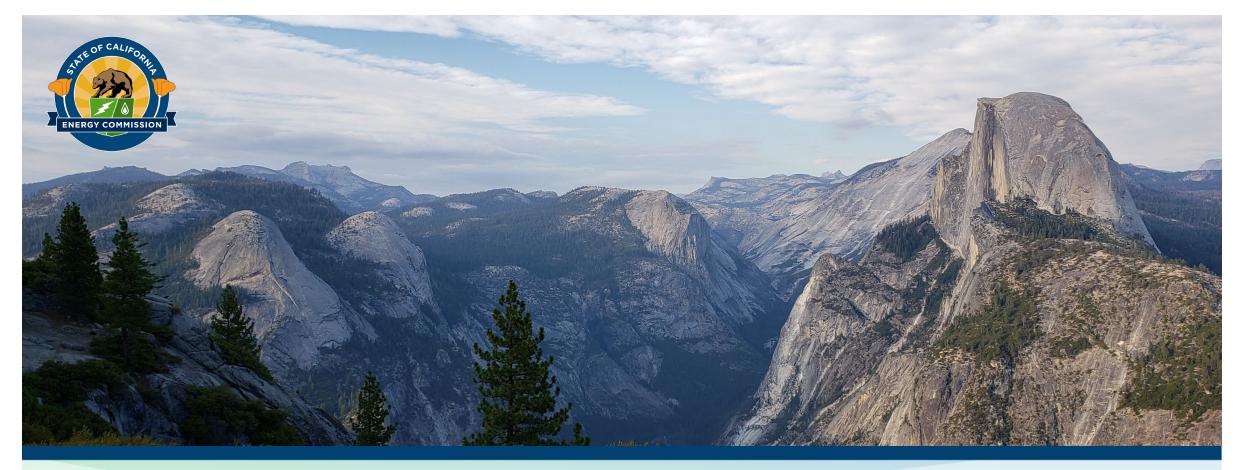
DOCKETED	
Docket Number:	21-IEPR-06
Project Title:	Building Decarbonization and Energy Efficiency
TN #:	239971
Document Title:	Presentation - Load Flexibility Programs and Policies
Description:	S2.3B Gabriel Taylor, CEC
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	10/4/2021 3:31:34 PM
Docketed Date:	10/4/2021



### **California Energy Commission**

**Load Flexibility Programs and Policies** 

Gabriel D. Taylor, P.E. Senior Engineer

## **Building Energy Efficiency Standards**

#### 2019 Standards

- Solar or Solar Readiness
- Demand Management
- Heat Pump Water Heaters Options

#### 2022 Standards

- Electric Readiness
- Solar and Battery Standards
- Additional Electric Space & Water Heating Options
- Controlled Receptacles

## **Appliance Efficiency Standards**

- Central Air Conditioners
- Central Heat Pumps
- Computers
- Cooking and Washing Products
- Electronics
- Fans and Dehumidifiers
- Heating Products
- Landscape Irrigation Equipment

- Lighting Products
- Motor Products
- Noncentral Air Conditioners and Heat Pumps
- Plumbing Products
- Pool Products
- Refrigeration Products
- Transformer Products
- Water Heater Products



# Flexible Demand Appliance Standards (FDAS)

- Initial Staff Workshop in December 2020
- Request for Information (RFI) due date extended to Monday, November 1

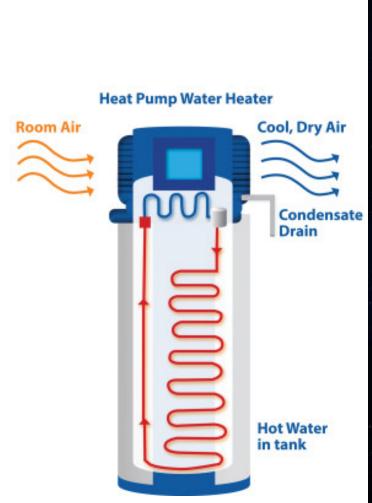
- Phase 1: Thermostats,
  Pool Pump Controls,
  Dishwashers, and Electric
  Clothes Dryers
- Phase 2: Electric Water Heaters, and Behind the Meter Batteries
- Phase 3: Electric Vehicle Supply Equipment (EVSE)



### **Load Management Standards**

...a program of electrical load management for each utility...

- Energy Storage
- Automation
- Rates (recommendations)

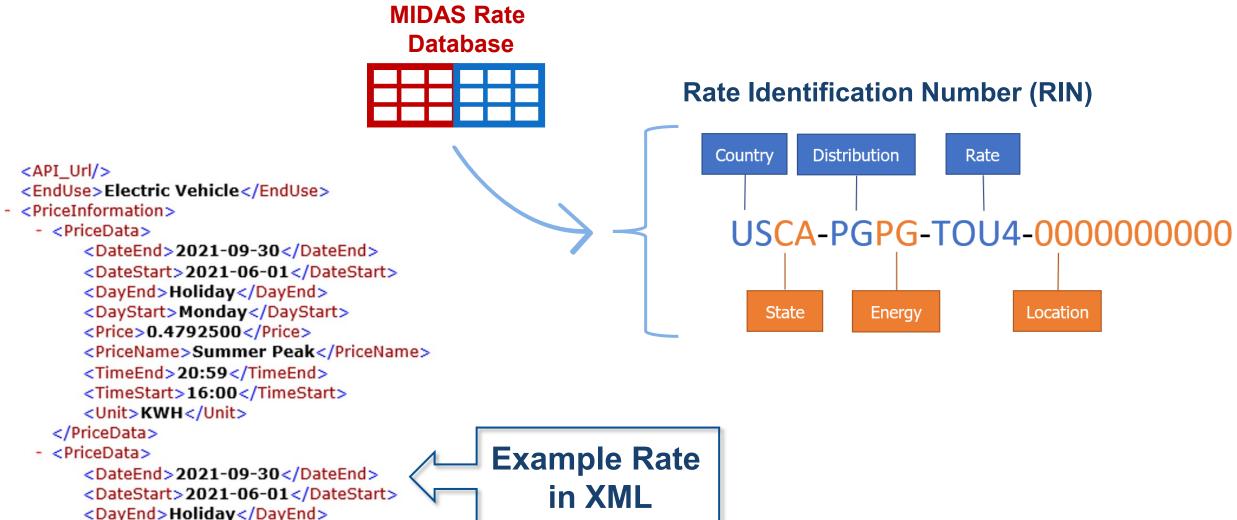






<DayStart>Monday</DayStart>

# Market Informed Demand Automation Server (MIDAS)





### **Vehicle-Grid Integration (VGI)**

- California Vehicle-Grid Integration Roadmap
- Grid Impact Analysis Modeling
- Electric Vehicle Supply Equipment (EVSE) Deployment and Grid Evaluation (EDGE) Tool
- Megawatt Charging System
- Research funding consultation
- Cross-divisional and interagency coordination





### CalFlexHub









The California Load Flexibility Research and Development Hub (CalFlexHub) aims to advance the capability of buildings to provide flexible electricity load.

- Identify, evaluate, develop, and demonstrate load-flexible precommercial technologies
- Standardize the signals used to communicate dynamic price and GHG information
- Load Shaping focus, but will also evaluate Supply Side



