Exhibit to Agenda Item #2 & 3

2. Discuss ratification of the submittal of SMUD's **Connected Clean PowerCity** project application to the **Department of Energy (DOE)** for the **Grid Resilience and Innovation Partnerships (GRIP)** grant and authorize the Chief Executive Officer and General Manager to negotiate and execute in the name of Sacramento Municipal Utility District a **GRIP** grant recipient contract with **DOE** as well as all grant documents, including, but not limited to, applications, agreements, amendments and requests for payment, necessary to facilitate grant participation.

3. Authorize submission of a grant application for a **Department of Forestry and Fire Protection (CAL FIRE) California Climate Investments Wildfire Prevention Grants Program (Grant)**, and authorize the CEO and GM, or his delegate, to negotiate and execute in the name of Sacramento Municipal Utility District a **CAL FIRE Grant** recipient contract as well as all **Grant** documents, including, but not limited to, applications, agreements, amendments and requests for payment, necessary to facilitate Grant participation.
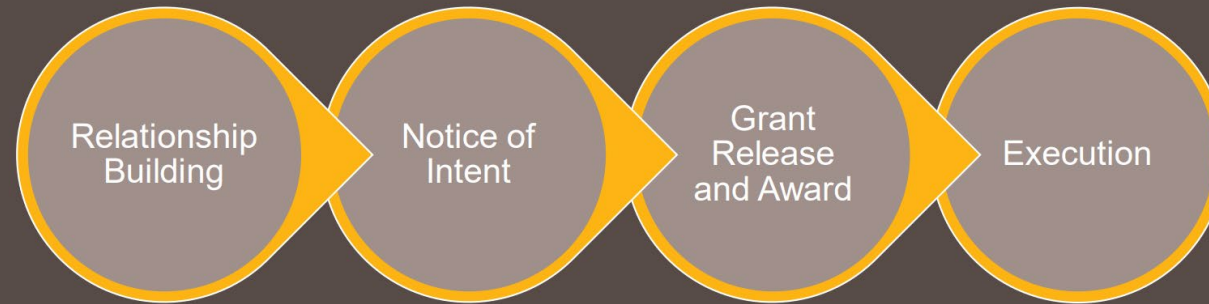
Board Finance & Audit Committee and Special SMUD Board of Directors Meeting

Wednesday, December 13, 2023, scheduled to begin at 6:00 p.m.

SMUD Headquarters Building, Auditorium

Powering forward.
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Grant Process Refresh

Funding Agency Background

Relationship Building → Notice of Intent → Grant Release and Award → Execution

June 6, 2023   3   Board Strategic Development Committee and Special SMUD Board of Directors Meeting

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Connected Clean PowerCity
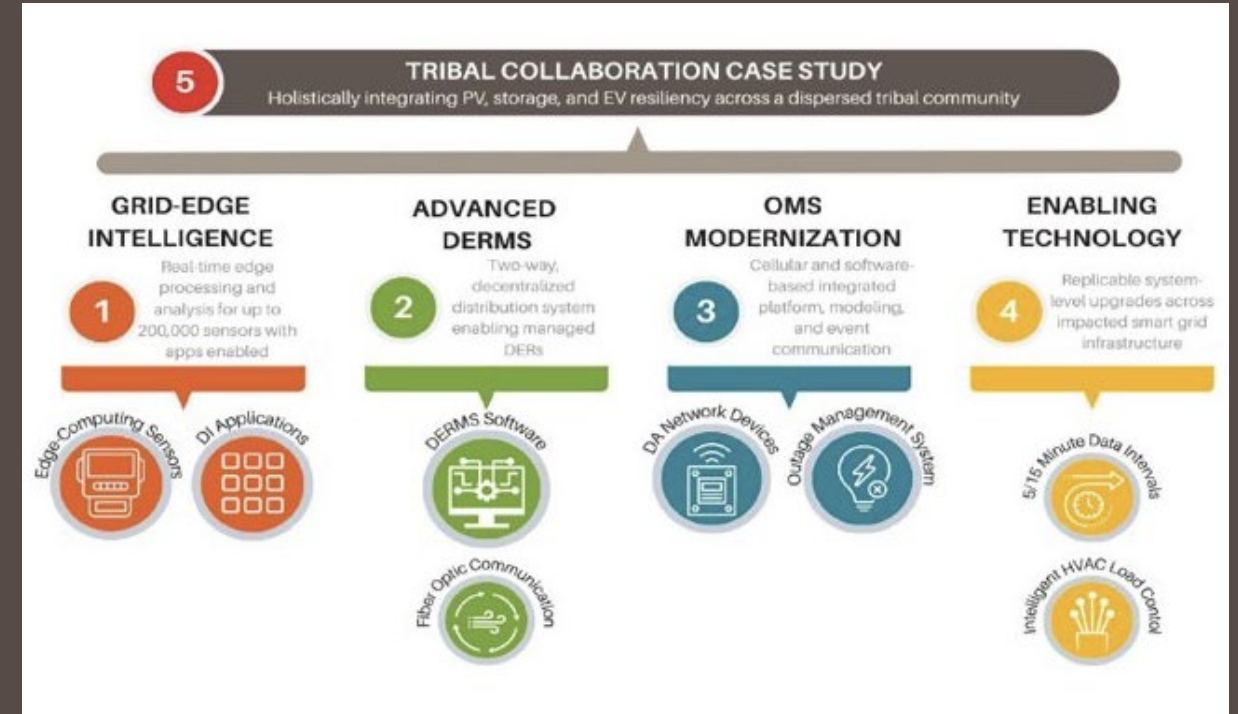
SMUD

Connected Clean PowerCity

In support of SMUD's 2030 Zero Carbon Plan, SMUD submitted a grant application to the DOE Grid Resilience and Innovation Partnerships (GRIP) Program on March 17, 2023, and was selected on October 17, 2023, to receive a $50 million award for our Connected Clean PowerCity project.

- Connected CleanPower City's next-generation smart grid will address the regional need for resilient, reliable grid service that is hardened for and supports the clean energy transition.

- Implement the base elements and critical infrastructure needed to for a complete next-generation smart grid.

- This intelligent ecosystem will establish a template for effective grid management that can be replicated at small to large utilities.

- The Project's community centered strategy will equitably distribute Project benefits with at least 40% implementation in disadvantaged communities.

Projects at a Glance

Grid-Edge Intelligence	Deploy up to 200,000 edge computing sensors with measurement capabilities and up to eight (8) DI applications with supporting back-office infrastructure to enable DI at the grid edge.
Advanced DERMS	Deploy advanced DERMS features with centralized artificial intelligence and integrate DERs to support the transition from a one-way centralized distribution system to a two-way decentralized system that reinforces grid resiliency. Deploy up to 100 miles of fiber optic cable to facilitate deployment and improve DERMS situational awareness, control, and data quality.
OMS Modernization	Implement a new OMS with advanced features as the next step towards an integrated Advanced Distribution Management platform to enable operational efficiencies and better customer and community experience through improved communication, grid automation, and modernization.
Enabling Technology and Systems	Deploy up to 22,500 intelligent 2-way load control switches/sensors to cycle air conditioning load. Deliver 5/5-minute interval data availability for commercial/residential customers.
Tribal Collaboration Case Study	Conduct Tribal assessment of building electrification opportunities (PV, battery storage, heat pump water heaters, and EVSEs). Conduct education and marketing campaigns for up to 70 Tribal members who own their homes. Deploy electrification technologies and edge computing sensors at identified locations and integrate with utility-facing smart grid components included in project.

CAL FIRE's Wildfire Prevention Grants Program

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CAL FIRE's Wildfire Prevention Grants Program

SMUD is seeking to submit a grant application to the Department of Forestry and Fire (CAL FIRE) Hazardous Wildfire Mitigation Project on January 10, 2024. The grant award amount is $3 million. Board authorization required for application.

- Mitigate wildfire risks in the Eldorado National Forest where SMUD owns numerous facilities associated with the Upper American River Project (UARP).

- The grant will provide funding for wildfire prevention projects and activities in and near the UARP facilities.

- CAL FIRE's Wildfire Prevention Grants Program will enable SMUD to perform vegetation clearance projects in critical locations to reduce the wildfire intensity and rate of spread and reduce impact on surrounding communities.

Requested SMUD Board Action

- Ratify the submittal of SMUD's Connected Clean PowerCity project application to the Department of Energy (DOE) for the Grid Resilience and Innovation Partnerships (GRIP) grant and authorize the CEO and GM, or his delegate, to negotiate and execute a grant recipient contract with the DOE, as well as grant partner agreements necessary to facilitate grant participation.

- Approval of grant application per the requirement of the Department of Forestry and Fire Protection (CAL FIRE) in relation to their Wildfire Prevention (WP) Grants Program.

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