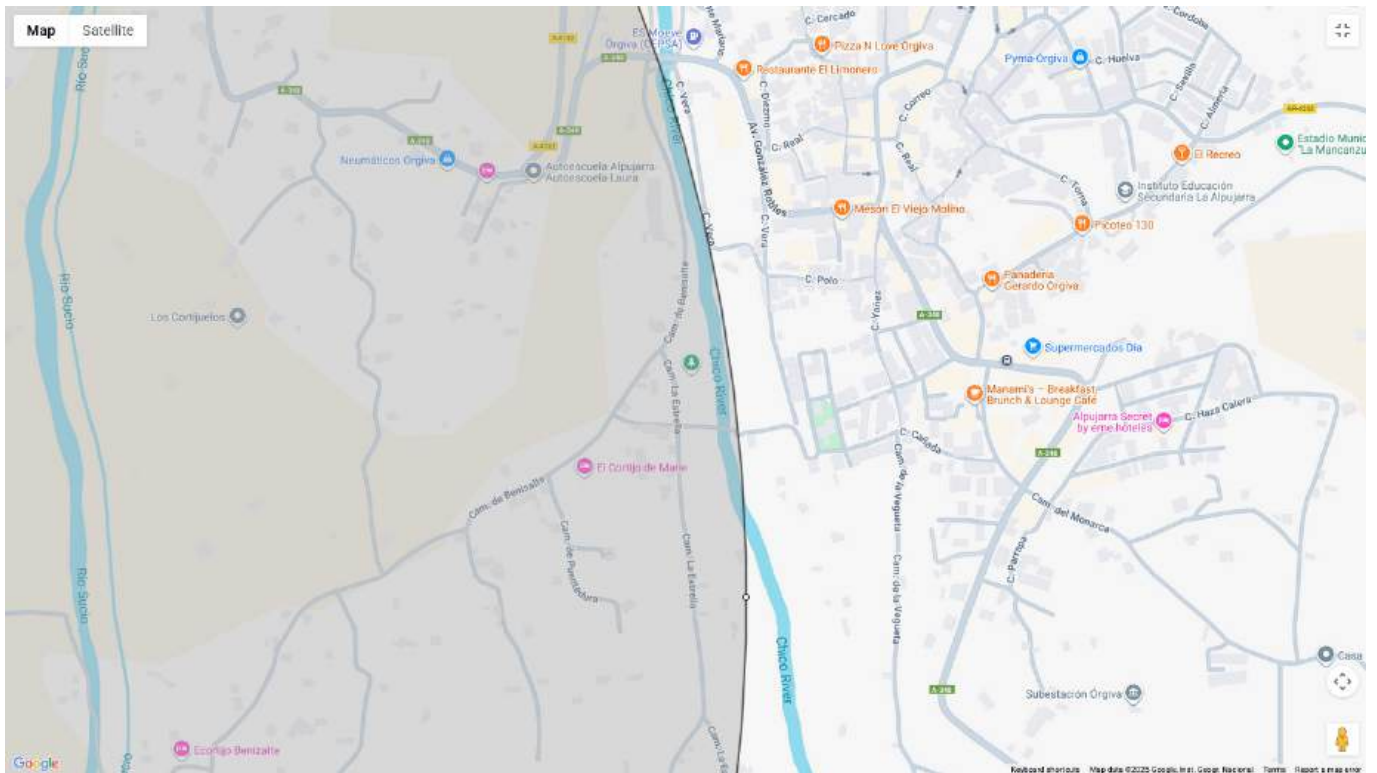
We want to install 20 kW (in green) on existing roofs.

And 30 kW (in orange) on a roof that does not yet exist or that could be a roof in the delivery area made entirely of solar panels, and the roof of a new storage building (left from the existings).

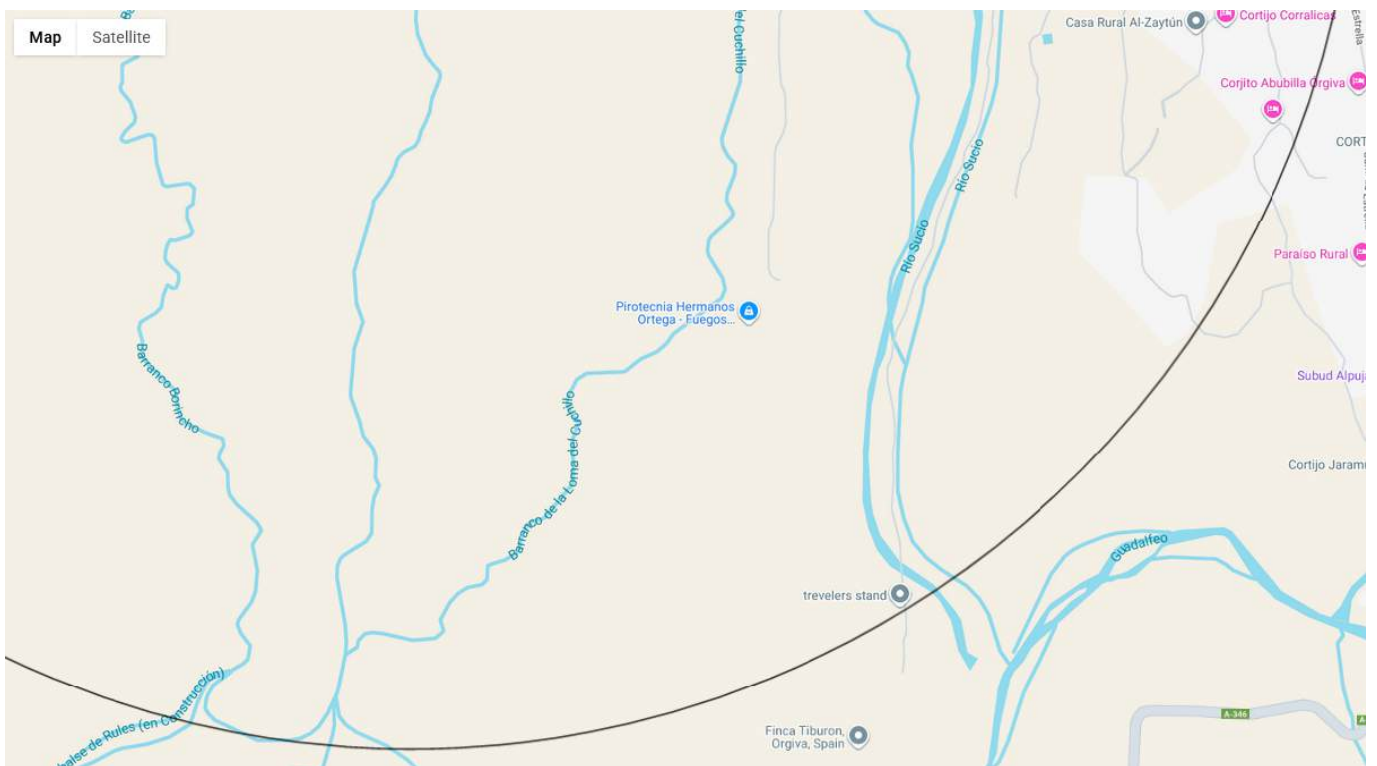
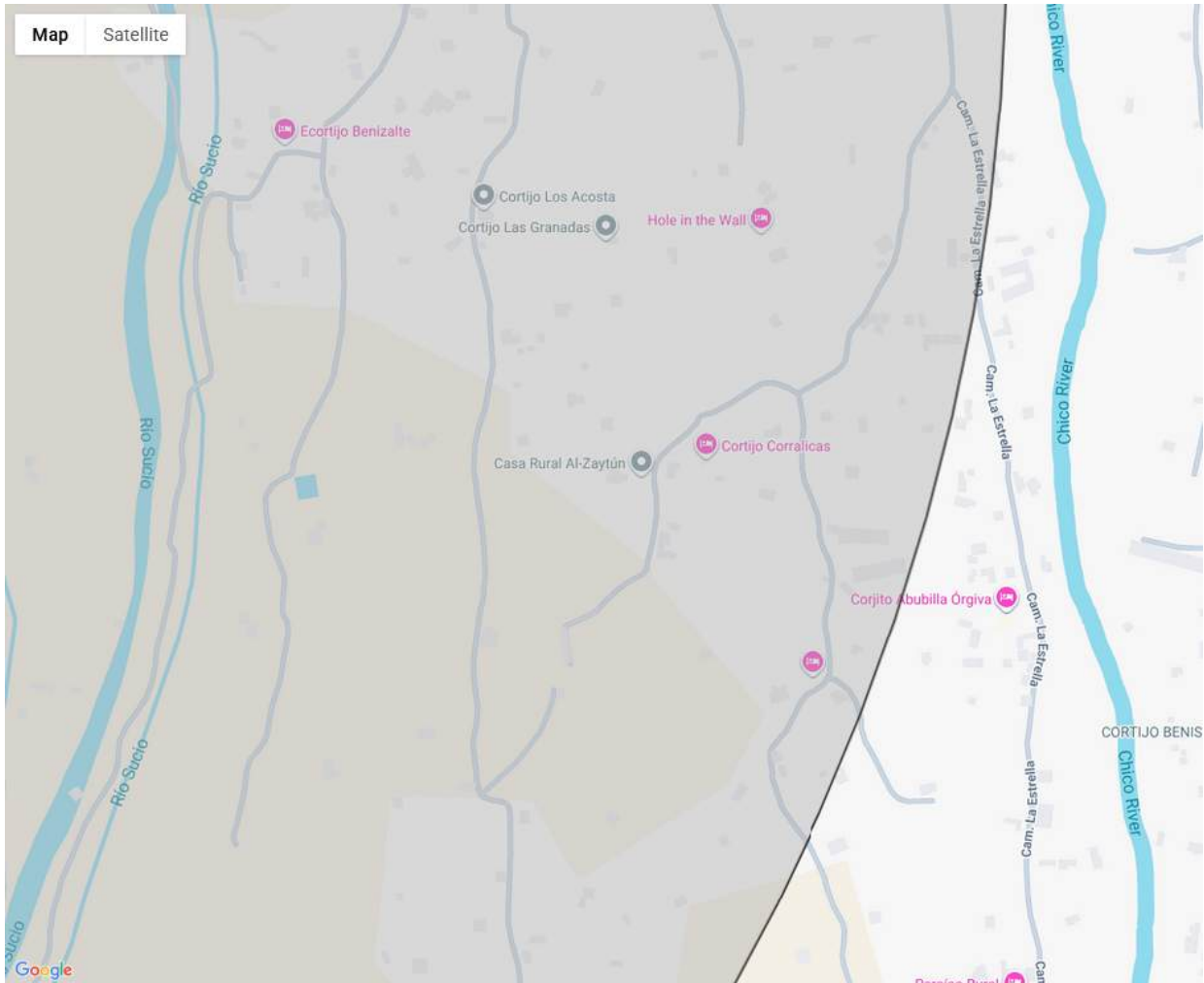
Are you within this 2 km radius circle from La Flor ?



Benizaltes area detail



Pago area detail



Your electricity meter must be located within this 2 km radius from the first production point.
We will announce the location of the second production point closer to the centre of Órgiva shortly..

Why is it better than what I have now ?

You will pay 11 cents per kWh during the period of the day when the energy supplied under your normal contract is the most expensive (periodo punta 10h-14h).

The price will remain stable for the next 20 years (or more). It is decided at the General Assembly. Consensus is searched for, and if this is not reached, 70% of voters must be in favour of a decision. This guarantees that there will be no sudden changes that are not in the interests of the vast majority.

You participate in the energy transition locally and collectively. We plan to have three production points installed by the end of 2028, which will provide local renewable energy to more than 75 families and 10 small businesses.

We do not do business with energy.

Revenue is reinvested in the installation of a future production point in the Alpujarra. We provide energy grants to single mothers in energy poverty situations who have difficulty paying their electricity bills. We offer them 5% of our solar electricity production.

Not only do we produce energy collectively, we also organise workshops to inform our members and general population about energy, to help them overcome their fear of mathematical formulas, and we reflect together on ways to reduce energy consumption or, in other words, to start paying less for electricity by changing our consumption habits (if you want to, we don't force anyone).

We are a collective. If you can think of an interesting project to help with the energy transition, if you have ideas on how to improve our living environment and how to give the inhabitants of the Alpujarra better living conditions in a world with less oil, this is the place to be. Perhaps we can do it together if more people like your project.

How much energy will I receive and at what price ?

You will receive energy from two solar panels, 1000 watts. These panels produce 5.5 kWh of electricity per day, between 10 a.m. and 5 p.m. This represents a monthly average of 165 kWh throughout the year. Check your electricity bill to see how many kilowatts you consume between 10 a.m. and 4 p.m. and you will know how much you can save.

If it is cloudy or raining, energy production will be lower. In summer, it will be higher than average without changing the monthly fee of 21 euros.

This fee includes administrative costs and the energy produced during the month, regardless of whether it is sunny or not... but in summer, when more energy is produced, you will pay the same price as in winter.

The price per kWh is calculated to be an annual average of 11 cents per kWh.

How much will it cost me in total ?

You will pay the annual membership fee of €20 from September to September.

You will pay a one-off registration fee for the self-consumption programme. This fee allows us to pay the costs of changing your contract with your current supplier (comercializadora - the company that sells you electricity and sends you your bills) so that they know that part of the electricity you consume will be produced by you, without the comercializadora being able to bill you for that energy and charge taxes on what comes from the sun.

The one-off self-consumption registration fee is €100.

You will pay your monthly self-consumption fee, which will be €21. This fee includes €3 in monthly administration costs and your energy produced by your solar panels, i.e. 1000 watts.

There are no other costs, no hidden taxes, and no fees to be allowed to receive energy (potencia contrada)...

Will all the electricity come from the solar panels ? What happens at night, and what happens if I don't use all of it during the day ?

You will have electricity from your two solar panels during daylight sunny hours. But perhaps you consume more than 1,000 watts per hour. In this case, the rest of the energy comes from your contract with the company that sells you your electricity (your supplier - comercializadora).

The renewable energy that you do not consume during daylight hours can be compensated for. That depends on your electricity supplier. Normally, the conditions are not favourable: they buy your energy cheaply and sell it back to you at a higher price at night when you need it.

We can also explain how to change your consumption habits, such as consuming more during daylight hours so that you do not have a surplus.

In winter, you can expect 120 kWh per month, and in summer, 180 kWh per month. The annual average is 165 kWh.

What administrative steps do I need to take ?

To join the self-consumption project, you just need to pay your membership fee if you are not already a member, and your one-off self-consumption registration fee, which will be in total €120 (€100 if you are already a member).

We will negotiate with your energy supplier. You will need to provide us with some information, such as your CUP (your electricity meter identification number) and your address, so that your energy supplier knows that part of your consumption comes from the Energy Community.

You will need to pay your monthly self-consumption fee by bank transfer.

I don't have time, do I have to participate in the energy community ?

For people who are very busy or who shy away from groups, we only ask that you participate in the annual General Assembly.

You will receive some information during the year by email and, only if you wish, we will include you in the Alpujarra energy community WhatsApp group, which is not very active.

It's not cheaper than what I have...

You may currently have a very good contract. You may also remember that electricity prices reached their authorised maximum in Spain in 2022, when the kWh cost almost four times more than it does now (40 ct per kWh). In the rest of Europe, prices were much higher.

We guarantee that our price will not rise if the market changes; it will remain around 11 cents per kWh.

How can I participate more actively ?

If you would like to become more involved in the activities of the Energy Community, we have groups of people who manage specific projects, without having to refer everything to the coordination board, and who have a certain degree of freedom in their decisions and actions.

We are looking for active people to help us organise more and better activities. We want the Energy Community to be more than just an idea; we want it to become concrete action.

I want to self-finance my installation and get energy at half price.

Good idea. We are looking for seven families for each production point to self-finance their installation. They pay €1,200, which saves us from having to take out a bank loan, and in return we offer them energy at half price, i.e. 5.5 cents per kWh. The administrative part of the monthly fee remains unchanged.

In 12 years, they will recoup their investment, and for the rest of their membership in the energy community, they will continue to receive their energy at half price.

I want to participate in the funding campaign with contributions of €85.

This is another way to avoid taking out a bank loan. With contributions of €85 to our internal bank, we hope to be able to raise €15,000 from 120 people who trust that we will repay their €85 contribution in five years, with 1% annual interest. Every one can participate in the funding campaign, you don't need to be a member and no advantage will arise from contributing 85 euros.

Between self-financing, internal banking and another public subsidy, we will have the funds to finance the installation of two production points in Orgiva.

How long do I need to be a member of the self-consumption programme ? Can I leave at any time ?

There is no mandatory minimum membership period.

Whether you can leave depends on whether there is a waiting list for the self-consumption project at the production point where you are connected.

In any case, we will ask you to give us three months' written notice of your wish to leave so that we can find another family who wants to take over your share of self-consumption.

I want more than 1000 W of power, is that possible?

Yes, it is possible. It depends on the waiting list we will have.

You can imagine the following for this first production point away from the centre of Orgiva:

17 families want 1000W

6 families want 2000W

3 families want 3000W

In this case, we would not have any SMEs receiving energy.

When will I have my own collectively produced renewable energy ?

September 2025	we were awarded a €20,000 grant by the IDAE, a state body (Institute for Energy Diversification and Saving).
November 2025	we finalised a 35-year agreement for the cession of part of the roof of the La Flor de Alpujarra organic oil mill and a two new roofs
December 2025	the group of 27 self-consuming families is created.
February 2026	we have seven families who are going to self-finance their installation, and we have managed to get 115 people to contribute €85 to the internal bank of the energy community.
April 2026	we install the first production point, with 40 kW of power.
May 2026	We complete the paperwork so that the production point can officially be put into operation.

How much does it cost to install a production point ? Can it be financed internally ?

A 40 kW production point, which supplies 27 families consuming 1000W and 3 small businesses consuming 3 kW, as well as 4 single women to whom we give 4 grants of 500W, costs us €40,000 to install.

In September 2025, we obtained a grant of €20,000 to finance 50% of the first production point, which will be located at the olive mill La Flor de la Alpujarra.

With the €6,000 positive balance we will have annually from the sale of energy, we will be able to repay the contributions to the internal bank, finance our workshops and offer 5% of our energy to single mothers. Any surplus will go into a fund to finance the installation of the next production point in the Alpujarra.

We anticipate that each time we install a new production point, it will be easier to finance the next one, but we will still need an internal bank mechanism with contributions of 85 euros.

cost of energy

5.5h peak hours of sun*	energy per day*	per month*	per year		energy month	admin month	monthly fee	total annual
1000 Wp	5.5 kWh	165 kWh	2000 kWh	0.11 €	18	3	21	250 €
				0.055 €	9	3	12	145 €
3000 Wp	16.5 kWh	495 kWh	6000 kWh	0.11 €	54	3	57	680 €

*average during the year

energy cost per self-consumer member, with an average annual price of €0.11 per kWh

For mothers in an energy poverty situation (who cannot afford to pay their electricity bills), the energy community allocates 2 KWp to be managed by the Órgiva women's association and social care from the townhall. These members only pay the annual fee of €20, and the 500 Wp of energy is donated to each of them.

Cost of self-financed energy with a return on investment in 12 years:

Members finance the installation of the panels themselves, paying €1,200 for 1,000 Wp of installed panels. They receive their solar energy at half price, 5.5 cts per kWh.

energy repartition

22 members consume 1000 Wp a 11 ct/kWh	22 KWp
3 SMEs consume 3000 Wp a 11 ct/kWh	9 KWp
7 members consume 1000 Wp a 5.5 ct/kWh	7 KWp
4 single mothers consume 500 Wp for free	2 KWp
total energy consumption	40 KWp

installation cost 40 kWp

installation (750 € por kWp): 40 x 750€	30'000 €
battery	4'900 €
industry register inscription	3'000 €
administrat (comercializadoras and more) 38 members, 3h per member, a 15 €/h	1'650 €
installation tax (town hall, 3% de 35'000 €)	<u>1'050 €</u>
total	40'600 €

installation financing

7 membres autofinancing 1000 Wp	7 x 1200 €	8'400 €
115 people contribute €85 to the internal bank		9'775 €
subvention CE implementa from IDAE		20'000 €
one-off registration fee for self-consumption project	32 x 100€	3'200 €
4 single mothers consume 500 Wp each one for free		<u>0.000 €</u>
total financing		41'375 €

annual cost of internal bank money

anual devolution during 5 years	2000 €
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annual fixed costs

civil liability insurance	390 €
general administration, maintenance, 1.5 hours/week, at €15/hour	1'170 €
bank account	150 €
phone and datas	120 €
annual rent of roof	500 €
printing of information and posters	200 €
office rental	<u>300 €</u>
total	2'830 €

incomes

annual fees of 20 members plus 36 for self-consumption	56 x 20 €	1'120 €
energy sell to members	22 x 250 €/año + 7 x 145 €/año	6'5150 €
energy sell to 4 single mothers		0 €
energy sell to SMEs	3 x 680 €/año	<u>2'040 €</u>
total incomes		9'675 €

We should have €9,675 - €2,830 - €2,000 = **€4,845** of **positive annual margin** dedicated to the amortisation of the installation (€1,600) and the financing of the next production point (€3,245).



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cada martes de 10 a 13h



+ info desde nuestra web

written with natural intelligence...