

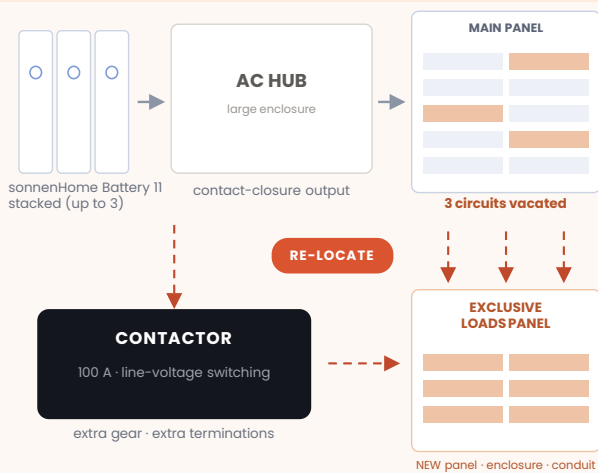
The Next Gen sonnen Electrical System

Shed loads where they live. Say goodbye to load relocation, Exclusive Loads Panels and extra equipment requirement to shed loads. The sonnenHub features integrated load shedding. Additionally, the VPP Smart Breakers, empowered by Adapt Energy, intelligently sheds the hard to relocate loads right where they sit. No relocated circuits. No contactor. No second panel.



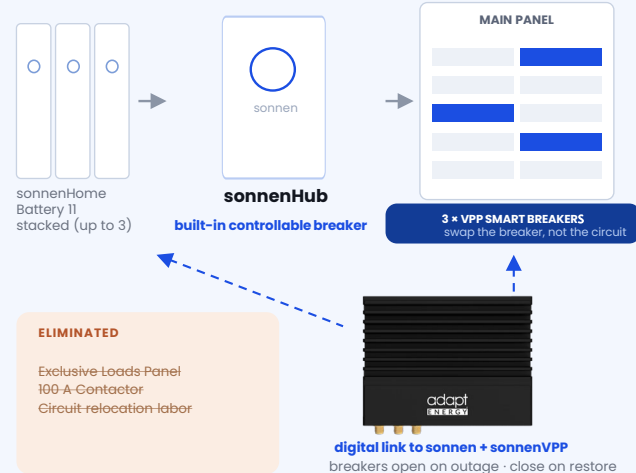
WHY SHED AT ALL → In a whole-home configuration, the moment grid power is lost and the battery stack forms its nano-grid, unmanaged large loads can bring the nano-grid down through inrush current or drain the batteries in a short period of time. Load shedding is what turns whole-home backup into robust backup.

BEFORE AC Hub + Exclusive Loads Panel + Contactor



- Every sheddable circuit is physically relocated to a new panel
- Panels, contactor, conduit and conductors added to BoS
- Hours of relocating and re-terminating loads.
- All-or-nothing shed: the entire panel drops, every time

AFTER sonnenHub + VPP Smart Breakers + ADAPT Energy



- The sonnenHub is a 200 Amp Service Entry Rated device featuring direct load shedding
- Built in 200 Amp Service Entry rated breaker eliminates upstream Fuse at service entry.
- Distant loads shed in place – swap the breaker and move on. No contactor, no extra panels, no relocated circuits
- Ability to alter which VPP breakers are programmed to autoshed during a power outage, by way of simple reconfiguration
- Automatic restore on grid return – no truck roll, no homeowner action



INSTALL FASTER

A breaker swap replaces a panel install. Fewer terminations, fewer inspection items, more jobs per crew per week.



CUT BALANCE OF SYSTEM

The Exclusive Loads Panel, the contactor, its enclosure, conduit and conductors all come out of the bill of materials.



RESTORE AUTOMATICALLY

ADAPT Energy keeps every breaker in sync with the battery – grid returns, breakers close, the homeowner never calls.

AND THEN

THE VPP KICKS IN!

The same VPP Smart Breakers installed for smart, configurable backup power add a new layer to the sonnenVPP.

With homeowner permission, they become dispatchable load flexibility during on-grid VPP events – complementing the VPP and leading to superior monetization potential. More VPP monetization equates to a better program for everyone: from the utility, to the homeowner, to the battery owner.

VPP Smart Breakers are Eaton AbleEdge products, linked to the sonnen ecosystem through an ADAPT Energy controller. Breaker automation automatically reacts to off-grid status by opening and shedding load. Breaker automation closes the circuit, restoring load, based on an on-grid signal from sonnen, managed through ADAPT. There is no homeowner app for VPP breaker control; commissioning and setup are performed by the contractor through a web application. On-grid VPP load flexibility is a planned capability and requires homeowner opt-in. sonnenHub: 120/240 V 60 Hz · 200 A grid/backup OCPD · 225 A busbar · NEMA 3R · indoor/outdoor · up to three stacked sonnenHome Battery II systems