

Balcony Solar: Buy a panel or two and plug in?!

Sierra Club, Jersey Shore Group

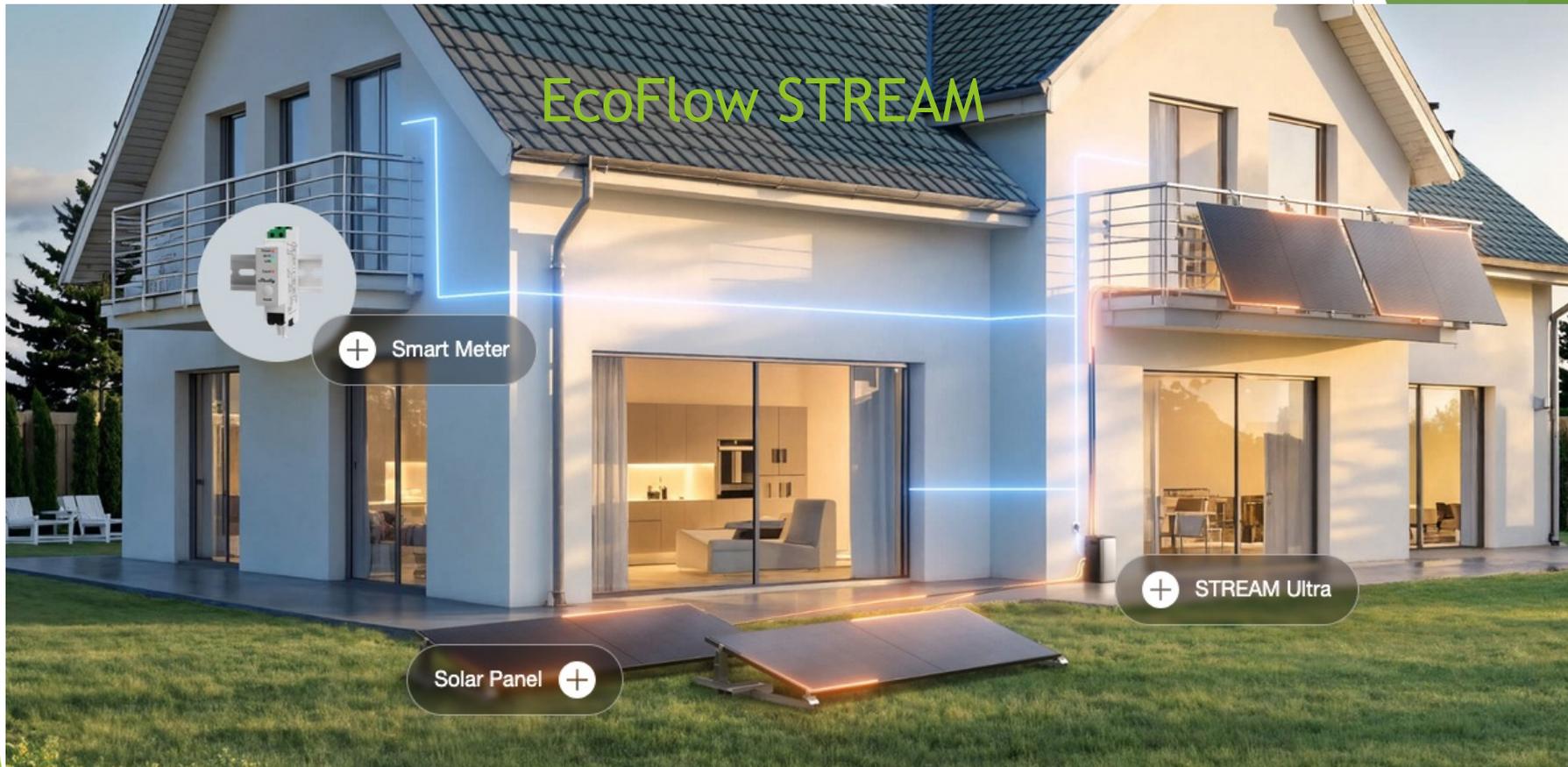
Dan Terpstra

Third Act

Nov 20, 2025



What's Balcony Solar? (aka Plug-in Solar or Portable Solar)



Where's Balcony Solar?

Germany: Balkonkraftwerke

- ▶ 2017: Early Advocacy
- ▶ 2019: Safety Standards
- ▶ 2020 - 2022:
 - ▶ COVID and DIY
 - ▶ Russia invades Ukraine
- ▶ 2023: Market Explodes
 - ▶ 550,000 registered systems installed
- ▶ 2024:
 - ▶ Capacity increase from 600W to 800W
 - ▶ Streamlined online registration
 - ▶ Tenant rights
- ▶ 2025:
 - ▶ 1M systems registered
 - ▶ == 4 - 6 virtual nuclear plants!

Other EU Countries

- ▶ The Netherlands 
- ▶ France 
- ▶ Spain 
- ▶ Italy 
- ▶ Austria and Belgium 

Utah

- ▶ Legislation introduced in March 2025 by Utah State Rep. Raymond P. Ward
 - ▶ Libertarian Republican
 - ▶ “Power to the People”
- ▶ Passed with unanimous, bipartisan support
 - ▶ (72-0 in the House, 27-0 in the Senate)
- ▶ Creates a New Legal Category:
 - ▶ “Portable Solar Generation Devices.”
 - ▶ 1200 W or less
- ▶ Effective Date: May 7, 2025
- ▶ Still working through UL / NEC compliance issues

No Panel is an Island! Utah Legislation



UL 1741

in Device

No BackTalk?

No Permits!

No Net Metering!

No Payments!

No Fault!

54-15-601

(1) A portable solar

(a) is exempt from

(i) the inter

(ii) requirem

and

(b) is not subj

(2) A portable solar

system from ener

(3) An electrical c

(a) may not re

(i) obtain th

(ii) pay any

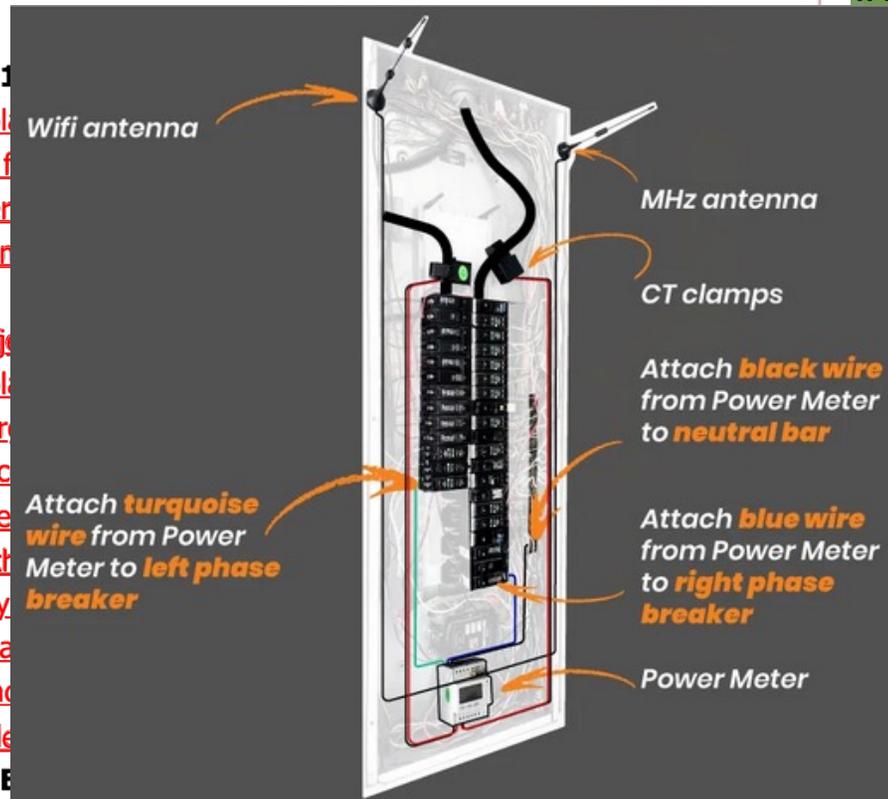
(iii) install a

system; and

(b) is not liable

Section 3. E

This bill takes effect on May 7, 2025.



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5-103;

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Nationwide

▶ Legislation in Place

- ▶ Utah

▶ Announced Bills

- ▶ Vermont
- ▶ New York
- ▶ New Hampshire
- ▶ Pennsylvania
- ▶ Maryland

▶ Legislation in Development

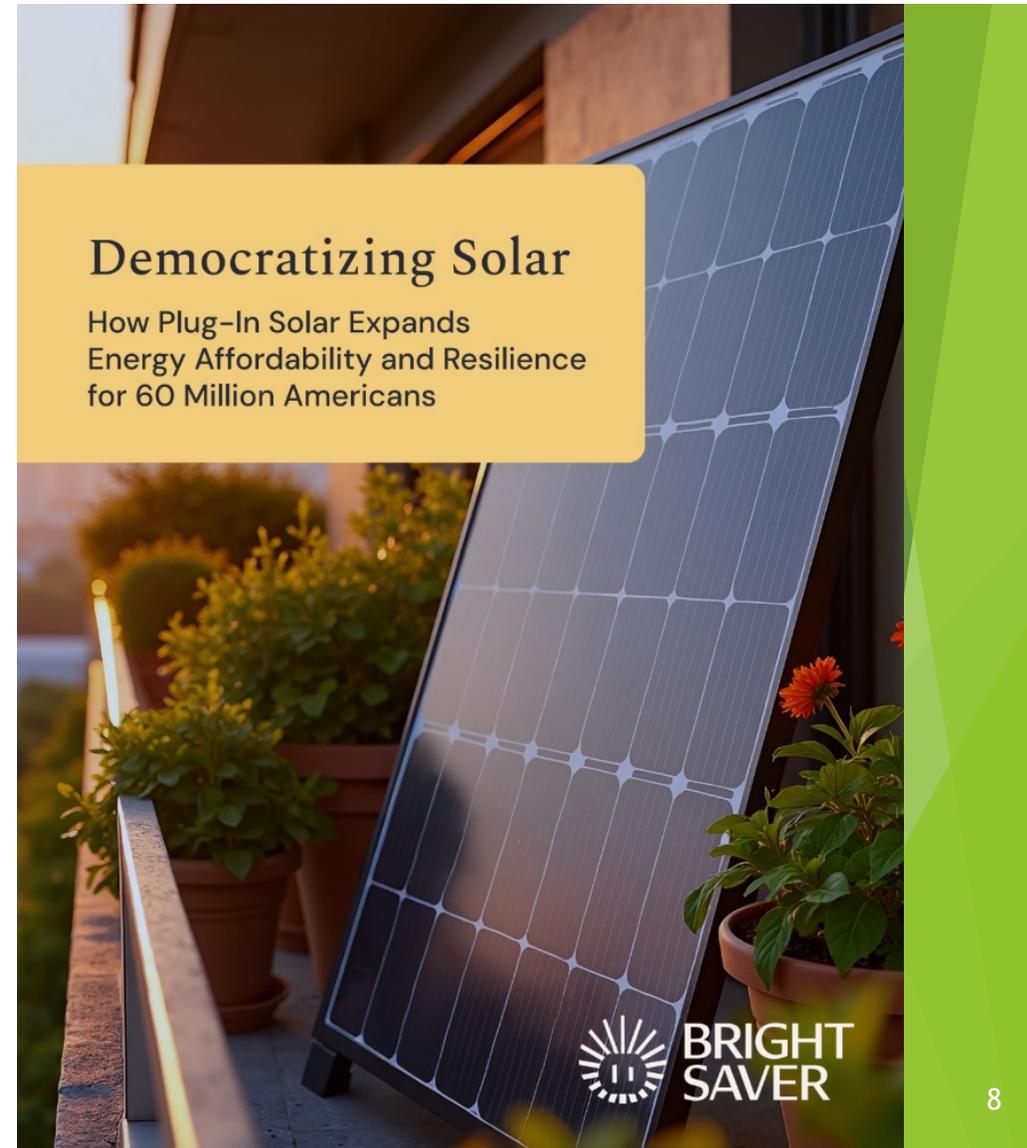
- ▶ New Jersey (*Bill S4786*)
- ▶ Washington State

▶ Exploration Underway

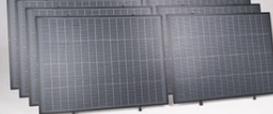
- ▶ California
- ▶ Tennessee
- ▶ ...more?

BrightSaver

- ▶ <https://www.brightsaver.org/whitepaper>
- ▶ If five states legislate Plug-In Solar
 - ▶ No subsidies needed
 - ▶ Cost drops to ~\$0.50/W in two years
 - ▶ Payback drops to
 - ▶ ~4 years by 2028
 - ▶ ~3 years by 2032
 - ▶ 2035 Penetration could reach:
 - ▶ 24M Households
 - ▶ 60M citizens
 - ▶ One in six Americans



Vendors: Craftstrom

4 PANELS + STANDS	6 PANELS + STANDS	8 PANELS + STANDS
 2 INVERTERS METER 1 AC CABLE + 1 CONNECTOR	 3 INVERTERS METER 1 AC CABLE + 2 CONNECTOR	 4 INVERTERS METER 1 AC CABLE + 3 CONNECTOR
800 Watt Plug&Play Solar Up to 1440 kWh / year 4 x 200 Watt Bifacial Solar Panels Up to 30% more output 2 x 350W Smart Inverter UL certified 1 x Smart PowerMeter 2 x Inverter Connector Cables 1 x AC Cable Connect to any outlet App \$2,031.50 Buy now	1200 Watt Plug&Play Solar Up to 2160 kWh / year 6 x 200 Watt Bifacial Solar Panels Up to 30% more output 3 x 350W Smart Inverter UL certified 1 x Smart PowerMeter 3 x Inverter Connector Cables 1 x AC Cable Connect to any outlet App \$3,048.00 Buy now	1600 Watt Plug&Play Solar Up to 2880 kWh / year 8 x 200 Watt Bifacial Solar Panels Up to 30% more output 4 x 350W Smart Inverter UL certified 1 x Smart PowerMeter 4 x Inverter Connector Cables 1 x AC Cable Connect to any outlet App \$4,064.00 Buy now

Vendors: EcoFlow*

First Choice



STREAM Ultra
Assuming 2000W full solar input

Save \$642 on Bills Annually

36.7% self-consumption rate	4,015kWh generated per year with this system	4,002 kg reduces CO ₂ emissions
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\$1,199 ~~\$1,899~~

[Buy Now](#)

2kW STREAM Ultra Basic Set



STREAM Ultra + 4 x 400W Rigid Solar Panels
Assuming 1600W solar input

Save \$513 on Bills Annually

29% self-consumption rate	3,212kWh generated per year with this system	3,202 kg reduces CO ₂ emissions
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\$2,799 ~~\$3,699~~

[Buy Now](#)

3.2kW STREAM Advanced Set



STREAM Ultra + Microinverter
Assuming 3200W full solar input

Save \$1,027 on Bills Annually

50% self-consumption rate	6,424kWh generated per year with this system	6,404 kg reduces CO ₂ emissions
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\$1,459 ~~\$2,399~~

[Buy Now](#)

* Only in Utah

Vendors: Zendure



SolarFlow Kit

\$3,932.00

Starting at \$137/mo or 0% APR with [affirm](#). See if you qualify

Sold Out

From **\$354.90/mo** with [shop Pay](#) [Check your purchasing power](#)

Questions?

