

Agricultural Irrigation Pumps



Incentives for pump controls and remote equipment monitoring solutions

Growers in California can potentially offset installation costs for pump controls and remote equipment monitoring solutions by applying for Pacific Gas and Electric Company's (PG&E) Automated Demand Response (ADR) program incentives. Additionally, growers can offset installation costs for pump flow meters, pressure sensors on ADR participating pumps, and soil/plant moisture monitoring solutions in fields irrigated by these pumps.

PG&E's ADR program offers up to \$200 per kW of calculated load reduction in exchange for a commitment to demand response (DR) program and event participation.

In a DR event, PG&E calls on participating growers to temporarily turn down or turn off irrigation pumps. In return, customers may earn incentives each time they participate in a DR event.

By participating in a DR program, you help keep our state's energy supply clean, reliable and affordable, while retaining control over your pumps.

RECEIVE TECHNOLOGY
INCENTIVES UP TO

\$200/kW

of calculated DR load reduction



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a Better California



Eligibility and commitments

- In order to be eligible for ADR incentives, customers must have:
 - At least one irrigation pump equipped with a PG&E interval meter
 - At least one year of billing history
- Customers commit to:
 - Participate in a qualifying DR program for at least three years, directly with PG&E or through an aggregator. A current list of qualifying DR programs is available at: pge-adr.com/act
 - Participate in DR events, usually through automatic, temporary and safe reduction or shut down of irrigation pumps.

Growers can receive:

- **One-time incentives***** to install equipment monitoring solutions and ADR enabled controls for pumps. These solutions can give growers the ability to remotely:
 - Monitor on/off status of pumps, pump flow, and pump pressure year-round
 - Turn off pumps year-round
 - Monitor soil/plant moisture in fields irrigated by participating pumps
- **Ongoing payments** for actively participating in a qualifying DR program
- **Convenience and control** over DR event participation through:
 - Advance notification of upcoming events via text, email or phone call
 - Automated event participation
 - Ability to override pump shutdown during events
- **Technical and administrative support** including incentive estimation, application processing, DR program enrollment process, and ongoing connectivity support

Incentives and ongoing payments:

- One-time incentive up to \$200/kW of calculated DR load reduction, covering up to 75 percent of ADR project costs***
- Eligible project costs include: hardware for pump control, pump flow meters, pump pressure sensors, hardware for soil/plant moisture monitoring, telemetry hardware, labor for installation and commissioning, telecommunication fees for three years, and project management costs
- Ongoing payment amount depends on the selected DR program

Incentive and payment example

NOTE: Actual incentive and payment amounts will vary depending on individual pump specs and/or aggregator contract.**

Grower applies for ADR incentives on a portfolio of:

- Five (5) participating pumps, 250 hp each*
- 300kW of total calculated DR load reduction

Grower might receive:***

- A one-time incentive of \$60,000 for ADR project costs, awarded in two-installments and
- Ongoing payments or bill credits through participation in a qualifying DR program, such as:
 - Between \$15,000/year–\$30,000/year in bill credits with a PG&E DR program like Peak Day Pricing (PDP) or
 - \$10,000/year in cash when participating through an aggregator in the Capacity Bidding Program (CBP).

Next steps

To learn more about the Automated Demand Response program, call 1-855-866-2205 or visit pge-adr.com.

*1 kW = 1.34 hp or 1 hp = 0.75 kW

**The estimate of calculated DR load reduction is based on actual pump use between May 1 and October 31 in the DR program time window.

The lower limit for PDP estimate assumes all pumps are switched from Ag-4C to Ag-4C rate with PDP option.

The upper limit for PDP estimate assumes: i) all pumps are switched from Ag-5C to Ag-5C rate with PDP option and ii) all pumps have 0 kW capacity reservation level.

Both lower and upper limits for PDP estimate assume pumps are not used during DR events when super-peak charge applies.

The CBP estimate assumes equal split of DR revenue between an aggregator and a grower.

***Incentives will be awarded on a 60/40 basis in two installments. 60 percent of the one-time incentive is paid following project inspection. Up to 40 percent of the remaining incentive is paid upon verification of DR events performance after 12-months of participation.