Exhibit to Agenda Item #1

Brief the Board on current grant strategy and recent grant activity.

Board Strategic Development Committee and Special SMUD Board of Directors Meeting

Tuesday, June 6, 2023, scheduled to begin at 6:00 p.m.

SMUD Headquarters Building, Auditorium
Agenda

• Funding Agency Background

• Grant Strategy Framework

• Recent Activity
Funding Agency Background

- Relationship Building
- Notice of Intent
- Grant Release and Award
- Execution
Grant Strategy – Zero Carbon Plan

- Natural gas generation repurposing
  - Retire 2 power plants and re-tool fleet

- Proven clean tech
  - 90% reduction of greenhouse gas emissions

- New tech & business models
  - Pilot & scale new projects & programs

- Financial impact & options
  - Rate impacts limited to rate of inflation
Grant Strategy – Relationship Building

**Events:** Speaking engagements; conferences; panels; seminars; listening sessions

**Outreach:** Direct communications; updates/follow-ups; info-sharing; commenting; responding

**Relationship Building & Strategic Influence**

**Homework:** Project ideation & conception; internal vetting; prioritization; research; strategy

**Funding Opportunity:** Result in grants cycle; not endpoint; signals pre-capture done right; "opportunity" to execute successfully

**Homework:** Project ideation & conception; internal vetting; prioritization; research; strategy

**Funding Opportunity:** Result in grants cycle; not endpoint; signals pre-capture done right; "opportunity" to execute successfully
Grant Strategy – Focus Areas

8 Main Focus Areas
• Clean Fuels
• Carbon Capture
• Long Duration Energy Storage
• Building Electrification
• Transportation Electrification
• Load Flexibility
• Under Resourced Communities
• Climate Emergency Prevention
Grant Strategy – Opportunity Readiness

Project Concepts
• Priority projects organized by focus area and aligned to our Clean Energy Vision

Regional Collaboration and Technology Partners
• Regional and technology partners aligned before new grant opportunities become available

Strategic Funding Plan
• We empower a regional voice to align federal & state funding opportunities to SMUD’s Clean Energy Vision
Recent Activity - Overview

- Grant opportunities since February 2022
  - Federal Grants Pursued: 12
  - State Grants Pursued: 11

- 12 Grant Projects Currently Being Delivered
  - Over $42M of projects directly enabled by grants

- 15 Grant applications awaiting announcement of winner
  - Over $90M of grant funds requested
## Recent Activity - Highlights

### Carbon Capture Demonstration Projects Program
- **Application:** Sutter Energy Center Carbon Capture and Sequestration Project (CCS Project)
- **Requested Funds:** $270M
- **Agency:** Department of Energy
- **Status:** CalPine submitted application. SMUD; Approval received to execute a Memorandum of Agreement

### Grid Resilience and Innovation Partnerships (GRIP) Program
- **Application:** Connected Clean PowerCity
- **Requested Funds:** $50M
- **Agency:** Department of Energy
- **Status:** Application submitted. Awaiting announcement of winners. Expected Fall 2023.

### Community Economic Resilience Fund (CERF)
- **Application:** Valley Vision
- **Won:** $5M (Funding to support Community Benefit Organizations)
- **Agency:** Governors Office of Planning and Research
- **Status:** Building launch and oversite committees to start the planning process

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**June 6, 2023**

Board Strategic Development Committee and Special SMUD Board of Directors Meeting
Recent Activity - Highlights

Vehicle Technology Office: Community-Driven Electric Vehicle Charging Deployment in Underserved Communities
- Application: EVEN-UP
- Won: $1.2M (Funding to support Community Benefit Organizations)
- Agency: Department of Energy
- Status: Awarded May 2023

Vehicle Technology Office: Demonstration and Deployment of Clean Transportation Projects
- Application: V4America
- Won: ~$1.1M (~$100k to SMUD, ~$1M to project costs)
- Agency: Department of Energy
- Status: Awarded May 2023

Charge Ready Communities (REACH): Vehicle Charging for Multi-Family Housing
- Application: ChargeReady Community
- Won: $2.2M (~$2.2M to SMUD)
- Agency: California Energy Commission
- Status: Project in implementation
## Recent Activity - Highlights

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Fast and Available Charging for All Californians (FAST)</strong></td>
<td>Application: SMUD DC fast charger upgrade</td>
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<td>Request: $2M-$3M</td>
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<td>Agency: California Energy Commission</td>
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<td>Status: Application in development</td>
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<td><strong>Responsive, Easy Charging Products with Dynamic Signals (REDWDS)</strong></td>
<td>Application: Vehicle to grid managed charging</td>
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<td>Request: $2-3M</td>
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<td>Agency: California Energy Commission</td>
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<tr>
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<td>Status: Application in development</td>
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<td><strong>Core Laboratory Infrastructure for Market Readiness (CLIMR)</strong></td>
<td>Application: Commercialize inverter sizing software</td>
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<td>Request: $750K</td>
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<td>Agency: DOE Technology Commercialization Fund</td>
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<td>Status: Awaiting notification of award</td>
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Recent Activity - Highlights

FEMA Public Assistance for Winter Storms 2023 (DR 4683)
- Application: California Disaster Assistance
- Estimated Claim Benefit: $TBD
- Agency: Federal Emergency Management Administration
- Status: Submitted damage inventory

Apprenticeship Innovation Funding
- Application: SMUD Joint Apprenticeship Committee
- Requested: ~$370K (Annual Recurrence)
- Agency: California Department of Industrial Relations
- Status: Submitted application for reimbursement

FEMA Building Resilient Infrastructure and Communities (BRIC)
- Application: 2020 SMUD Microgrid Scoping Study
- Won: $82K
- Agency: Federal Emergency Management Administration
- Status: Project in execution
Recent Activity – Lessons Learned

Advanced Transportation Technologies and Innovative Mobility Deployment (ATTAIN)
- Application: Advanced Electric Vehicle Grid Integration
- Requested: $7M
- Agency: Department of Transportation
- Status: Department of Transportation awarded funds to state agencies

Long Duration Energy Storage Demonstration Funding Opportunity
- Application: 4MW/40MWh demonstration of non-Li long duration energy storage
- Requested: N/A
- Agency: Department of Energy
- Status: Elected non-grant funding alternative (Inflation Reduction Act Benefit)

Convenient, High-Visibility, Low-Cost Level 2 Charging
- Application: 1,500 Level 2 charging handles in downtown Sacramento
- Requested: N/A
- Agency: California Energy Commission
- Status: Collaboration cohort declined to submit application
Thank you!