

Exhibit to Agenda Item #1b

Board Finance & Audit Committee Meeting and Special SMUD Board of Directors Meeting – Budget 2020

Thursday, November 7, 2019, scheduled to begin at 5:00 p.m.

Customer Service Center, Rubicon Room

Technology 2020 Proposed Budget & Initiatives

Stephen Clemons
Chief Technology Officer

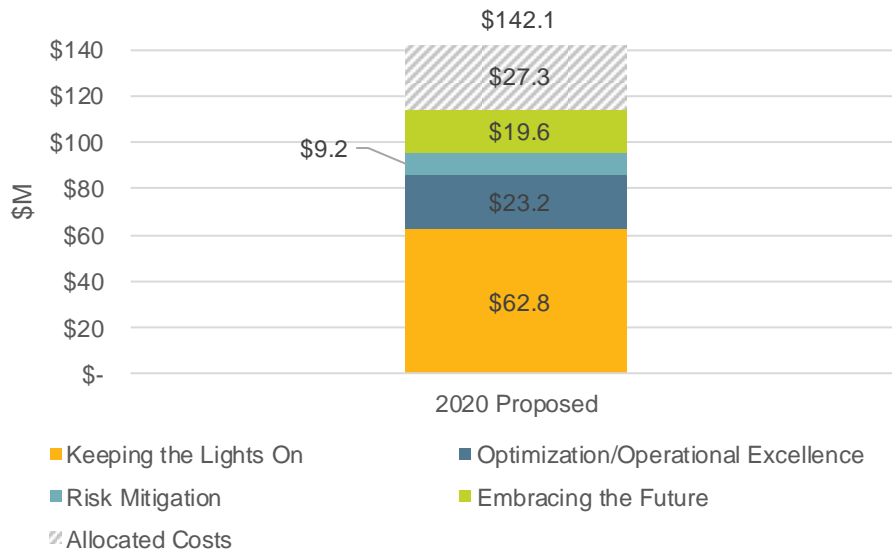


Technology Business Segments and Functions

Strategy, Planning & Governance	Strategic Initiatives	Infrastructure & Operations	Information Technology Security	Projects & Applications
Relationship Management	Project Planning & Execution	Project Planning & Execution	Cybersecurity Governance & Compliance	Project Planning & Execution
Business Transformation	Operational Support	Operational Support	CIP Compliance	Operational Support
	Problem Resolution	Problem Resolution	Privacy Program	Problem Resolution
	Technology Enhancements	Service Management	Threat Assessment & Response	Technology Enhancements
	Contracts & License Management	Planning & Assessment	System Security Operations	Planning & Assessment
	Data Governance	Compliance	Cyber Risk	Quality Assurance
	Enterprise Architecture			Project Management



2020 Proposed Budget by Theme





Keeping the Lights On

- Ensure SMUD's applications and technology infrastructure are available, secure and in compliance (SD-2, 4, 8, 16, 17)
- Deliver key upgrades to Meter To Cash systems to improve reliability and mitigate risk, in collaboration with partner business units (SD-2, 4, 17)
- Implement lifecycle improvements to support increased collaboration, mobile workforce and communications network reliability (SD-4, 8, 17)
- Key projects to upgrade meter communications network, microwave network, and technology infrastructure for the Meter Data Management System (SD-4)





Optimization and Operational Excellence

- Improve efficiency and reliability of technology applications and infrastructure (SD-2, 4, 8, 17)
- Enhance monitoring of key operational systems to increase reliability (SD-4, 6, 17)
- Mature a strategic view of technology and human resources (SD-4, 8, 17)
- Key projects to plan for replacement of Enterprise Resource Planning system, to deliver analytical tools to SMUD staff and for technology to improve human resources processes (SD-2, 8)

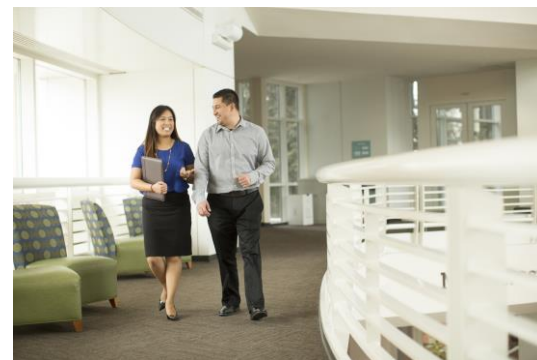
**In 2020,
\$13.5M in
Savings is built
into the
Proposed
Budget**





Risk Mitigation

- Cybersecurity: Mitigate risk through audit remediation, monitoring, training and education (SD-8, 16, 17)
- Build on 2019 Critical Infrastructure Protection audit results to ensure reliability and security of the Bulk Electric System (SD-16, 17)
- Cyber-attacks on utilities from nation-states and other threats (SD-16, 17)
- Anticipate and respond to rapid changes in technology (SD-10, 16, 17)
- Evolve security risk management practices for information and data (SD-16)
- Implement outreach and retention strategies to ensure IT's workforce is dynamic and diverse (SD-8, 10, 17)





Embracing the Future

- Modernize our power grid to integrate Distributed Energy Resources and to evolve communications technologies (SD-4, 16)
- Continue to add functionality to enhance the Customer Experience (SD-5)
- Enable a flexible workforce using applications on multiple devices (SD-8, 16)
- Embed the delivery of innovative technology into IT's mission (SD-2, 10, 16)
- Key projects include Workforce Optimization, Advanced Distribution Management System, Frame Relay Transformation and Enterprise Application Integration (SD-2, 4, 5, 8, 10, 16)





Technology 2020 Proposed Budget

