

Commitment to Our Future, Together

We believe in a customer-led clean energy future

2007	Changed solar industry	with solar-as-a-servi	ce model for home
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solar

2016 Batteries added as option to provide resiliency for homes & the

grid

2019 Won bid for first residential virtual power plant in wholesale

market

2021 Partnership to introduce V2H/V2G Ford Home Integration

System

2023 Running VPPs across the country with tens of thousands of

customers

OUR IMPACT

- 6.5 GW installed solar capacity
- Installing equivalent of 1 nuclear plant per year starting in 2023
- Over **900,000** customers; **76,000+** solar+storage systems
- 00 states plus DC and Duarte Dias





VPPs unlock clean electrification - keeping costs down and reliability up

- As we electrify the economy, annual national kWh consumption will double. [ReWire America/Saul Griffith]
- If kW peaks continue to rise, then grid costs will grow exponentially.
- VPPs / flexible demand are necessary to smooth, shift, and chase these peaks on a daily, monthly, and yearly basis.
- 80-160 GW of VPPs by 2030 to help address national capacity needs could save on the order of \$15-35B in annual grid costs and will direct grid spending back to electricity consumers.
 [Brattle]



Three Flavors of VPP: Open-Access, Wholesale Markets, Bi-Lateral Contracts; but really batteries/EVs on a timer!



Open Access

E.g., ConnectedSolutions in MA, Efficiency Maine Trust BYOD pilot, Puerto Rico. Most robust, established VPP program design in country.



Wholesale Markets

E.g., ISO-NE capacity market. Very high friction, low value.



Bi-lateral Contracts

E.g., PG&E Contract with Sunrun - fleet of more than 8,500 customers to provide nearly 30 MW of peak power daily. Peaked at 32 MW. August-October 2023, batteries discharged daily between 7-9 p.m.

Sunrun 2023

