Exhibit to Agenda Item #1

Discuss the monitoring report for Strategic Direction SD-17, Enterprise Risk Management.

Board Policy Committee and Special SMUD Board of Directors Meeting Wednesday, November 13, 2024, scheduled to begin at 6:00 p.m. SMUD Headquarters Building, Auditorium



SD-17 Enterprise Risk Management (ERM)

Effectively balancing and managing risk to further SMUD's policies and business goals is a core value of SMUD.

Therefore:

SMUD will implement and maintain an integrated enterprise risk management process that identifies, assesses, prudently manages and mitigates a variety of risks facing SMUD, including financial, supply, operational, physical and cyber security, climate change, legal, legislative and regulatory, and reputational risk.

SMUD is compliant with SD-17, Enterprise Risk Management Policy



Background

June Policy Committee Recap

- KPMG, a global consulting firm, completed a maturity assessment of SMUD's Enterprise Risk Management (ERM) program in April 2024
- Summary of ERM program refresh:
 - Alignment to SMUD's strategy
 - Emphasis on risk focus areas
 - Connect top-down and bottom-up risks
 - Move from annual to quarterly board reporting
 - Move from monthly to quarterly commodity risk exposure analysis



Changing Risk Landscape

North Carolina State ERM Initiative and Protiviti Executive Survey for energy/utility industry, 2024

Top Industry-Wide Risks for 2024	▲/▼ from 2023
Cyber threats	A
Regulatory changes and scrutiny	A
Catastrophic natural disasters and weather	▼
Ability to attract, develop and retain top talent	▼
Supply chain	▼
Outsourced risks	A
Climate change and other sustainability policies, regulations, and disclosure requirements	A
Economic conditions	▼
Interest rates	▼
Legacy IT infrastructure	New



⚠ Risk Dashboard

Purpose: Effectively balance and manage risk to further SMUD's policies and business goals (SD-17)

Summary of all risks by category and residual risk level			Risk focus areas (2023-2024)		Residual risk		
				1		Changing customer expectations ^(new)	med.
Strategic (17)		• • ↑ ★ •	I		Strategic	Renewable projects	med.
		○ • ★	I			Unmanaged electrification	med.
						Cybersecurity	high
Operational		, ★ ★ ★ ★	* *			Data privacy	high
(49)		* * * * * * * * * * * * * * * * * * *	★ ^			Grid infrastructure & operational adequacy ^(new)	high
gory	Jory			-	Operational	Grid infrastructure T & D	high
Risk category (11)			I			Control center	med.
(11)			I			Business continuity and disaster recovery	med.
				-		Physical asset security	med.
External		* _	*	Legend		Strategic workforce planning: Critical positions	med.
(6)		*		Enterprise		Supply chain	med.
L	L = w (20)	Madine (44)	:	Risk		Employee Safety	med.
	Low (39)	Medium (41) Hig Residual risk level	igh (5)	Risk focus area		Power generation asset reliability	low
Recent Cha	anges			4.54	Financial	Price volatility: Commodity	med.
Date	Recent Changes Date Category Risk Name Change				Wildfire	high	
Sept 2024	External	Business Agility	_	Risk: Med to Low	External	Regulatory/legislative mandates	med.
Sept 2024	Operational	Demand Response		Risk: Low to Med		Severe weather	med.



2024 Risk Management Highlights

Category	Risk focus area	Exposure	Trend	Mitigations	Relevant report
Strategic	Changing customer expectations	Medium	仓	 New features in My Energy Tools New contact center technologies, including multi-language translation Expansion of Community Impact Plan efforts 	SD-5, Aug 2024
	Renewable projects	Medium	→	New land screening processPortfolio management enhancements	Zero Carbon Update, Sept 2024
	Unmanaged electrification	Medium	1	 Research and development on panels Managed charging pilot maturity "Call SMUD First" Campaign 	SD-10, Oct 2024
Operational	Cybersecurity	High	⇧	Mitigations reported through SD-16 and discussed in closed session	SD-16, Nov 2024
	Data privacy	High	→	Data sharing policy and processes	SD-16, Nov 2024
	Grid infrastructure & operational adequacy	High	→	 Significant progress in design and construction of 5 transmission substations Completed 30 substation upgrades 	SD-4, June 2024
	Grid infrastructure T&D	High	→	Ongoing T&D asset maintenanceMulti-year replacement strategies using a risk-based approach	SD-4, June 2024
	Business continuity & disaster recovery	Medium	Û	 Implemented new Business Continuity Management (BCM) Solution Initiated process to validate and catalog technology applications Crowdstrike response 	CIO Board letter



2024 Risk Management Highlights

Category	Risk focus area	Exposure	Trend	Mitigations	Relevant report
Operational, Cont.	Control center	Medium	→	 Acquired land for new power control center CA Environmental Quality Act (CEQA) complete in near future 	Oct 2024
	Physical asset security	Medium	•	 Work with Law Enforcement to address safety concerns Evaluating use of robots, drones, and AI to assist security personnel 	SD-6, Oct 2024
	Employee safety	Medium	Ø	 Safely Conducted Observations Reduce Common Hazards (SCORCH) program Culture of safety 	SD-6, Oct 2024
	Strategic workforce planning: critical positions	Medium	→	 Bi-annual role analysis 7% of SMUD roles identified as "key" Continuing to develop action plans for all key roles 	SD-8, May 2024
	Supply chain	Medium	仓	 Contractor Code of Conduct Demand planning Implemented bulk purchasing efforts 	June 2024
	Power generation asset reliability	Low	→	Established processes to manage unexpected disruption	SD-4, June 2024

Risk trend changed from 2023 to 2024



2024 Risk Management Highlights

Category	Risk focus area	Exposure	Trend	Mitigations	Relevant report
Financial	Price volatility: commodity costs	Medium	⇨	 Northern California Energy Commodity Prepay Restructuring Power Procurement Directive 	SD-17, June 2024 Nov 2024
External	Wildfire	High	→	2024-28 Hazard Mitigation Plan (HMP) submittedVegetation management	HMP, Feb 2024 SD-4, June 2024
	Legislative / Regulatory	Medium	仓	State and Federal monitoringWestern Electricity Coordinating Council "mock" audit	Monthly board report
	Severe weather	Medium	\Rightarrow	Storm response teamMock storm exercises	SD-4, June 2024

Risk trend changed from 2023 to 2024



November 13, 2024

2025 ERM Look-Ahead

- Restructure risk focus areas to be cross-functional, top-down views with connections to current, bottom-up risks
- Revisit risk scoring, metrics, and reporting
- Introduce emerging risk discussion
- Enhance risk governance and control environment by coordinating with Internal Audit on integrated assurance mapping
- Continue to build a risk-intelligent culture



Thank you!

