

## **PG&E DRET Project: Develop a Residential ADR Incentive for EV Charging Controls**

### **Overview**

In 2019, the ADR Program conducted a Collaborative Stakeholder Process to identify and vet emerging residential ADR technologies for potential inclusion in the program. This process found that EV charging control (such as onsite charging station, or manufacturers telematic) were an excellent fit for the ADR program, based on the rigorous criteria and stakeholder process employed in the study. However, surveys with the vendors and their respective control technologies indicate that they were not ready for full-scale rollouts at the time for various reasons.

In order to develop a residential ADR incentive for EV charging controls, this study will test EV charging controls in a field setting and measure the DR impact of such technologies. The study will:

1. Identify relevant eligibility criteria for EV charging controls' participation in the field test, and more broadly, in PG&E DR programs.
2. Identify EV charging controls and assess their DR impact in a field test.
3. Characterize, to the extent possible, the average load management potential for identified residential EVs in PG&E territory:
  - a. Characterize load management groups of PG&E EV owners based on their EV's, TOU rates, and charging habits.
  - b. Document existing DR incentives available through PG&E programs (e.g., Smart Rate, Demand Response Auction Mechanism (DRAM) and Capacity Bidding Program (CBP)) to inform how the residential ADR program fits into the DR landscape and how ADR incentives for EV ADR controls should apply to these different DR programs.
4. Assess potential ADR incentive designs and amounts for residential EV charging control technologies.

### **Collaboration**

The DRET team will collaborate with the internal EV team to implement this study. PG&E is planning to hire the same consultant that lead the ADR Collaborative Stakeholder Process to manage this DRET study.

### **Results/Status**

The DRET team scoped this study in the third quarter of 2020, and PG&E started the contracting process with the consultant in September 2020.

### **Next Steps**

This assessment is scheduled to start on November 2020 and will last twelve months. PG&E will provide updates on the bi-annual DRET report in the future.