

Join The **swell** Virtual Power Plant

Creating a greater grid for the greater good



Swell Energy is developing a Virtual Power Plant in your community!

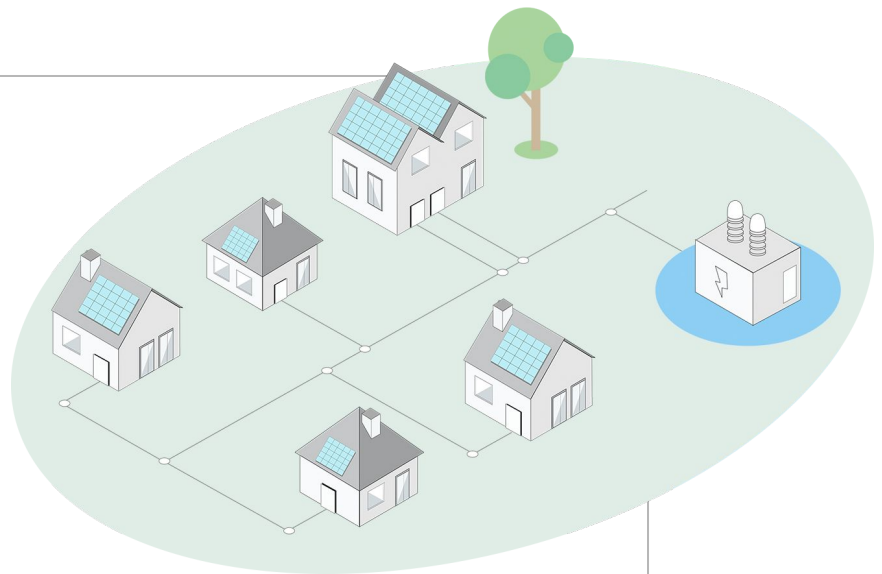
Together, solar, battery storage, and Swell Energy's virtual power plant bring a unique and powerful set of benefits for homeowners like you!

Enjoy home **energy backup** at your residence for peace of mind, Grid Rewards **payments** to reduce energy costs, increased energy resiliency for your neighborhood, and reduced pollution for the planet.

What is a Virtual Power Plant?

A Virtual Power Plant is a power system that improves grid reliability and reduces dependence on traditional fossil fuels. By orchestrating thousands of distributed energy resources like residential **solar** and **energy storage** systems, Swell reduces grid stress and the need for new energy infrastructure.

Install or enroll your solar + energy storage home energy system today to optimize the power you produce, achieve energy security, and save.



GET STARTED TODAY!

Visit swellenergy.com

Or call 888.465.1784



Read more about the **swell** Virtual Power Plant

GRID EDGE

Swell Readies \$450M in Financing for Solar-Plus-Battery Virtual Power Plants

The California startup's plans for virtual power plants in three states add to a group of fast-growing investments in distributed energy as assets.

JEFF ST. JOHN DECEMBER 11, 2020

[See the entire article here](#)

Swell Energy Announces Capital Partnership to Deploy Portfolio of Virtual Power Plants Comprised of 14,000 Distributed Energy Storage Systems

[Swell Press Room](#)

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Virtual Power Plant FAQs

■ What are the benefits of participating?

- Earn money from your solar + storage home energy system
- Reduce fossil fuel emissions
- Support the transition to a renewables-based economy
- Increase grid stability
- All while maintaining your ability to draw energy from your battery storage if you need it in the event of an outage

■ How do I join the Swell Virtual Power Plant?

- The first step is to contact Swell! Visit swellenergy.com/sunstreet or call 888.465.1784
- Your Swell representative will pre qualify you for participation, explain how it works, provide a custom design and energy proposal based on your needs, check for local, state and federal incentives that may reduce your cost, schedule installation, and answer any questions you have along the way!

■ How do I get compensated for participation?

- Swell Energy's VPP Program pays you back! Payment amounts and timing varies by state. Your Swell Energy Sales Consultant will explain your options, estimate payment(s) and help you find the best option in a formal proposal.

■ How can I ensure that I'll always have backup energy if I need it?

- The battery will always retain a percentage of its capacity as backup.

■ What are the program requirements?

- Your home must be in a location where the program is active, your home must have a home battery, and you must unenroll in other demand response programs that you may be participating in. Your Swell Energy representative makes it simple!

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The Grid Services Agreement

Understanding the details of the Swell Virtual Power Plant

- The goal of this program is to “make your home invisible” to the grid during peak usage periods. By becoming a part of our virtual power plant, you will enable the utility (and you) to avoid the purchase of very expensive, spot market power during these high demand events *and* you will be compensated for doing so. Win-win!
- If your area has a power outage, in most cases you will not even know they have occurred until you hear about it from a friend. Your backup mode immediately responds in the same manner with or without Grid Rewards participation. The size of your solar system, the number of batteries that you purchase, the length of the outage, and how much power you consume during the outage will determine how long your battery will last. Your Swell Sales Consultant can help you select the right system for your needs and explain how to extend your backup duration during an extended outage.
- Most people program their batteries to TOU Rate Shifting settings so that the batteries’ programming will automatically store during Off-Peak Periods and deploy solar electricity during Peak Periods, when rates are the highest. Swell Active Management ensures that these program settings are always current, optimized and functioning.
- You will still be able to view and monitor their system via the Tesla app. Swell offers an added layer of protection and monitoring that enable both bill savings and peace of mind. Swell only optimizes your battery (i) to discharge during demand response events (up to 15x/month, between 4pm-9pm which is when your battery will already be set to discharge for maximum savings, (ii) to prevent the battery from discharging during baseline days (3x/month), and (iii) ensure the battery is charged for events
- If you want to personally manage programming updates, monitor the health and functionality of your energy management system, and govern 100% of the usage of your battery in ways that might work against the goals of this program, then you should definitely not sign up. However, this program has been designed to operate in the way that mirrors the goals that most people have when they add a battery to their solar system; to save as much money as possible by deploying electricity generated by their solar system when it will save them money.

The Grid Services Agreement

Understanding the details of the Swell Energy Virtual Power Plant

- By participating in this program there will be no changes to your SCE relationship or billing other than the intelligent deployment of your solar generation during costly peak-rate power each month. Annual Participation Awards (or “Grid Rewards”) will be sent to you upon continued renewal after the initial term of your service agreement.
- Your battery will not be deployed 3 out of every 30 days to give the utility valuable data to help improve the overall efficiency of the grid moving forward.
- Batteries will only discharge to cover a home’s consumed loads. They are not discharging power to the grid.
- There will never be a Demand Response Event immediately prior to an announced PSPS event meaning your battery will remain full to support your home in the event of a power outage.

----- Glossary of VPP Terms-----

- **Peak / Off-Peak:** Peak is when electricity demand is greatest, generally 4pm - 9pm. and “Off Peak” is when it is lower, typically overnight.
- **Time Of Use:** Time-of-use pricing (TOU) typically applies to usage over broad blocks of hours (e.g., on-peak=6 hours for summer weekday afternoon; off-peak= all other hours in the summer months) where the price for each period is predetermined and constant.
- **Public Safety Power Shutoff:** A power shutoff, also called a PSPS, in response to severe weather. Utilities turn off power to help prevent wildfire and keep communities safe.
- **Demand Response Event:** a way to reduce the stress on the grid and high electricity prices. By curtailing, or reducing, the demand for electricity during certain time periods, demand response programs are able to cut prices by reducing the need to run high-cost generators.

The Grid Services Agreement

Understanding the Grid Services and Participation Agreements

Overview:

- The utility will never control your battery
- These programs are intended to bring financial and performance benefits to participants and their community.
- You can opt out at any time
- We will never “sign you up” for a program that you have not “opted in” to.

Grid Services Agreement (GSA)

1. **Purpose:** is an umbrella for all future Grid Services Programs and allows Swell to administer these programs on your behalf. All mutual benefits will be called out in a "Participation Agreement" for each program you are enrolled on an "Opt-In" basis.
2. **Grid Program:** Swell will monitor and manage the equipment (PV, Battery) to assure compliance and operation of equipment. The specific Grid Program and Grid Services will be called out in the Participation Agreement
3. **Appointment of Grid Services Provider:** You agree that you are appointing Swell as your Grid Services Provider and enroll you in any Grid program established under a Participation Agreement in which you have opted in
4. **Access to Data and Equipment, You agree to,**
 - Swell may access your personal data related to your equipment performance including usage data, and utility account information.
 - Allow access to the equipment at your location at agreed-upon times.
 - provide an internet connection
 - provide any equipment and design documentation needed in support of the Grid Program including any potential modification or additional hardware required to comply with the Grid Program
5. **Term:** The GSA is a 1 year term with automatic annual renewals. This agreement will continue as long as any Participation Agreement is still in effect
6. **Moving from your Property:** If you move you may take this agreement with you if you move to a qualified territory, transfer this agreement to the new homeowner, or terminate under the early termination requirements.
7. **Default:** See agreement
8. **Miscellaneous:** See agreement

The **swell** Grid Services Agreement

Understanding the Grid Services and Participation Agreements

Participation Agreement

The Participation Agreement describes the Grid Service program details, requirements, and benefits

Program Terms and Conditions:

1. Get paid to be part of the program (1 or 3 yrs)
2. Payment will be made 60 after date of signature or permission to operate from the utility Swell intends to manage the Equipment such that the Battery System:
 - a. charges from the PV System (if applicable);
 - b. does not grid charge between 4 p.m. and 9 p.m. on weekdays;
 - c. is charged, to the fullest extent possible, by 4 p.m. on weekdays; and
 - d. between the hours of 4 p.m. and 9 p.m. on weekdays either
 - i. discharges to reduce your homes net load for up to 4 consecutive hours (anticipated to be 15 weekdays per month); Essentially operating as you want.
 - ii. does not discharge (anticipated to be 3 weekdays per month). This is intended to allow your Utility to analyze your energy usage;
 - e. At all other times, your Battery System is expected to operate per your specification.
3. **GridRevenue:** Get paid to be part of the program (1 or 3 yrs).
 - a. Payment will be made 60 after date of signature or permission to operate from the utility
 - b. After the initial term you will receive annual incentives 60 days after the renewal term ends.
4. **Term & Termination:** This agreement is for () yr(s) and will renew automatically each year unless terminated by you or program termination. If you request to terminate it may take up to 95 days to be effective.
5. **Early Termination Fee:** If in the initial term you elect to terminate early you owe Swell a prorated amount of the initial incentive amount paid.
6. **Other Utility Programs:** No other demand response programs are allowed while participating in this program including SCE's Summer discount program or Smart Energy thermostat program
7. **Required Forms:** You agree to complete any additional forms required by the utility or Swell to participate in this program
8. **Fossil Fuel Generators:** This program restricts the use of any fossil fuel generator to be used to reduce consumption from the grid other than during a power outage
9. **Rate Schedule Requirements:** There are certain rate plans that are not allowed in this program that not typical residential plans
10. **Smart Meter:** you must have an approved SCE smart meter