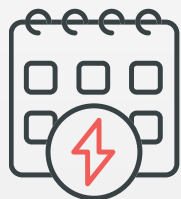


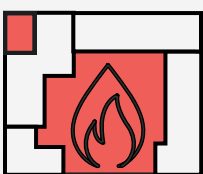
Proven Benefits of Active Grid Response.

Empirical evaluation of AGR’s impact on wildfire risk and reliability

A Rigorous Longitudinal Study



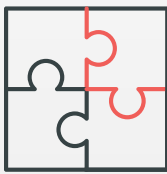
4 Years of Data
(2022-2025)



High-Risk
Grid Circuits



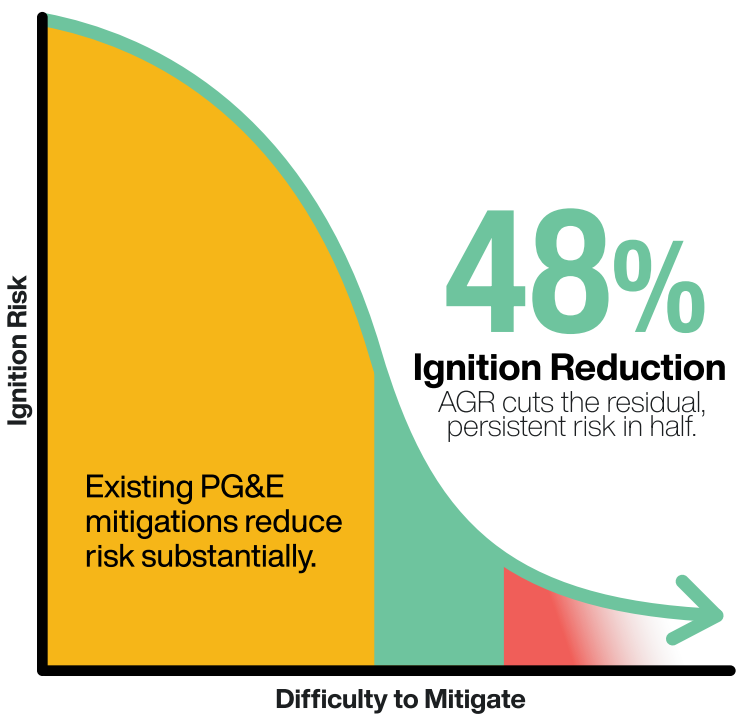
Differences-in-
Differences Research
Design



1:3 Matched
Control Group

We compared **circuit-segment reliability** and **circuit-level ignition** outcomes of Gridscope-monitored areas and three matched-control areas side-by-side for 4 years. During times of Fast Trip enablement, Gridscope-monitored areas were able to catch additional **high impedance faults** and **hazards** and were able to **reduce customer outage times**.

Key Outcomes



16%
Median CAIDI
Reduction

Gridware installations achieve clear and **material reductions** in **powerline ignitions and outage restoration time**, demonstrating both **wildfire risk reduction** and **customer reliability** improvement.

What Sets Active Grid Response Apart



Early
Detection

Distributed monitoring detects and localizes ignition risks and ignitions.



Faster
Response

Proactive alerts drive prevention and rapid response.



Wildfire Risk
Reduction

AGR avoids ignitions and alerts when they do occur, enabling rapid response and decreased wildfire spread.



Improved
Reliability

Outage time reduced median by 16% and by 24% in high-outage grid zones.

Benefit-Cost Analysis

Active Grid Response efficacy was plugged into wildfire mitigation scenarios testing deployments on 80 of PG&E’s riskiest circuits.

Benefit-cost ratios were assessed inclusive of wildfire structure damages, reliability impacts to customers, and full program costs.

Covered Conductor +
Fast Trip + PSPS + AGR

2.6^{BCR}

AGR Ratio: 6.5

Minimal Residual Risk

75 of 80 Circuits ≥1

Fast Trip + PSPS
+ AGR

3.3^{BCR}

77 of 80 Circuits ≥1

AGR Ratio: 13.4

Highest Value

We recommend reading the full [Quantifying the Economic Value of Active Grid Response in High Fire-Risk Areas*](#) study for context and additional BCA scenarios.

*Values presented are averages or medians, please see the full paper here for important caveats and ranges.