

## **Flexible Demand Response Collaborative**

### **1. Overview**

This project is designed to advance Flexible Demand Response by modeling and demonstrating its value when employed as a balancing resource to support integration of wind, solar and other variable supply.

Project structure includes a collaborative effort to demonstrate effective and sustainable demand flexibility from large pumps and other loads. A core focus is on water or wastewater facilities to engage large pumping loads as flexibility resources and to identify viable load shift strategies.

The results will inform demand response models for operations and planning tools so Flexible Demand Response can be scheduled and dispatched.

Potential research objectives include:

Demonstrating the capability and value of large pumping loads to flex usage.

Characterizing and modeling the capability and availability of large pumps and other loads for better integration in power system operations.

Fostering industry collaboration to explore program alternatives and share best practices in sustainability engaging Flexible Demand Response to support system flexibility needs.

### **2. Collaboration**

The progress and results will be shared with other CA IOUs ET-DR Leads.

### **3. Status**

The contract with the vendor was executed in Q4 2023. The Flexible Demand Response model and simulation are under development.

### **4. Next Steps**

The project is expected to continue through Q1 2026.