# Exhibit to Agenda Item #la

2025 Proposed Energy Delivery & Operations Budget.

Board Finance & Audit Committee and Special SMUD Board of Directors Meeting Thursday, November 7, 2024, scheduled to begin at 6:00 p.m. SMUD Headquarters Building, Auditorium





# **Energy Delivery & Operations** 2025 Proposed Budget & Initiatives

#### Frankie McDermott

**Chief Operating Officer** 



# **Energy Delivery & Operations**

Corporate	Zero Carbon Energy Solutions	Customer & Community Services	Energy Delivery & Operations	Information Technology	Workforce, Diversity & Enterprise Partnerships
Governance	Power Generation	Customer Success	Transmission Planning & Operations	Customer & Grid Operations Technology Center	People Services & Strategies
Finance & Strategy	Advanced Energy Solutions	Customer Operations & Assistance	Distribution Planning & Operations	Enterprise Systems, Strategy & Governance	Facilities, Security & Emergency Operations
Legal, Government Affairs & Contracts	Research & Development, Grants and Partnerships	Community Energy Services	Line Assets	Al, Automation & Customer Self-Service Technologies	DEIB, Learning & Sustainable Communities
Communications, Marketing & Community Relations	Resource & Market Planning and Settlements	Customer Experience Planning & Integration	Substation, Telecom, Network & Metering	Cybersecurity	Enterprise Change & Organizational Effectiveness
Enterprise Affairs	Customer & Grid Strategy	Business Intelligence & Operations Support	Strategic Services & Operations PMO	IT Infrastructure Platform Services	
			Environmental, Safety & Real Estate Services		
			Operational Excellence		
			Specialized Enterprise		

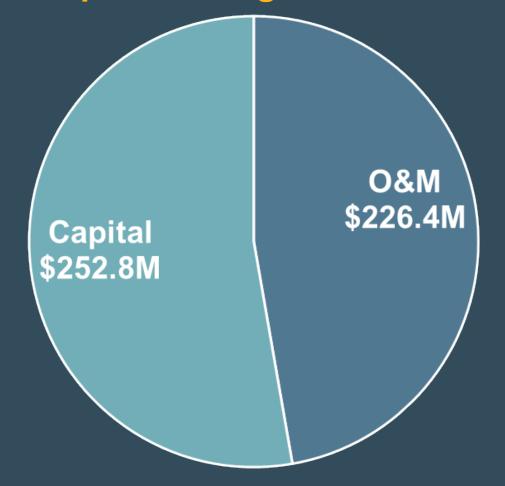


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Initiatives

## **Energy Delivery & Operations**

2025 Proposed budget details



O&M		
Vegetation Management	\$56.2 million	
Transmission Planning & Operations	\$32.6 million	
Substation O&M	\$31.0 million	
Distribution Planning & Operations	\$25.3 million	
Line Field Operations	\$14.1 million	
Line Network Corrective Maintenance	\$13.8 million	
Capital		
Capital Distribution Substation Capacity	\$38.0 million	
•	\$38.0 million \$34.8 million	
Distribution Substation Capacity	· ·	
Distribution Substation Capacity  Bulk Substations (New)	\$34.8 million	
Distribution Substation Capacity  Bulk Substations (New)  Distribution Network	\$34.8 million \$33.8 million	
Distribution Substation Capacity  Bulk Substations (New)  Distribution Network  Transmission Substation Capital	\$34.8 million \$33.8 million \$28.3 million	



## **Energy Delivery & Operations**

Our multi-year plan focuses on safety & reliability, transforming SMUD's grid, optimizing operations, and developing our workforce

- Safety is our top priority
- Transform and maintain a reliable and resilient grid
- Storm Process Improvements & Readiness
- Accelerating Operational Excellence: Strategic Investment Planning & Benchmarking
- Inclusive Workforce strategy



Lineworker Scholarship Graduation - Student Demonstration

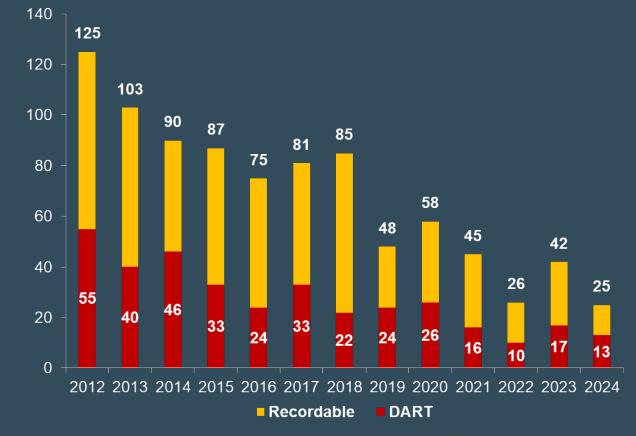




Alignment to Strategic Direction: SD-4 SD-6 SD-8 SD-11 SD-14 SD-16 SD-17

#### Safety is the cornerstone of all that we do

- Safety for Life culture road to zero incidents
- Serious Injury Fatality (SIF) mitigation focus
- Expanded technology use to improve safety
- Increased Contractor and Public Safety engagement
- Keeping our workforce safe during adverse events







Alignment to Strategic Direction: SD-4 SD-6 SD-8 SD-11 SD-14 SD-16 SD-17

- Transform and maintain a reliable and resilient grid
- Zero Carbon plan
  - Electrification
  - Clean Energy manufacturing
  - Renewable project interconnections
- Increased commercial and residential development
- Responding to external cost and availability pressures



**Aggie Square** 





Alignment to Strategic Direction: SD-4 SD-6 SD-8 SD-11 SD-14 SD-16 SD-17

#### **Storm Process Improvements & Readiness**

**Faster restoration with accurate information** 

#### **Key improvements made for the 2025 storm season:**

- Doubling of damage assessment capacity over February 2024 levels
- Ability to provide Estimated Restoration Times (ERTs) for single customer outages
- Improved routing of crews and data for repair scheduling
- Enhanced training and safety standards for high wind events
- Updated outage map to clarify that most customers are restored in the assessment phase



**Storm response** 





Alignment to Strategic Direction: SD-4 SD-6 SD-8 SD-11 SD-14 SD-16 SD-17

#### Transform and maintain a reliable and resilient grid

- Cable & Pole Replacement Programs
- Wildfire Mitigation Plan
- Vegetation Management
- Downtown Network
- Asset Health On-line Monitoring
- Folsom Administrative Operations Building



Line crew replacing 90 ft. steel pole – Folsom Blvd.





Alignment to Strategic Direction: SD-4 SD-6 SD-8 SD-11 SD-14 SD-16 SD-17

#### Transform and maintain a reliable and resilient grid

- Substation projects Planned 35 construction projects in 2025, a 17% increase over 2024
  - Load growth 12 substation and associated line projects
  - Substation Reliability 23 projects
- 35 additional projects that begin design and engineering work in 2025 and construction in future years



**Cordova Substation** 

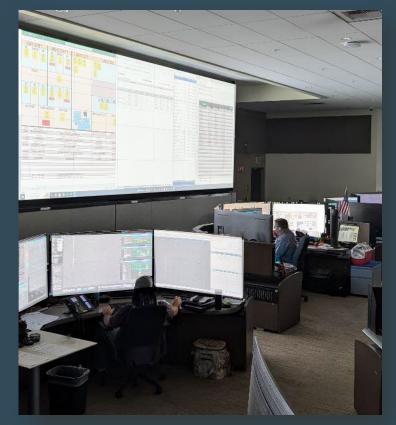




Alignment to Strategic Direction: SD-2 SD-3 SD-7 SD-9 SD-10 SD-19

#### **Grid Transformation**

- Distributed Energy Resource Management System (DERMS)
- Outage Management System (OMS)
- Advanced metering Distributed Intelligence Apps
- Energy Management System (EMS) Upgrade
- Distribution Automation (DA)
- System Readiness Strategy



Distribution System Operators utilizing ADMS and DERMS





Alignment to Strategic Direction: SD-2 SD-3 SD-7 SD-9 SD-10 SD-19

#### **Enterprise Operational Excellence (OpEx)**

We're taking a strategically aligned approach and longer-term view of where we will put our resources to improve efficiency, increase effectiveness, and reduce cost

#### **Strategic Investment Plan**

(3-5-10 Year View)

Long Term Prioritization of Work Categories

Comprehensive Cost Benchmarking

Process Improvement Focus Areas

Targeted Use Cases for New Technologies

Change Mgmt,
Communication, &
Workforce Development

Efficiency & Cost Optimization Initiatives Supporting the Strategic Investment Plan





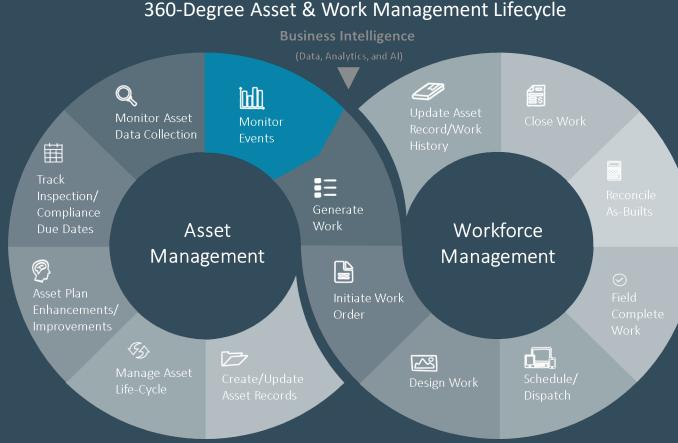
Alignment to Strategic Direction: SD-2 SD-3 SD-7 SD-9 SD-10 SD-19

#### **Asset Management & Analytics**

- Performance
- Investment Planning
- Health Index
- Analytics

#### **Workforce Management**

- Scheduling
- Mobile Work Management
- Field Mapping







Alignment to Strategic Direction: SD-2 SD-3 SD-7 SD-9 SD-10 SD-19

#### **Environmental Leadership**

- Sustainable Operations & Habitat Conservation Plans
- Remediation cleanup at legacy sites
- Environmental Compliance and Permitting
- Biodiversity Enhancement & Climate Adaptation Resilience



**Big Hill Lookout and Union Valley Reservoir** 





# Community Impact

Alignment to Strategic Direction: SD-5 SD-13 SD-15

# We are building a workforce that represents the communities that we serve:

- Sustainable local workforce
- Building our skilled workforce through our entry level and apprentice programs
- Creating new pathways
  - Scholarship Programs
    - Multi-utility collaboration opportunities
  - Powering Careers
  - Bridging Program
- Partnership with Sacramento State University's power engineering program



