



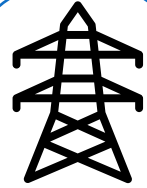
Item 12: Build Momentum, dba Momentum

April 10, 2025 Business Meeting

Matt Fung
Energy Research and Development Division
Industry & Carbon Management Branch



Benefits to Californians



Reliability



Affordability



Sustainability



Solicitation Overview

- Demonstrate and deploy demand flexibility technologies for industrial, agriculture, and water (IAW)
- Technology commercialization
- Enroll in demand response or pricing program
- **Project Funding:**
 - **Build Momentum, Inc.**
 - \$17,000,000 in EPIC funds
 - \$10,602,855 initial phase
 - \$5,241,093 in match funds

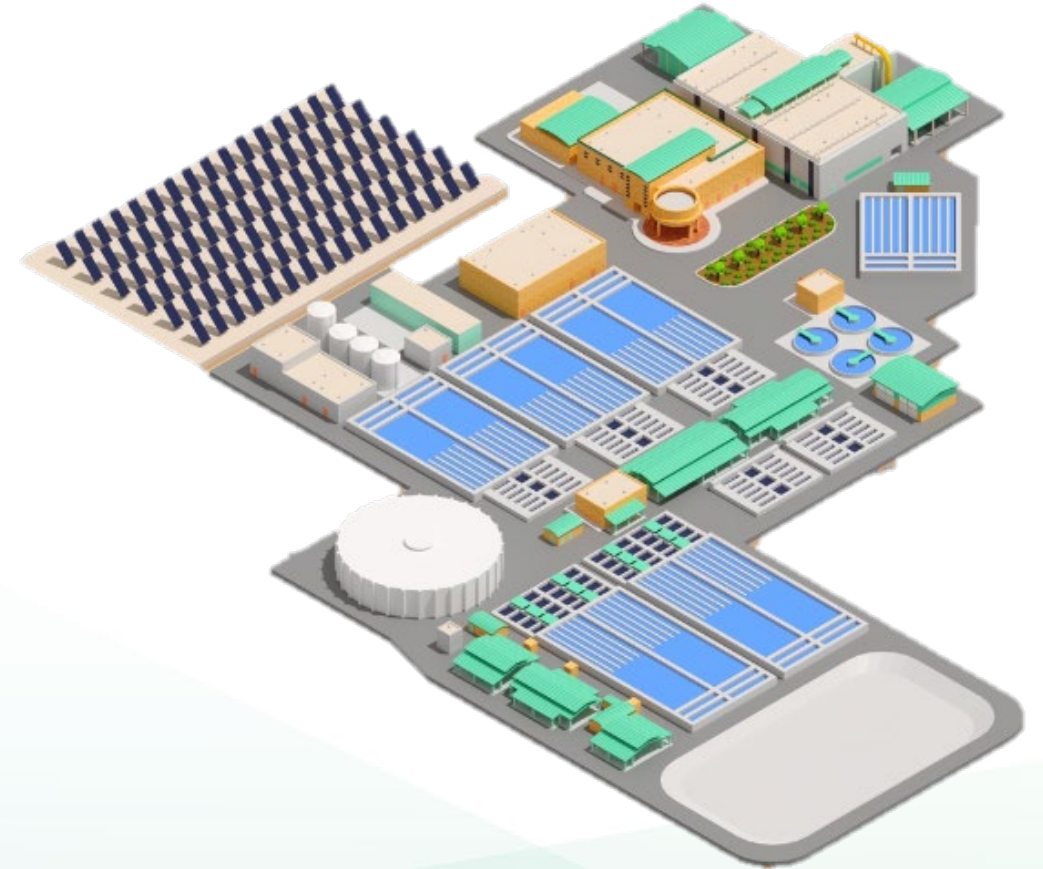


Source: City of Santa Barbara website



Development of Tariffs to Incentivize Load Shifting in the Water Sector

- Lead: UC Davis
- Location: Irwindale
- Project Focus:
 - Alternative rate structures that incentivize electric load shift
 - Leverage water systems to reduce renewable curtailment
 - Shift water consumption to periods of renewable overgeneration



Source: Metro Water District of Southern California website



Demand Flexibility Tools for Water Utilities

- Lead: Stanford University
- Location: Charles E. Meyer Desalination Plant in Santa Barbara
- Project Focus:
 - Demand flexibility digital tools for water treatment and supply facilities
 - Pilot demonstration
 - Deliver an estimated 17% bill savings from partial flexible load summer operation



Source: City of Santa Barbara website



Flexible Load Controls at an All-Electric Manufacturing Facility

- Lead: Lawrence Berkeley National Laboratory
- Location: Siemens in Pomona
- Project Focus:
 - Load management and asset optimization control
 - Market readiness
 - Deliver an estimated 30% reduction in peak power costs



Source: Siemens website



Enhanced Demand Flexibility for Cold Storage

- Lead: UC Davis
- Location: Innovative Cold in San Diego
- Project Focus:
 - Optimize system load for blast freezing and storage
 - Validate controls for refrigeration load management
 - Deliver 5-13% estimated reduction in annual energy costs



Source: CREE Lighting website



Market Potential

- According to the California Demand Response Potential Study Phase 4, California IAW market load shift potential in 2050 is 5 GWh.
- If realized, contribute about 17% of total CA load shift potential.



Staff Recommendation

- Adopt staff's recommendation that these actions are exempt from CEQA
- Approve the IAW FlexHub grant agreement (EPC-24-045)