

PLUG-IN BALCONY SOLAR IS COMING TO NJ

**Steve Miller
August 2026**

**Free Electricity: Directly
from the SUN Into Your
Home!**



**Mount on Balcony
or Wall
or Yard
or Canopy
or Fence or ...**

**Then just
Plug into any outlet**



New Jersey Passes Law Allowing Plug-in Solar

**On June 30, 2026, the NJ
Legislature unanimously
passed the Garden State
Balcony Solar Act
allowing plug-in solar with
no permit required.
Awaiting Gov. Sherrill's
signature. Goes into effect
6 months after signing.**

**Low-Cost Electricity Is
Now Available For Every
NJ Resident**

**\$285 buys a complete
solar kit: single solar
panel plus inverter. Place
panel in sun, plug into
nearest 120-volt outlet,
and pipe free electricity
directly from the sun into
your home's electrical
system!**

No Activity

2026-8-18 STATUS OF PLUG-IN BALCONY SOLAR BILLS



Who is a candidate for plug-in solar?

- **NJ homeowners**
- **Renters**
- **Tenants**
- **Single or multi-family units**
- **Who pay their own electrical bill**

**Landlords, HOA, or Condo Assoc,
can request reasonable solar
mounting locations but are not
allowed to ban the presence of
panels.**

**How much does
plug-in solar cost?**

**What is the savings in
your electrical bill?**

- **Nonprofit “Bright Saver” is the first (July 2026) to provide DIY solar balcony kits that are compliant with UL 3700 photovoltaic safety standard.**
- **2 kits are available with \$29 Bright Saver membership:**
 - **Single 180w panel + inverter for \$285**
 - **Two 180w panels (360w) + inverter for \$414**
- **Payback is 4 years for 2-panel kit.**



**FIRST
CERTIFIED**
in the U.S.



Touch-safe Disconnect

Power drops to a safe level within 1 second after unplugging.



Anti-islanding

Automatically stops exporting power during grid outages.



Bidirectional GFCI Compatibility

Designed for safe bidirectional power flow.



Breaker Masking Mitigation

Mitigates breaker masking risks unique to plug-in solar.



HiFlow Pro

Plug-in Microinverter | Special Offer

BUY NOW

To Buy a Balcony Solar Kit

[About](#)[What is Plug-In Solar?](#)[Balcony Solar](#)[Become a Member](#)[Join](#)

Balcony Solar Has Arrived

Start generating clean electricity today. Bright Saver members get the Balcony Solar Kit **at cost** with their \$29 annual membership.



MEMBER PRICE starting at

\$285.30

Save \$213.70 vs Retail

Choose Your Option

New to Bright Saver?

\$29 per year

1 year of membership for \$29 + at cost panels. You'll save \$213 over retail (\$284 with two panels).

[Become a Member](#)

Already a Member?

\$285.30
members only

Log in to access your member-only pricing.

[Log In](#)

Just Want the Panel?

\$499
no membership

Buy the Balcony Solar Kit at full price, no membership needed.

[Preorder](#)

180 or 360 W

Standard Outlet

DIY Installation

Free Shipping

This plug-in solar panel is a compact, affordable way to start generating your own electricity. No roof or electrician required. We offer kits with one or two panels and 180 W and 360 W of output, respectively.

The system is designed to be easy to use and install. Just mount or hang it onto a wall, fence, or balcony

Why are Bright Saver prices so low?

- **Bright Saver is a non-profit selling the solar kits at cost to members.**
- **As a non-profit with a mission to educate people about clean energy and make balcony solar affordable and accessible, its work is supported through membership fees and donations.**
- **It will be working to promote improvements in future panel efficiency and batteries.**

Garden State Balcony Solar Act

**Exemption for small
systems less than 400
watts**

- **A balcony solar system generating less than 400 watts can be plugged into any standard 120-volt electric outlet.**
- **No alterations of building wiring would be required.**
- **Installation would require no permissions or permits from electric company or local or state authorities.**
- **Will require compliance with 2029 National Electrical Code and Uniform Construction Code.**

(Steve's Interpretation) Pending Garden State Balcony Solar Act (requirements for 1200 watt plug-in solar)

**The Plug-in Solar Act
punted, to NJ Community
Affairs Codes & Standards
Division, the necessary
detailed wiring changes
required to enable 1200
watt plug-in solar.**

- **Maximum power of 1200 watts is connected thru a standard 120 v outlet, BUT likely requires wiring changes by a “qualified person”: dedicated circuit, power monitoring equipment, or increased wire gauge)**
- **Meets UL Standard 3700 “Outline of Investigation for Interactive Plug in Photovoltaic Equipment and Systems”**
- **Prevents power export to the grid during a power outage**
- **Complies with installation provisions of 1.UL (protection from electric shocks,...), 2.National Electrical Code & 3.NJ State “Uniform Construction Code”**
- **Total power of all portable solar generation devices installed in a dwelling unit does not exceed 1200 watts.**

**(Steve's interpretation)
Based upon current
guidance from “UL
Solutions” Safety
Considerations for Plug-In
Photovoltaic (PIPV)
Systems, possible wiring
requirements for 1200
watt “balcony solar”
installations might
require:**

**Possible wiring rules for 1200 watt “Plug-in
Solar” from NJ Code Enforcement:**

- **Dedicated circuit with bi-directional circuit breaker (outdoor receptacles must be guarded by a GFI device) OR**
- **Power monitoring system OR**
- **Increasing gauge of circuit wiring to accommodate sum of the rating of the circuit breaker plus rating of the portable solar generating device**

**(Steve's interpretation)
Pending Garden State
Balcony Solar Act
(requirements for 400
watt plug-in solar)**

- **Exempts systems less than 400W from most 1200W requirements; allows plug-in to standard 120V outlets with no wiring changes**
- **Allows multiple 400W systems to be connected in a dwelling unit, up to the 1200W limit.**
- **A code requirement is needed (2029?) to require that each 400W system be connected to a separate circuit/circuit breaker.**

Notable requirements of the Plug In Solar Act

A municipality shall not

- **prohibit the use of a portable solar generation device on a residential property**
- **require a permit, application, fee, license, or other approval for the placement or use of a portable solar generation device**

Electric utilities shall not require portable solar generation devices to

- **Obtain approval, pay any fees/charges,**
- **Install any additional controls or equipment**
- **Require an interconnection agreement**

Apps that track solar performance

“S-Miles Installer” and “S-Miles Enduser” are freely downloadable apps that demonstrate how Bright Saver solar performance data will be captured and graphically displayed.

Alternative Suppliers of Plug-In Solar

- **German plug-in balcony solar installations have exploded over the last decade; more than 4 million balcony solar systems installed in Germany.**
- **CraftStrom and EcoFlow are beginning to market in the US.**
- **Their current designs leverage design progress over multiple generations. This is to our benefit in quality and cost.**

New Technologies Are Being Deployed

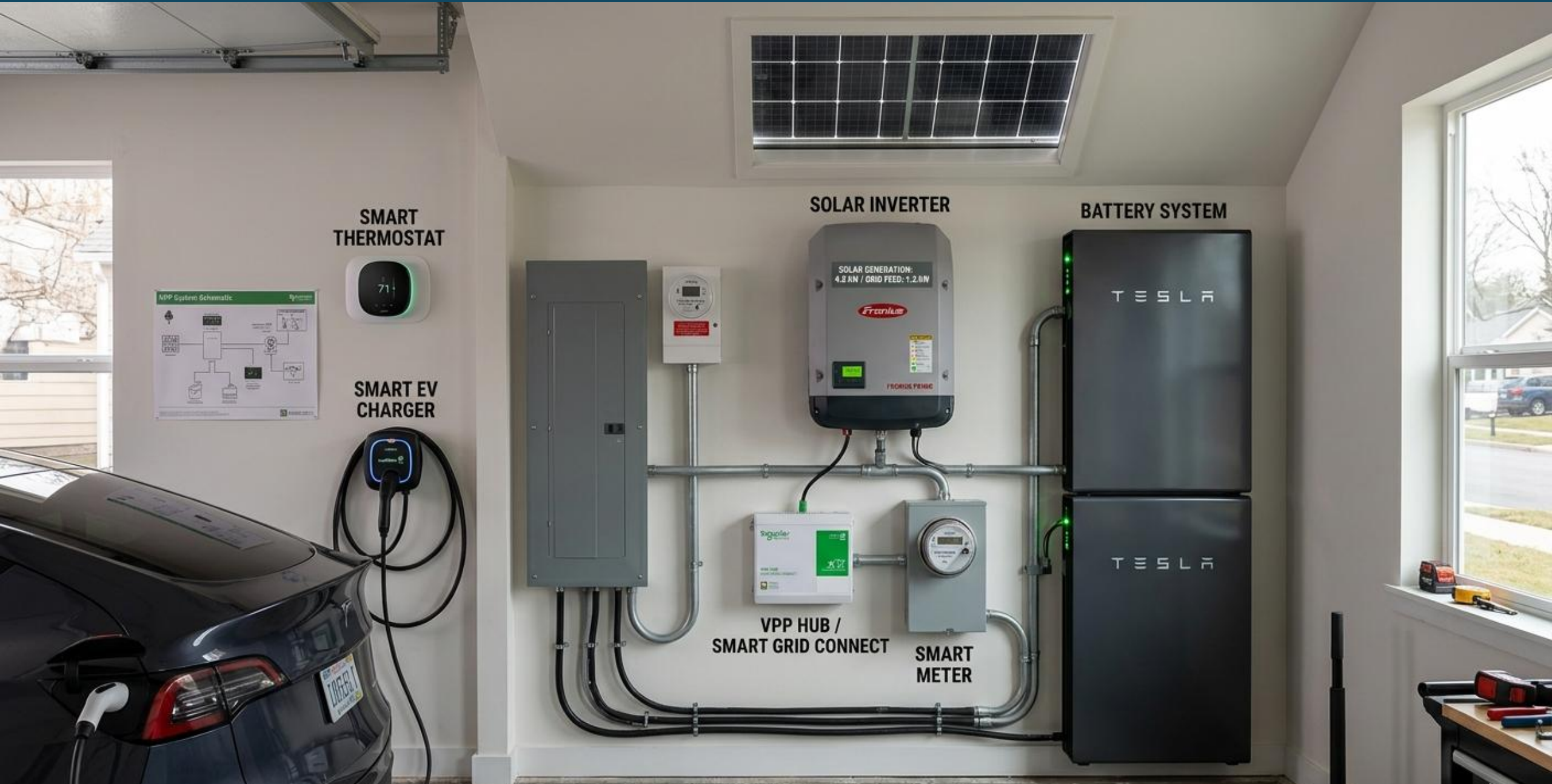
- **Plug-In Balcony Solar Is Here**
- **Adoption of Rooftop and Community Solar, Agrivoltaics, Batteries Is Speeding Up**
- **Offshore Wind Being Deployed All Around Us**



What Is a Virtual Power Plant (VPP)

- **A Virtual Power Plant (VPP) is a community of electric customers on the local power grid who agree to network their energy resources – such as home batteries, smart thermostats, EV chargers, and solar systems – via an “aggregator” – to support the grid in ways similar to a traditional power plant. Usually in return for compensation to the customers.**
- **Utilities have had Demand Response (DR) programs for a long time. They were limited to 1-way communication to a willing customer’s not-smart thermostat ordering it to curtail energy consumption during a peak-demand period.**

Typical VPP Customer Components



Benefits of VPP

- **Adding large amounts (GWs) of capacity quickly and nationwide (without big siting/permitting issues)**
- **Economic Efficiency – the market delivers the value (but with rules)**
- **Energy Efficiency – better use of all the components in the system**
- **Better understanding of the energy system – education**
- **Cleaner with the same or better reliability, resiliency and affordability**

There ARE costs for deploying VPP programs. The costs are MUCH less than building more transmission infrastructure.

The Future for (Clean) Energy – Integrated and Holistic System



Now: You can

- Upgrade your home's building shell and weatherization
- Electrify your home with heat pumps, induction stoves and LED lights
- Upgrade your ride to an EV and EV charger
- Power your home and EV with solar and battery storage
- Manage your home with smart appliance and chargers

Coming soon: You can

- Send your stored energy to the grid as part of a virtual power plant

NEED MORE INFORMATION?

**References To Building Electrification
(~1000 references, indexed by topics):**

<https://climate.smiller.org/REF/>

The very top reference (top of page) is 5 years of monthly webinars listed by date/title/announcement details/and links to recording, slides, and Q&A (as appropriate): <https://climate.smiller.org/50x30/building-electrification/All-heat-pump-webinars.html>

We created and maintain a NJ Electrification Coach Network of experienced volunteers for any dwelling-related electrification questions: <https://njecn.substack.com> Click on coaching tab to request a coach.