



What to do with excess solar power reddit

What can you do with excess solar energy?

Use excess solar energy to power water features like fountains or irrigation systems. That enhances your garden's beauty and utilizes clean energy for maintaining your outdoor space. If you own an electric vehicle (EV), your excess solar power can be put to great use.

How to avoid losing excess solar power?

Another interesting option to avoid losing excess solar power is installing an Electric Vehicle (EV) charging station. Charging an EV vehicle with solar power is the future, is good for the environment, and reduces monthly gas expenses to \$0.

How can a home use excess solar power?

Source: Unison Using a device for the storage of solar power is one of the best ways to take advantage of excess solar power. When a home generates solar power during the day and stores excess energy to be consumed at night, the home can increase solar self-consumption.

How can a solar energy expert help your business?

A solar energy expert can help you create a load shifting plan to take advantage of the excess power produced by your solar panels. Depending on your business, you may be able to shift your most energy-consuming operations to times when your solar panels are producing maximum power.

Should I share or sell my excess solar energy?

Sharing or selling your excess solar power is not just beneficial for you. It is a step towards a more sustainable community. Here is how: Many areas offer a system where you can sell your excess solar energy back to the electricity grid.

What can you do with a solar surplus?

Your solar surplus can be a game-changer for outdoor enthusiasts. Consider using the excess energy to power portable batteries. These can be a boon for camping trips, powering everything from electric grills to portable lights making outdoor adventures more comfortable and sustainable. How about adding an eco-friendly touch to your garden?

As an example, in my city there's a project underway to build a solar farm and a power-to-x facility which will also provide district heating from the excess heat. It's privately funded and not the only one of its kind here in Denmark.

As soon as you have solar the biggest problem you have is what to do with the excess energy for 9-10 months of the year. I have a large, incredibly well insulated water tank that I dump heat in to once my LiFePO4

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batteries are full, up to 85°C. In the cooler months I use this sensible heat to run underfloor heating.

SRECs offer a market-based approach to monetizing excess solar power. For every megawatt-hour of solar electricity generated, you earn a certificate that can be sold on the market. Companies seeking to meet renewable energy requirements may purchase these certificates to offset their carbon footprint. SRECs provide a unique avenue for direct ...

Discussion of solar photovoltaic systems, modules, the solar energy business, solar power production, utility-scale, commercial rooftop, residential, off-grid systems and more. Solar photovoltaic technology is one of the great developments of the modern age. Improvements to design and cost reductions continue to take place.

Solar energy is one of the best converting this solar radiation into electricity. The amount of power produced depends on several factors like climate, sunlight exposure, solar panel efficiency, the tilt angle of the panels, the size of the system, and others factors. During solar system installations, you might opt for a solar system smaller than the load, roughly equivalent ...

Also, in summer, solar Max between 9am and 6pm, even tho the day is much longer, from 6am to 9pm, so a ton of excess power Im not going to use. No need for hot water from May to October... when there are more sun hours, but it is something we are considering at home for winter.

Learning to use excess power from your solar panels effectively opens up a world of possibilities. From smart home integration to innovative community projects and even creative ...

If the battery is full and there's nowhere to put the power, the inverter will shut down the array--the panels don't make any power if they're not connected to a complete circuit, just like a battery doesn't just spew power out into the world when it's sitting in a drawer (OK they do self-discharge but that's another conversation), and just ...

Thing is that takes around 3k watts, and your solar is only going to be generating peak power for what, 6 hours a day? So you'd need a lot of excess capacity, plus batteries, and that's assuming it's even paid off. All for 6\$ a day. Not really worth it unless your running at scale, and of course that brings its own challenges

Discussion of solar photovoltaic systems, modules, the solar energy business, solar power production, utility-scale, commercial rooftop, residential, off-grid systems and more. ... You will be paid out for any excess at the "avoided cost" rate, around .07/kWh. So you do get something back, but if you have any valid use for the power better to ...

All summer you could be moving some large mass of water uphill during times of excess solar power and then in the winter you could run that water back down hill through a micro hydro set up to supplement your waning

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solar production. This is probably most applicable to folks living far from the equator, and especially folks who have a cloudy ...

When the batteries have the same voltage as the solar panels try to upload, current does not flow. Power only flows when voltage is higher on one end and lower on the other. When you need power, you are lacking voltage, so the higher voltage solar/battery will give you the voltage for as long as the two voltages remain mismatched.

Not exactly "fun" but the best thing you can do with excess power is sell it to someone else who would otherwise use dirty power. Obviously trying to grid-tie is a thing... but it could be simpler, like running an extension cord to your neighbors house in exchange for \$5/month.

The way net metering works in my area means that any excess solar power I generate will be used by my power company to supply my neighbors during peak demand times at peak rates. However, when it's time to true up I will only get paid about 4% of what they charged my neighbor for that power. I do not want to participate in that racket.

And of course, if there's still surplus, folding@home, crypto mining, etc., are all good ways to use excess, free power. :) Some people I know have excess power /in the winter/ sometimes... so they heat their house with crypto miners in the winter months. Especially if the alternative is resistive heating, there is no reason NOT to crypt mine ...

All seems great, but I can't help feel like I'm wasting the excess energy by selling back to the grid (only 6c per kWh), instead of utilising it for another purpose. I'm wanting to shorten the payback period by as much as possible, and selling to the grid isn't an effective way to do so.

The charge controller should simply stop charging the batteries otherwise, yes they will be damaged if overcharged. "Excess" power generated by the panels is actually dissipated in the panels themselves, the voltage on the panels rises to the open circuit voltage which is the forward conduction voltage of the silicon junctions.

Therefore, excess photovoltaic production happens relatively often, even when the photovoltaic system is sized so that it does not exceed the building baseload consumption. Alternatives for managing excess solar ...

The answer in this case is rather easy, you can't use a series setup with those solar panels and the charge controller you've selected. The reason being that the open circuit voltage for those solar panels is 22.5V (from the ebay listing) and the maximum allowable input voltage for the solar connection on the charge controller is 25V (from the product manual).

You do. Your house will draw power from the panels first, then any excess is sent to the grid, of if you need



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more power, you draw power from the grid That's why using heavy energy use appliances are recommended to be used when the panels are at least producing as much power as is being drawn by the household.

The system would use net metering, so I would still have a relationship with my electric company. However, it was explained to me by the solar company that I would never receive a cash buyback from the electric company for excess energy; it would only provide a credit to my electric account.

In California, they use "ice banks" which freeze tanks of water from excess solar then circulate water to melt the ice and cool inside air with it. For heat, there's a company that heats up silo ...

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