

HOMEOWNER GUIDE

The Homeowner's Guide to Long- Duration Backup Power

What actually keeps a home running through a multi-day outage — and why a battery alone isn't built for it.

Always ready.

THE PROBLEM

A battery buys you hours. Power outages last days.

Home batteries are quiet, clean, and good at exactly what they're built for: covering a few hours of evening use or a short blip in service. But for the average U.S. household, a battery alone provides fewer than 12 hours of backup — less for larger or all-electric homes. When a storm knocks out power for two days instead of two hours, most battery-only systems run dry long before the grid comes back.

<12 hrs

Average battery-only backup,
U.S. household

~6 days

Typical standby generator, on a
250-gallon propane tank

~50 days

Battery + Redde, on that same
250-gallon tank

It's a gap more homeowners are discovering firsthand. Solar-and-battery households who assumed they were covered are learning that a system sized for daily savings isn't the same as a system built for a multi-day outage. When the sun isn't out and the storm keeps going, the battery empties — right when it matters most.

"A battery gives you a limited window of time. Redde turns it into a hybrid power system that replenishes itself — so a three-day outage looks no different than a three-hour one."

WHAT REDDE IS

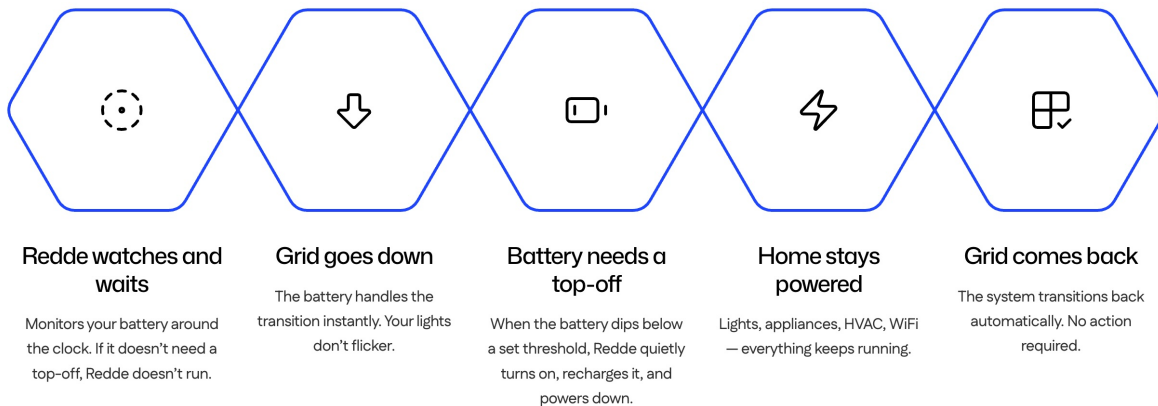
Redde is a fuel-flexible, wall-mounted fuel cell that closes exactly that gap. It runs on the natural gas or propane a home already has, watches the battery's charge level, and automatically tops it up — turning a fixed backup window into indefinite runtime, without the noise, fumes, or upkeep of a standby generator.

HOW IT WORKS

Meet Redde

Redde runs in the background until the moment it's needed — then it takes over the one job a battery can't do on its own: recharging itself.

How it works



WHY THIS WORKS

Most fuel cells run continuously, because starting and stopping damages the ceramic stack inside. Redde is built differently: over 25 years of R&D and 45+ patents went into a fuel cell that can cold-start in under an hour and cycles reliably without degrading — the reason it provides true backup power, unlike a power source that never turns off.

THE COMPARISON

How Redde stacks up against a standby generator

When a home already owns a battery, adding Redde is the difference between a few hours of backup and indefinite runtime — without the noise, noxious fumes, or annual service calls a standby generator requires.

Cleaner and quieter than a traditional standby generator

	 Redde + Battery	Standby Generators
Runtime lasts weeks, not days*	~50 days	~6 days
Whisper-quiet, under 42 dBA		
No dedicated yard space needed		
No routine maintenance needed		
No engine exhaust, clean air		
Ten-year warranty, standard		

**on a 250-gallon propane tank; unlimited runtime on natural gas*

Reliable. Whisper-quiet. Barely there.

- 01 Limitless runtime, not just backup hours** Your battery covers the first hours instantly. Redde tops it back off automatically, for as long as the outage lasts — turning a fixed backup window into indefinite runtime.
- 02 Power that lives on the wall, not in your yard** No pad-mounted generator taking up the yard, no engine exhaust, no noise complaints from next door. Redde mounts flush to an exterior wall and runs automatically, out of sight until it's needed.
- 03 Whole-home normal, not triage mode** HVAC, the refrigerator, the home office, Wi-Fi — all of it, running like nothing happened. No flipping breakers to decide which circuits get to stay on.
- 04 Costs on par with a standby generator** For homes that already own a battery, Redde's installed cost lines up with a standby generator's. Weigh in maintenance and fuel use over time, and Redde comes out ahead.



The Redde unit — wall-mounted, whisper-quiet, and out of sight until it's needed.

42 dBA

Fridge-quiet operation

10 yr

Standard warranty - no maintenance required after

WHAT HOMEOWNERS TELL US

"Redde keeps my battery charged, so my home keeps running — no matter how long the outage lasts."

— Redde homeowner

"I've got a fuel cell backing up my Tesla Powerwall now. My neighbors ask about it every time the power blinks."

— Redde homeowner

HOMEOWNER STORY

Peace of mind through every White Mountains storm

Trevor Hardy · Residential · Rural New Hampshire

Trevor's family home sits in the White Mountains region of northern New Hampshire, where long-duration winter storms are a fact of life. The home already had solar panels and Tesla Powerwall batteries — but not enough storage to keep the house safe and comfortable, and the wifi running, through the multi-day outages common in the area.

Adding two Redde units to the existing battery system closed that gap. Trevor checks operation remotely through the app and knows the house stays safe and connected, no matter how long the storm lasts.



Two Redde units, wall-mounted alongside Trevor's existing solar and battery system in the White Mountains.

"I love my Redde fuel cell generators. They run off of the propane that I already have delivered to my house, and they only use a tiny amount of fuel to keep my battery system charged when the solar panels aren't producing enough electricity. I electrified my house to reduce emissions so I didn't want a traditional noisy, dirty generator, and now I have always-ready, quiet, clean power to run the house. And I don't need to pay for annual maintenance!"

2

Redde units installed

~50 days

Runtime on one propane tank

— Trevor Hardy, Homeowner

System Profile:

BATTERY Tesla Powerwall 2 (3x)

SOLAR Enphase (14kW)

FUEL CELL Redde R1 (2x)



Redde

Redde is redefining energy readiness. Our fuel-flexible, wall-mounted system continuously recharges the batteries homes already have, turning a fixed backup window into indefinite runtime — quietly, automatically, and without the noise, fumes, or upkeep of a standby generator. Redde pairs with all major battery platforms, so any home with a battery can be ready for an outage of any duration.

reddepower.com

ALWAYS READY.