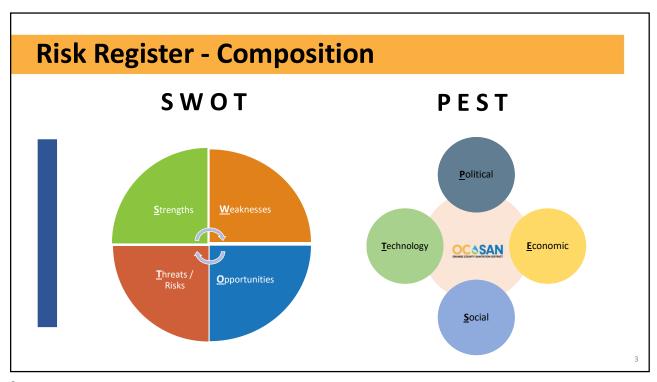


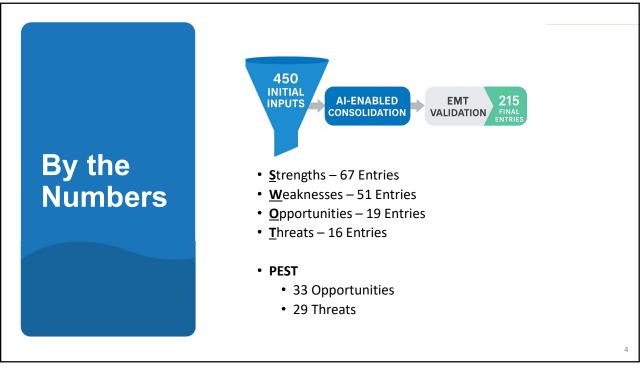
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# Risk Register • Overview of Od

- Overview of OC San's current opportunities and risks
- Part of Strategic Planning Process
- Input from Staff
- Focus on Ten Operational Impact Areas







# **Threats**

These are strategically significant risks, each with action plans.

Total: 16 ranked entries

Rank Range	Example Topics
1-5	Cybersecurity, Cross Connection Program, IT Continuity, Procurement, Regulatory Barriers
6-10	Workforce, Infrastructure Gaps, Security, Delivery Risks
11-16	Biosolids, Public Trust, Political Delay, Easements, EV Gaps, Economic Volatility

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# **Opportunities**

These are **forward-looking prospects** for improvement or growth, **all associated with action plans**.

Total: 19 ranked entries

Rank Range	Focus Areas
1-6	Deep Well Injection, AI & Automation, LOTO, Capital Project Lifecycle, Workforce Readiness, Digital Finance
7-13	Cybersecurity, Safety Modernization, Lab Modernization, Metering, Cloud IT, Composting, Potable Reuse
14-19	Shutdown Standardization, Digital Comms, Forms, Advanced Treatment, Community Engagement, EV Charging

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## **Talent Acquisition and Succession**

- Risks
  - Managers noted Talent Acquisition & Succession as a priority
    - Sustained communication, investment & action to support continuity and capacity
  - · Clear, Actionable Vulnerabilities
    - · Limited cross-training, single-incumbents, retirement risk
  - Real Strengths to Build On
    - Dedicated personnel and strong inter-team collaboration

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# **Talent Acquisition and Succession**

- Strategies
- · Workforce Vulnerability Assessment
  - An annual exercise identifying critical positions, talent readiness/gaps and staffing needs
- Individual Development Plans
- · Employee Training and Development
  - · Technical and Soft Skills Training
  - Leadership Development Programs
  - Job Shadowing and Mentoring
  - · Tuition reimbursement and certification reimbursement programs
  - Development Pay Program
- Skills Broadening
  - Rotation Assignments
  - Broader classifications
  - Reduced number of single incumbent classifications
- · Standard Operating Procedures (SOP), Desk Procedures, Internal Knowledge Repositories (Wikis)

В

# **Project Delivery and Execution**

#### Risks

- Project delays can compound across the program, leading to increased costs and execution impacts between projects
- Construction projects increase over the next 3 to 5 years, requiring additional resources and increased coordination
- Small projects are essential to maintaining plant operations but compete with CIP resources and require disproportionate effort

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# **Project Delivery and Execution**

#### **Strategies**

- Strong Execution
  - Through collaboration, use of data tools, and design-build innovation
  - Maintaining strong delivery through continuous optimization
- Manage additional or redirected resources to align with the project workload
- Maintain strong coordination with O&M
  - Use Shutdown Coordination Committee to coordinate project timing
  - · Well-defined project work restrictions and sequencing
  - Coordination meetings with O&M
  - Plan and coordinate small project timing and urgency with O&M
- Proactively monitor and mitigate delays through timely decision-making and risk monitoring

# **Cybersecurity**

#### Cybersecurity: OC San's Top-Ranked, Cross-Cutting Risk

- Tops the threat list due to its reach across IT, SCADA, remote access, staffing and physical infrastructure
- Multiple stressors converge across operational and digital domains
  - · Aging infrastructure that is harder to secure
  - Remote access points that expand the attack surface
- Ongoing mitigation efforts including risk assessments, VPN controls, training and RED Team testing — require sustained executive attention and cross-department coordination

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## Cybersecurity

#### **Mitigation Efforts**

- Network Air gapped from Enterprise/Office networks no internet access
- Segmented network use
- Protected by NextGen firewalls
- Account and Access Control Management
- Audit Log Management
- Security awareness and skills training
- Service Provider Management
- Incident Response Management
- Continuous Vulnerability Management
- Email and Web Browser Protections
- Malware Defenses
- Data backup and recovery

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# **Regulatory Pressures**

#### Regulatory Pressure – From Compliance Risk to Strategic Alignment

- Evolving mandates, permitting complexity, infrastructure needs, and workforce strain are increasing compliance demands across the organization
- OC San's credibility, agency partnerships, and early technology adoption support proactive alignment with emerging standards
- OC San works proactively with regulators, influencing policy, and embedding compliance into innovation and capital planning

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#### 13

# **Asset Reliability**

#### Asset Reliability – Aging Infrastructure Impacts System Resilience

- OC San's asset management program is well-established, actively evolving, and aligned with long-term improvement goals
- Leverage maintenance data and risk-based decision making through digital asset management to guide project and asset replacement timing
- Develop a comprehensive condition assessment program for all critical assets to support proactive maintenance and replacement



- Themes from the 2023 Risk Register cybersecurity, staffing, digital modernization and regulatory readiness persist in 2025
- This consistency suggests alignment across the organization but also reveals areas where more visible progress may be needed
- Action plans are strong but better tracking is required
- Need to incorporate workforce readiness into Key Performance Measures/Critical Success Factors in Business Accountability Charters

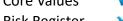
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### **Next Steps – Strategic Planning**

Budget Update Adopted



- Strategic Planning Review
  - Strategic Plan
  - Levels of Service
  - Core Values
  - · Risk Register



- Internal Policy Papers Update August
- Draft Strategic Plan September
- Final Strategic Plan for Adoption November