

Flexible Demand Appliance Standards (FDAS) Pool Controls - Fact Sheet

The Flexible Demand Appliance Standards (FDAS) for Pool Controls

will bring utility bill savings to consumers and reduce emissions electricity from providing generation by а default maintenance pool schedule. Major pool loads such as pumping and heating will be shifted to during the day when there is plentiful and cheap renewable electricity. The pool controls FDAS are the first standards under the new provided authority by the California Legislature for the California Energy Commission implement load-(CEC) to shifting technologies that are capable of shifting or curtailing appliance operations to reduce greenhouse emissions gas (GHG) and help consumers save on energy bills (SB 49, Skinner). Starting in September 2025, all pool control devices sold in California must meet the FDAS standards. The standards will encourage off-peak use of electricity to save pool owners money and help California reach its decarbonization goals.

\$1,131

Consumer savings on utility bills over 10 years.

Avoids 33,000 CO₂ metric tons.

A single mature tree takes in about 50 pounds of carbon dioxide (CO_2) per year. The tenth year of the regulation can avoid approximately the amount of carbon dioxide that will be absorbed by 17 million mature trees.

\$113

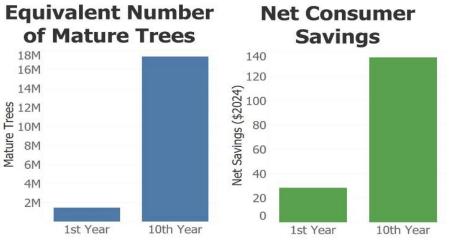
Estimated consumer savings per year.

Pool Control Equipment



First and Tenth Year Impacts

The first-year net consumer utility bill savings from the pool control standard is \$27 after factoring in the incremental cost to create flexible demand features. By the tenth year, net savings reaches \$130. Resulting GHG reductions are equivalent to there being an additional 1.5 million mature trees to absorb CO_2 in the first year, and 17 million mature trees in the tenth year of the appliance standard.



Additional Resources

- Senate Bill 49 (Skinner, 2019)
- <u>Senate Bill 846 (Dodd, 2022)</u>

For Questions about Pool Controls:

Please email
FlexDemandStandards@e
nergy.ca.gov or call the
California Energy
Commission Appliance
Standards Call Center at
(888) 838-1467 or (916)
651-7100.

EMAIL FDAS AT:

FlexDemandStandards@energy.ca.gov

FOR MORE INFORMATION, VISIT:

FDAS Webpage:

https://www.energy.ca.gov/proceedin g/pool-controls

What is a Pool Control?

 A pool control is any equipment or system capable of coordinating the operation of a pool filter pump, as well as other pool equipment. This may include devices such as an electric pool heater, pressure cleaner booster pump, or chlorinator by a pool filter pump.

What Products are In-Scope and Out-of-Scope?

- **In-Scope**: A pool timer, pool pumps and heater switches, direct load control switches, or any component or group of components including software that has the capability to schedule the operation or control the start and stop times of a pool filter pump.
- **Out-of-Scope**: Controls marketed exclusively for use as a control for pool filter pumps with a rated hydraulic horsepower (hhp) greater than 2.5 hhp, safety interlock or shutoff controls, controls integral to a single pool filter pump, or pump motor that can control only that pump or motor.

Do pool controls need to be certified to the California Energy Commission?

 Yes, all pool controls manufactured on or after September 29, 2025, that are sold or offered for sale, rented, imported, distributed, or leased for use in California are to be certified to the CEC using the Flexible Appliance Database (FAD). For questions regarding certification, email ApplianceEnforcement@energy.ca.gov.

Relevant Code Sections California Code of Regulations, Title 20: Division 2, Chapter 4.1 Flexible Demand

- 1690 Scope
- 1690.1 Rules of Construction
- 1691 Definitions
- 1692 General Requirements
- 1693 Appliance Specific Standards & Requirements
- 1694 Customer and Consumer Consent
- 1695 Certification Requirements
- 1696 Data Submittal Requirements
- 1697 Compliance, Enforcement and Administrative
- Civil Penalties