

SPECIAL MEETING OF THE CPS ENERGY BOARD OF TRUSTEES CONVENING AS THE RISK MANAGEMENT COMMITTEE TO BE HELD ON NOVEMBER 12, 2024, AT 1:00 P.M. LOCATION: CPS ENERGY BOARD ROOM (500 MCCULLOUGH AVE.)

At any time during the Board Meeting, the Board may go into an executive session as permitted by the Texas Open Meetings Act, (Chapter 551 of the Texas Government Code) regarding any item on this agenda.

AGENDA

ITEM	TOPIC	ACTION	PRESENTER/ SPONSOR			
1	CALL TO ORDER	Execute	Dr. Willis Mackey			
2	SAFETY MESSAGE, INVOCATION, & PLEDGE OF ALLEGIANCE	Execute	Ms. Edna Elizalde			
3	PUBLIC COMMENT Pre-Registration on Wednesday, November 6, 2024, 5:00 PM – Friday, November 8, 2024, 1:00 PM. Dial (210) 353-4662 or email PublicCommentRegistration@CPSEnergy.com	Discuss	Dr. Willis Mackey			
CONSE	NT AGENDA					
4	 APPROVAL OF: Minutes of the Risk Management Committee (RMC) meeting held on 6/17/2024 	Vote	Dr. Willis Mackey			
RISK IV	IANAGEMENT COMMITTEE					
5	ENTERPRISE RISK MANAGEMENT UPDATE	Discuss	Ms. Annamarie Rangel			
6	ENERGY TRANSITION (Mr. Bill Kost, Marsh)	Discuss	Dr. Willis Mackey			
7	EVOLVE: ARTIFICIAL INTELLIGENCE (AI)	Discuss	Mr. Evan O'Mahoney			
8	HORIZON 2050 UPDATE	Discuss	Ms. Elaina Ball			
9	COMMITTEE GOVERNANCE REVIEW	Discuss & Vote	Dr. Willis Mackey			
CONVE	CONVENE TO EXECUTIVE SESSION					
10	EXECUTIVE SESSION: A. Attorney-Client Matters (§551.071) & Competitive Matters (§551.086) B. Attorney-Client Matters (§551.071)	Discuss	Dr. Willis Mackey			
11	REVIEW OF ACTION ITEMS	Discuss	Dr. Willis Mackey			

12 ADJOURNMENT Execute Dr. Willis Mackey

If the Board meeting has not adjourned by 4:00 PM, the presiding officer shall entertain a motion to continue the meeting, postpone the remaining items to the next Board meeting date, or recess and reconvene the meeting at a specified date and time.

Draft for review and approval at the November 12, 2024 meeting

CPS ENERGY MINUTES OF THE SPECIAL MEETING OF THE BOARD OF TRUSTEES HELD ON JUNE 17, 2024

The Special Meeting of the CPS Energy Board of Trustees, convening as the Risk Management Committee, was held on Monday, June 17, 2024, at the CPS Energy Training Center located at 4515 Frank Bryant Lane, San Antonio, Texas.

I. CALL TO ORDER

Trustee Dr. Mackey called the meeting to order at 10:30 a.m.

Present were Board members:

Dr. Willis Mackey, Chair

Ms. Janie Gonzalez (arrived at 11:20 a.m.)

Dr. Francine Romero

Mr. John Steen

Mayor Ron Nirenberg

Also present were:

Mr. Rudy Garza, President & CEO

Ms. Shanna M. Ramirez, Chief Legal & Ethics Officer, General Counsel & Board Secretary

Ms. Elaina Ball, Chief Strategy Officer

Mr. Benny Ethridge, Chief Energy Supply Officer

Mr. Cory Kuchinsky, Chief Financial Officer & Treasurer

Ms. DeAnna Hardwick, Chief Customer Strategy Officer

Ms. Lisa Lewis, Chief Administrative Officer

Mr. Richard Medina, Chief Energy Delivery Officer

Mr. Evan O'Mahoney, Chief Information Officer

CPS Energy staff members

II. SAFETY MESSAGE, INVOCATION, & PLEDGE OF ALLEGIANCE

A safety message, invocation, and the Pledge of Allegiance were delivered by Ms. Annamarie Rangel, Director Enterprise Risk Management & Solutions.

III. PUBLIC COMMENT

There were no members of the public wishing to provide public comment.

IV. APPROVAL OF CONSENT AGENDA

On a motion duly made by Trustee Dr. Romero, seconded by Mayor Nirenberg, and upon affirmative vote by all members present, the following items on the Consent Agenda were unanimously approved:

1 of 3

Draft for review and approval at the November 12, 2024 meeting

A. Minutes of the Risk Management Committee Meeting held on December 11, 2023

V. FY2025 ENTERPRISE & INDUSTRY RISKS

Ms. Annamarie Rangel, Director Enterprise Risk Management & Solutions, presented on the Fiscal Year 2025 enterprise and industry risks. She noted that we were thoughtful and engaged in identifying and assessing the risks. She reviewed the risk landscape within the energy industry and our risk mitigation planning. She concluded by noting that CPS Energy will continue to drive the enterprise risk management focus through collaborative discussions and actions.

The Board of Trustees asked questions and discussed the presentation.

VI. ERP RISK MANAGEMENT

Mr. Evan O'Mahoney, Chief Information Officer, presented on our Enterprise Resource Planning (ERP) risks. He noted that we are actively mitigating the risk themes common across ERP programs of similar size and scope, and he reviewed the top risks and mitigation strategies. Finally, he reviewed the governance structure for ERP and the selection for an Independent Verification & Validation (IV&V) partner.

The Board of Trustees asked questions and discussed the presentation.

VII. FINANCIAL RISK MANAGEMENT

Mr. Cory Kuchinsky, Chief Financial Officer & Treasurer, presented our financial risks. He discussed that our rates are designed to generate revenue that fully covers our operating expenses, capital investments, and payments to debt holders. He explained the budget planning process includes factoring in costs to address current threats impacting the organization and reviewing budgetary items. He also discussed benchmark data, noting that CPS Energy's credit ratings compare well to other public power utilities. Finally, he noted flexibility with asset acquisition will mitigate future price uncertainty and improve our long-term leverage.

The Board of Trustees asked questions and discussed the presentation.

VIII. GENERATION PLANNING RISK MANAGEMENT

Mr. Benjamin Ethridge, Chief Energy Supply Officer, presented on risks related to the Vision 2027 Generation Plan. He noted that we developed the Generation Plan to mitigate external factors. He explained how each action: entering into Power Purchase Agreements, acquiring gas generation, converting Spruce to gas generation, and adding peaking generation will provide benefits that lower risks.

The Board of Trustees asked questions and discussed the presentation.

Draft for review and approval at the November 12, 2024 meeting

IX. EXECUTIVE SESSION

At approximately 12:35 p.m., Chair Dr. Mackey announced the Board would go into Executive Session, and Ms. Ramirez announced that the required notice had been posted and that the Trustees, with only necessary parties in attendance, would convene into Executive Session, pursuant to the provisions of Chapter 551 of the Texas Government Code, for discussion of a number of posted items, including the following:

- Competitive Matters (§551.086)
- Security Audits & Devices (§551.089) & Confidential Information under the Homeland Security Act (§418.1082(f))
- Attorney-Client Matters (§551.071)

The Board reconvened in open session at 1:31 p.m. The quorum was re-established, and all members were present. Ms. Ramirez reported that only the matters cited above, and no others were discussed, and no votes were taken in Executive Session.

X. REVIEW ACTION ITEMS

Ms. Ramirez noted that all action items from previous meetings were closed. She reviewed the new action items.

XI. ADJOURNMENT

There being no further business to come before the Board Committee, upon a motion duly made by Mayor Nirenberg and seconded by Trustee Dr. Romero and upon an affirmative vote by all members present, the meeting was unanimously adjourned at 1:36 p.m. by Chair Dr. Mackey.

Shanna M. Ramirez Secretary of the Board



ENTERPRISE RISK MANAGEMENT UPDATE

PRESENTED BY:

Annamarie Rangel

Director Enterprise Risk Management & Solutions

November 12, 2024
Informational Update

AGENDA



- Utility Risk Landscape
- Utility Emerging Risks
- Integrated and Strategic Planning
- Enterprise Risk Management (ERM) Review
- ERM Focus
- Focused Risk Discussion

ERM partners with the organization to promote risk awareness and reduce risk exposure.

2024 KEY UTILITY RISK TRENDS



Utility Risk Trends



Artificial Intelligence



Capital Planning



Climate



Electrification



Resource Planning

We must follow a reasonable and balanced planning approach that enables affordable and reliable energy, which contributes to the economic stability of our community.

Source: Deloitte Research Center for Energy & Industrials: 2024 Power and Utilities Industry Outlook

GARTNER - EMERGING UTILITY RISKS



2024: 3RD QUARTER

An understanding of our total risk landscape requires identification and assessment of current and emerging risks. Through integrated planning, we are taking an enterprise-wide approach to discussing and analyzing risks.

Demographic Filter: Sector - Utilities

Rank	Risk	Risk Score ¹
1	Al-Enhanced Malicious Attacks	3.88
2	Unsettled Regulatory and Legal Environment	3.87
3	Extreme Heat Consequences	3.84
4	IT Vendor Criticality	3.58
5	Misaligned Organizational Talent Profile	3.50

Source: 3Q24 Gartner Emerging Risk Report

¹Risk Score = Cube Root (Impact x Inverse Time Frame x Frequency)

INTEGRATED AND STRATEGIC PLANNING



SHORT- & LONG-TERM MITIGATION PLANNING

To achieve our integrated and strategic initiatives, we strive for mitigation strategies that are holistic and focus on our vision and mission, while being financially reasonable.

Key Focus Areas:

- Customer Value
 - Reliability
 - Affordability
- Financials
- Prioritization
- Metrics



ERM is an integral component of integrated and strategic planning.

ENTERPRISE RISK MANAGEMENT REVIEW CDS



AUDIT ADVISORY ASSESSMENT

Audit Services partnered with Deloitte to perform a high-level assessment of the **ERM Program and Business Area.**

Identified Strengths:

- ✓ Business area reorganized to report into the Business Strategy Team.
- ✓ Strong understanding of the risk management processes defined within the ERM Program.
- ✓ Strong emphasis on continually enhancing the risk program.

Recommendations:

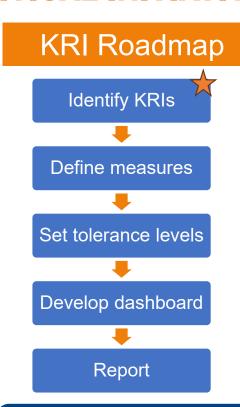
- ✓ Enhance risk awareness, communication, and oversight.
- ✓ Improve risk framework analytics, techniques, and tools.
- ✓ Increase collaboration and partnerships.

Strategically implementing improvements in alignment with current priorities and resources will assist in further strengthening enterprise risk management.

ENTERPRISE RISK MANAGEMENT FOCUS



CRITICAL INITIATIVES



- Improve risk statements.
- Improve risk mitigations.
- Develop Key Risk Indicators (KRIs).
- Develop and support Enterprise Resource Planning (ERP) Transformation risk management.
- Lead the selection of the Independent Verification and Validation (IV&V) vendor.
- Facilitate risk deep dives.

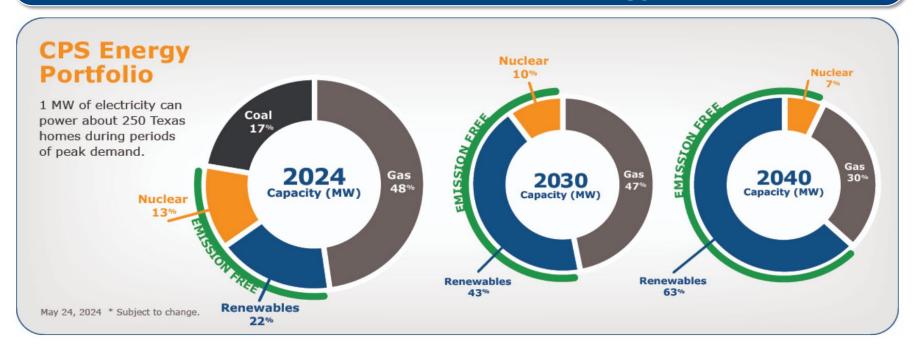
We will continue to partner and collaborate with the organization to improve enterprise risk awareness, visibility, and exposure.

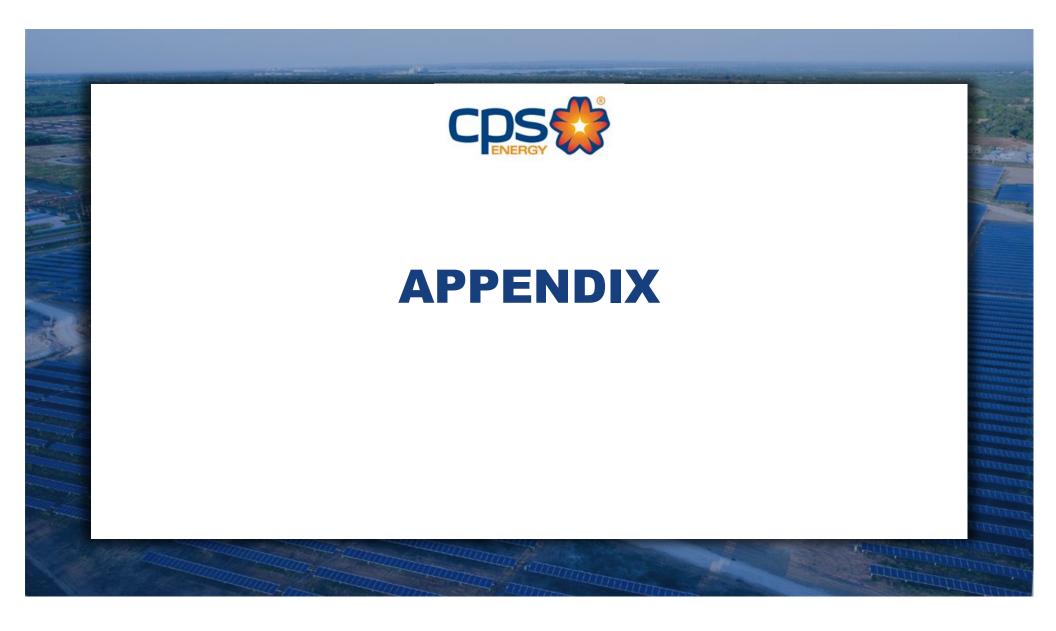
ENERGY TRANSITION

CDS

PATH FORWARD

We are part of the global move toward sustainability. Renewable energy is a fundamental component of our Power Generation Strategy.





GLOSSARY / DEFINITIONS



ACRONYM OR WORD	DEFINITION	ACRONYM OR WORD	DEFINITION
Al	Artificial Intelligence	MW	Megawatt
ERM	Enterprise Risk Management		
ERP	Enterprise Resource Planning		
IT	Information Technology		
IV&V	Independent Verification & Validation		
KRI	Key Risk Indicator		

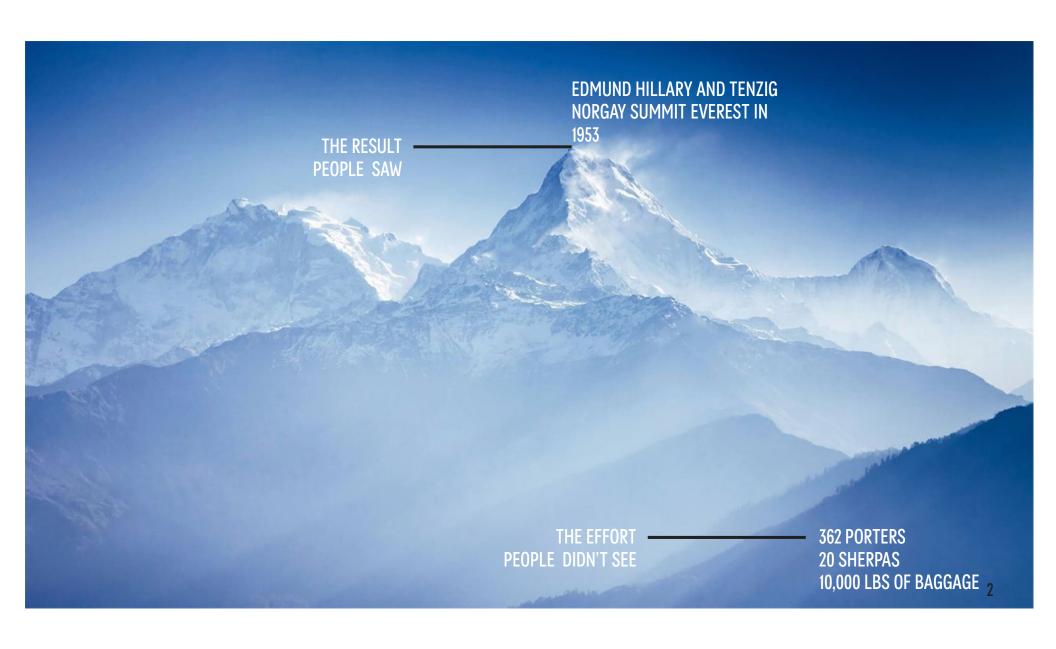


RISK INSIGHTS FOR THE

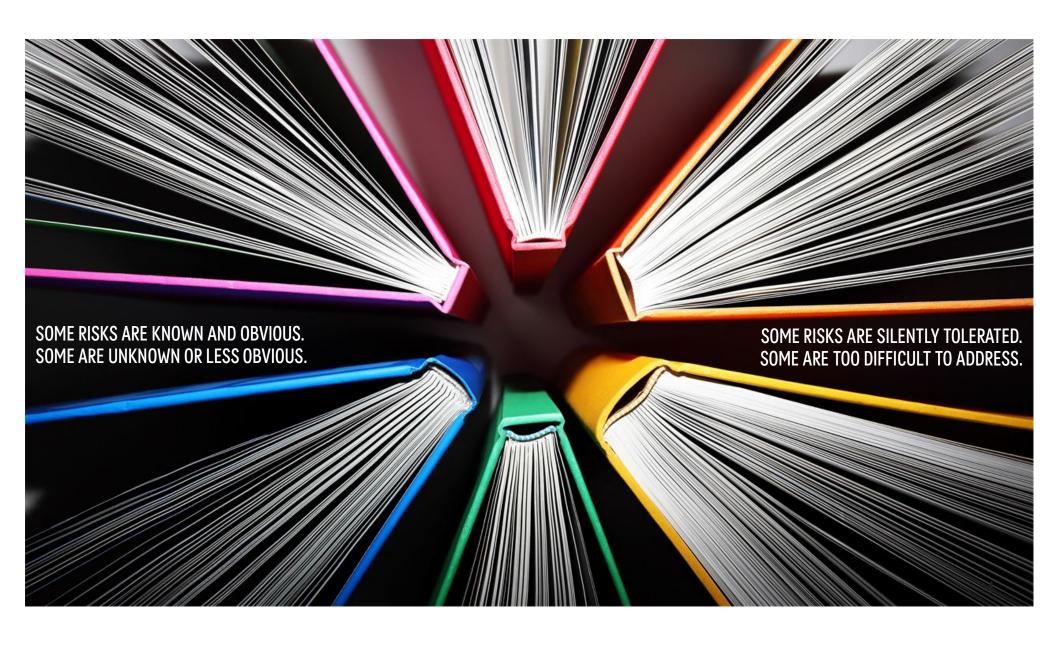
ENERGY TRANSITION

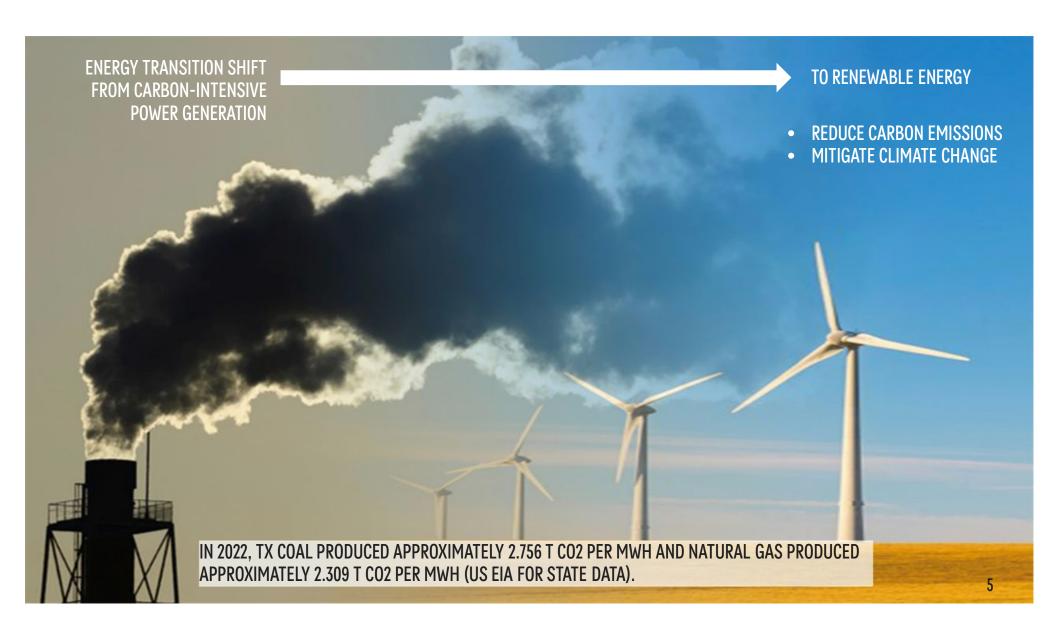
BILL KOST

ENERGY & POWER ADVISORY LEADER











SELF-PERFORM?

CONTRACT OUT?



SITE SELECTION RISK







PROJECT OPERATION RISK



PROJECT DESIGN RISK



PROJECT CONSTRUCTION RISK

CONTRACT OUT TO 0&M PROVIDER

DEBT OBLIGATIONS

PREMISES LIABILITY

OBLIGATIONS AS

DEFINED BY OEM

LOSS OR DAMAGE

RISK OF PHYSICAL

 RISK OF BUSINESS INTERRUPTION

OPERATIONAL



CPS

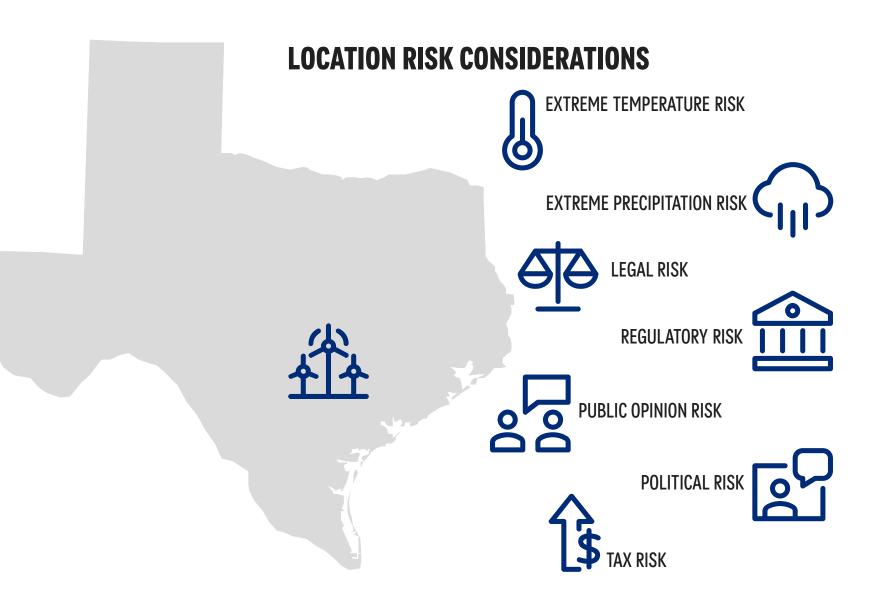
- - WARRANTY OBLIGATIONS

0EM

- CREDIT/DEFAULT RISK
- REPLACEMENT PARTS AVAILABILITY RISK
- SUPPLY CHAIN RISK

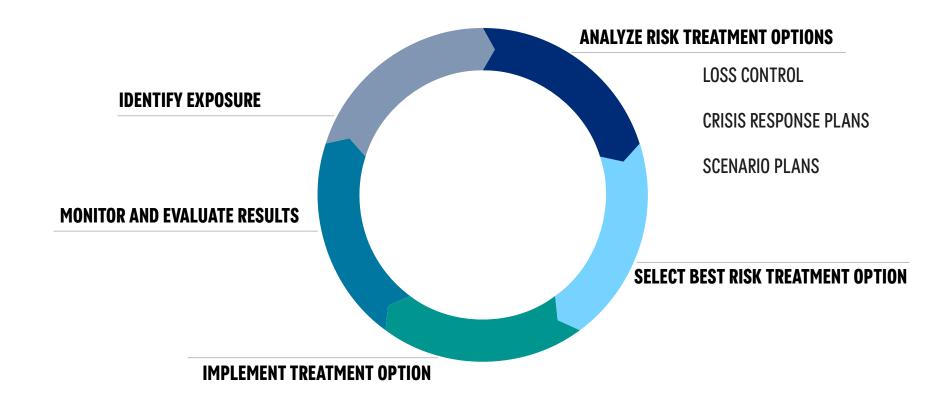
0&M PROVIDER

- PERFORMANCE OBLIGATIONS
- CREDIT/DEFAULT RISK
- INSURANCE OBLIGATIONS
- SUBCONTRACTOR RISK



RISK MANAGEMENT

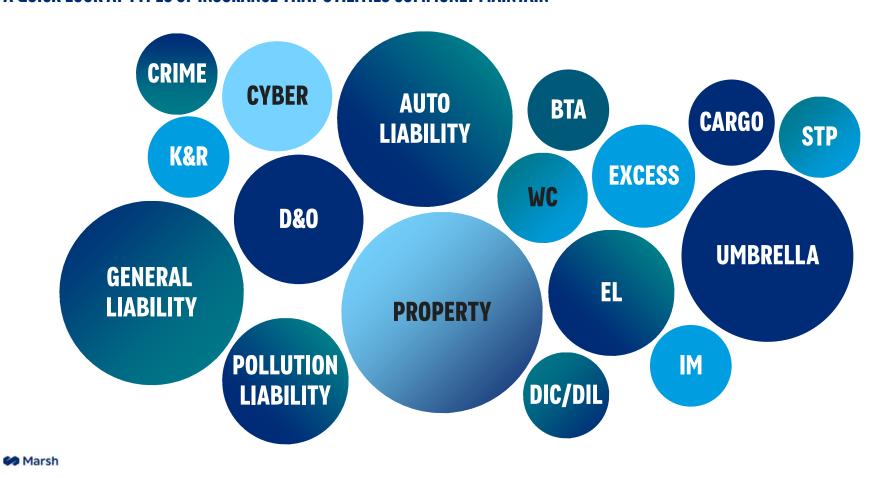
A 5-STEP PROCESS



Marsh

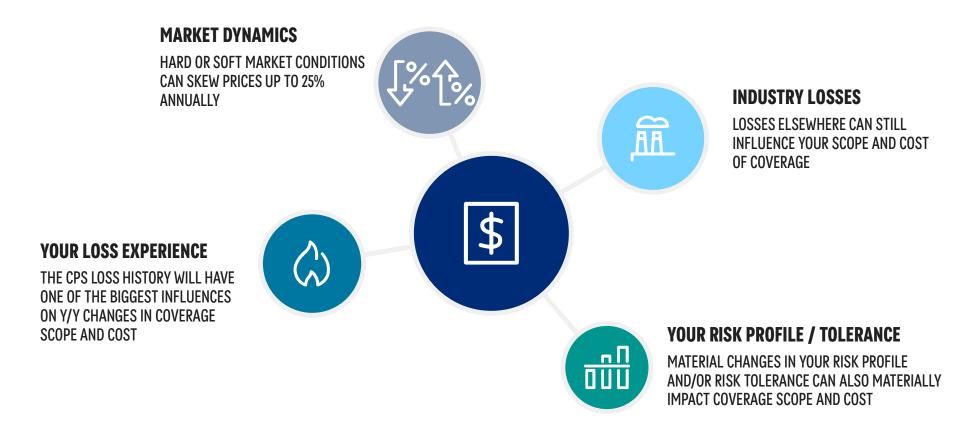
INSURANCE SNAPSHOT

A QUICK LOOK AT TYPES OF INSURANCE THAT UTILITIES COMMONLY MAINTAIN



INSURABLE RISKS

A BRIEF OVERVIEW OF KEY INFLUENCES ON YOUR INSURANCE STRUCTURE AND COST



Marsh Marsh



CURRENT STATE, TRENDS, AND OUTLOOK

RISK	CURRENT STATE	TREND	OUTLOOK
POWER SUPPLY	INCREASING/SHIFTING - GAS, RENEWABLES, AND STORAGE; REDUCING - COAL AND OLDER GAS	RENEWABLES INCREASING & TIED TO TAX INCENTIVES; GAS INCREASING & TIED TO STATE RESILIENCY EFFORTS; BESS DOMINATES ESS; EMERGING GROWTH IN MICROGRIDS	SUPPLY CHAIN AND POLITICAL RISK MAY INFLUENCE GENERATION SUPPLY GROWTH; CAN SUPPLY KEEP PACE WITH OR AHEAD OF DEMAND GROWTH?

RISK	CURRENT STATE	TREND	OUTLOOK
POWER DEMAND	INCREASING - RESIDENTIAL, INDUSTRIAL, AND DATA	INDUSTRY, MANUFACTURING, DATA, EVS CONTRIBUTE TO DEMAND GROWTH; MINOR REDUCTIONS DUE TO CONSERVATION, EFFICIENCY, AND OLD ASSET RETIREMENT	GROWTH; ECONOMIC PROSPERITY AND

RISK	CURRENT STATE	TREND	OUTLOOK
POLITICAL SUPPORT	MIXED ACROSS CITY, STATE, AND FEDERAL	POTENTIAL FOR CONFLICT OR ALIGNMENT ACROSS LOCAL, STATE, AND FEDERAL GOVERNMENT	TEXAS WILL REMAIN PRO-GROWTH AND PRO-BUSINESS, BUT UNCLEAR HOW INFLUENTIAL IT WILL BE ON SUPPORTING OR INHIBITING THE ENERGY TRANSITION

RI	SK	CURRENT STATE	TREND	OUTLOOK
ECONOMIC	INCENTIVES	SOFT-LANDING VS. FUTURE RECESSIONS?	REGIONAL GROWTH SHOULD REMAIN POSITIVE, EVEN IN THE FACE OF NATIONAL OR GLOBAL STAGNATION OR DECLINE	RECESSIONS ARE TEMPORARY; ASSET RETIREMENT COMPELS NEW PROJECT GROWTH EVEN WITH STAGNANT DEMAND

RISK	CURRENT STATE	TREND	OUTLOOK
PEOPLE RISK	AGEING WORKFORCE, LEGACY PLANNING, REMOTE OPERATIONS, & TECH HABITS	POPULATION GROWTH REMAINS POSITIVE	LARGER AND MODERN POPULATION WILL DEMAND ELECTRIFIED TRANSPORTATION AND INFRASTRUCTURE; RISE IN CLIMATE RESILIENT COMMUNITIES

RISK	CURRENT STATE	TREND	OUTLOOK
PHYSICAL RISK	NATURAL CATASTROPHE, FIRE, EQUIPMENT BREAKDOWN, TECHNOLOGY PERFORMANCE, AND MORE	WEATHER AND CLIMATE VOLATILITY CONTINUES TO INCREASE; SAFETY AND LOSS CONTROL CONTINUE TO REDUCE OTHER LOSSES	A MILL ALL MANGELLA DOCUMENT

RISK	CURRENT STATE	TREND	OUTLOOK
CONTRACTUAL RISK	BEST PRACTICES, CONTRACTUAL RISK TRANSFER PHILOSOPHY, AND CASE LAW	LITIGATION STRATEGIES CONTINUE EVOLVING; DEEP POCKETS AND INSURANCE REMAIN ON THE HOOK FOR MOST COMPLEX AND CATASTROPHIC CLAIMS	CONTRACT RISK TRANSFER WILL

RISK	CURRENT STATE	TREND	OUTLOOK
INVESTMENT RISK	EQUITY, BONDS, INTEREST RATES, & RISK-ADJUSTED IRR	PE AND INSTITUTIONAL INVESTMENTS INCREASE; STRATEGIC BUYERS DIVERSIFYING PPA COUNTERPARTIES; GOVERNMENT INCENTIVES CONTINUE EVOLVING; INCREASE IN USING RISK-ADJUSTED IRR AS METRIC	INTEREST RATES, MARKET DISTORTIONS, AND CAPITAL GROWTH; INCREASING INVESTMENTS FROM FOREIGN ENTITIES; MICROTRANSACTIONS, DEFI, AND MICROINVESTING MAY HAVE A ROLE TO PLAY

RISK	CURRENT STATE	TREND	OUTLOOK
INSURANCE MARKET	SOFT OR SOFTENING	SOFT(ER) MARKET ON THE HORIZON; EVOLUTION IN CAPTIVES; INCREASE IN STRATEGIC RISK RETENTION	STRATEGIC USE CASES OF ALTERNATIVE RISK TRANSFER AND INSURANCE ALTERNATIVES

	RISK	CURRENT STATE	TREND	OUTLOOK
PARTNI	ERSHIP RISK	PPP, STRATEGIC PARTNERSHIPS, & TAX EQUITY	GREATER WILLINGNESS TO PARTNER WITH COMPLEMENTARY ENTITIES ACROSS INVESTMENT, DEVELOPMENT, CONSTRUCTION, AND OPERATIONAL ECOSYSTEMS	PARTNERSHIPS AND JVS REMAIN VIABLE; CROSS-INDUSTRY PARTNERSHIPS EMERGING

RISK	CURRENT STATE	TREND	OUTLOOK
TECHNICAL RISK	PROTOTYPICAL, EVOLUTIONARY, & PROVEN OPTIONS AT ALL SCALES	AI, BIG DATA, AND INTERNET CONTINUE INCREASING THEIR ROLE IN EVERYDAY OPERATIONS	OEM COUNTERPARTY RISK REMAINS REAL; WORKMANSHIP AND DEFECTS CONTINUE PRESENTING CHALLENGES; CYBER RISK CONTINUES TO EVOLVE

RISK	CURRENT STATE	TREND	OUTLOOK
TECHNOLOGY RISK	SOLAR, WIND, (B)ESS, HYDRO, NUCLEAR, WASTE-TO-X, GEOTHERMAL, CCUS, LNG, RNG, SAF, AND MORE	CCUS INCREASING ITS ROLE; DISTRIBUTED RENEWABLES AND MICROGRIDS GAINING POPULARITY	SMR, HYDROGEN, FUSION, AND FUSION ON THE NEAR HORIZON; ADVANCED SUPERCONDUCTORS AND OTHER ADVANCED MATERIALS COULD DRIVE MASSIVE EFFICIENCY GAINS

OPPORTUNITIES TO GROW

HIGHLIGHTING TECHNOLOGIES WITH GROWTH POTENTIAL IN THE CPS PORTFOLIO

HYDROGEN	HYDROELECTRIC	GEOTHERMAL	HEAT PUMPS
TECH: ELECTROLYSIS SEPARATES WATER INTO HYDROGEN AND OXYGEN	TECH: RESERVOIR WATER FLOWS THROUGH TURBINE TO DRIVE GENERATOR	TECH: UNDERGROUND HEAT TRANSFER TO FLUID TO DRIVE POWER CYCLE	TECH: REVERSIBLE REFRIGERATOR
CO2 EMISSIONS PER MWH: 0 – 280 KG	CO2 EMISSIONS PER MWH: 0 - LOW	CO2 EMISSIONS PER MWH: 0 - LOW	CO2 EMISSIONS PER MWH: 70.8 KG
INSTALLATION COST (\$/MW): \$2,000,000	INSTALLATION COST (\$/MW): \$3,241,000	INSTALLATION COST (\$/MW): \$7,143,000 - \$11,112,000	INSTALLATION COST (\$/MWH): \$30.4
IRA ELIGIBLE? YES	IRA ELIGIBLE? YES	IRA ELIGIBLE? YES	IRA ELIGIBLE? YES
TX-SPECIFIC RISKS? NO	TX-SPECIFIC RISKS? DROUGHT	TX-SPECIFIC RISKS? MINERAL VS. SURFACE RIGHTS	TX-SPECIFIC RISKS? NO

Marsh

OPPORTUNITIES TO GROW

HIGHLIGHTING TECHNOLOGIES WITH GROWTH POTENTIAL IN THE CPS PORTFOLIO

LNG	RNG	SAF	WASTE-TO-X
TECH: LIQUIFY NATURAL GAS AT EXTREMELY COLD TEMPS	TECH: BIOGAS THAT HAS BEEN PURIFIED	TECH: UNDERGROUND HEAT TRANSFER TO FLUID TO DRIVE POWER CYCLE	TECH: VARIOUS CO2 EMISSIONS PER MWH:
CO2 EMISSIONS PER MWH: 751 KG	CO2 EMISSIONS PER MWH: 191 – 220 KG	CO2 EMISSIONS PER MWH: 0 - LOW	VARIOUS INSTALLATION COST (\$/MW):
INSTALLATION COST (\$/MTPA): \$550,000,000 - \$1,000,000,000+	INSTALLATION COST (\$/MWH): \$225 (IN 2022)	INSTALLATION COST (\$/BPD): \$165,000 (IN 2017)	VARIOUS IRA ELIGIBLE? YES
IRA ELIGIBLE? MAYBE RETROFITS ARE ELIGIBLE	IRA ELIGIBLE? YES TX-SPECIFIC RISKS? NO	IRA ELIGIBLE? YES	TX-SPECIFIC RISKS? NO
TX-SPECIFIC RISKS? MOST GOOD SITES BUILT OR UNDER DEVELOPMENT		TX-SPECIFIC RISKS? NO	

Marsh

OPPORTUNITIES TO GROW

HIGHLIGHTING TECHNOLOGIES WITH GROWTH POTENTIAL IN THE CPS PORTFOLIO

CCUS	SMR	FISSION	FUSION
TECH: UNDERGROUND INJECTION	TECH: HEAT FROM FUEL USED	TECH: HEAT FROM FUEL USED	TECH: ENERGY FROM FUSION
	TO MAKE STEAM AND DRIVE	TO MAKE STEAM AND DRIVE	PROCESS USED TO MAKE
	POWER CYCLE	POWER CYCLE	STEAM TO DRIVE POWER CYCLE
CO2 EMISSIONS PER MWH:	CO2 EMISSIONS PER MWH:	CO2 EMISSIONS PER MWH:	CO2 EMISSIONS PER MWH:
VARIOUS, BUT NEGATIVE	0 - LOW	0 - LOW	0-LOW
INSTALLATION COST (\$/MW):			
\$1,300,000 - \$2,300,000	INSTALLATION COST (\$/MW):	INSTALLATION COST (\$/MW):	INSTALLATION COST (\$/MW):
	\$ 6,471,000 - \$11,836,000	\$6,471,000 - \$11,836,000	UNKNOWN
IRA ELIGIBLE? YES			
	IRA ELIGIBLE? YES	IRA ELIGIBLE? YES	IRA ELIGIBLE? YES
TX-SPECIFIC RISKS? RESERVOIR AVAILABILITY; CO2 USED FOR EOR	TX-SPECIFIC RISKS?	TX-SPECIFIC RISKS?	TX-SPECIFIC RISKS?
	NIMBY-ISM	NIMBY-ISM	UNKNOWN

Marsh



NAVIGATING THE ENERGY TRANSITION IS HARD.

THERE ARE MANY RISKS TO UNDERSTAND AND CONTROL.

CPS HAS A PLAN BUT WILL NEED OBJECTIVE METRICS AND PERFORMANCE INDICATORS.

CPS HAS OPPORTUNITIES FOR IMPROVEMENT AND TO EXPAND ITS PLAN IN THE COMING YEARS AS PART OF ACHIEVING ITS GOALS.

MARSH ADVISORY REMAINS AVAILABLE TO SUPPORT CPS WITH ENTERPRISE RISK MANAGEMENT SOLUTIONS, CONTRACT REVIEW, ESG CONSULTING, CARBON ACCOUNTING, CONSTRUCTION ADVISORY, EDUCATION, AND MORE.

GLOSSARY

TERMS AND ACRONYMS (IN ORDER OF APPEARANCE)

T	TONS (MASS)
C02	CARBON DIOXIDE
MWH	MEGAWATT-HOUR (POWER)
EIA	US ENERGY INFORMATION ADMINISTRATION
0EM	ORIGINAL EQUIPMENT MANUFACTURER
0&M	OPERATIONS & MAINTENANCE
K&R	KIDNAP & RANSOM INSURANCE
D&0	DIRECTORS & OFFICERS INSURANCE
ВТА	BUSINESS TRAVEL ACCIDENT INSURANCE
WC	WORKERS' COMPENSATION INSURANCE
EL	EMPLOYER'S LIABILITY INSURANCE
DIC/DIL	DIFFERENCE-IN-CONDITIONS/DIFFERENCE IN LIMITS INSURANCE
IM	INLAND MARINE INSURANCE



TERMS AND ACRONYMS (IN ORDER OF APPEARANCE)

STP	STOCK THROUGHPUT INSURANCE
Y/Y	YEAR-OVER-YEAR
BESS	BATTERY ENERGY STORAGE SYSTEM
ESS	ENERGY STORAGE SYSTEM (GENERIC OR TECHNOLOGY-AGNOSTIC)
EV	ELECTRIC VEHICLE
IRR	INTERNAL RATE OF RETURN
PE	PRIVATE EQUITY
PPA	POWER PURCHASE AGREEMENT
DEFI	DECENTRALIZED FINANCE
PPP	PUBLIC-PRIVATE PARTNERSHIPS
JV	JOINT VENTURE
Al	ARTIFICIAL INTELLIGENCE OR AUGMENTED INTELLIGENCE
CCUS	CARBON CAPTURE AND UTILIZATION OR STORAGE



TERMS AND ACRONYMS (IN ORDER OF APPEARANCE)

SMR	SMALL MODULAR (NUCLEAR) REACTOR
MW	MEGAWATT (ENERGY)
IRA	INFLATION REDUCTION ACT
LNG	LIQUEFIED NATURAL GAS
KG	KILOGRAM
МТРА	MILLION TONS PER ANNUM
RNG	RENEWABLE NATURAL GAS
SAF	SUSTAINABLE AVIATION FUEL
BPD	BARRELS PER DAY (1 BARREL = 42 GALLONS)
EOR	ENHANCED OIL RECOVERY
NIMBY	NOT IN MY BACKYARD





EVOLVE: ARTIFICIAL INTELLIGENCE (AI)

PRESENTED BY:
EVAN O'MAHONEY
Chief Information Officer



November 12, 2024
Informational Update

AGENDA



- Al Landscape
- Al Framework & Strategy Development
- Risk Considerations
- GenAl Roadmap & Milestones

Formulating our strategy and establishing governance will mitigate risks and support our ability to capitalize on GenAl opportunities.

AI LANDSCAPE

ALIGNED TO OUR DIGITAL STRATEGY

CDS

Established Use Cases

MACHINE LEARNING | ROBOTIC PROCESS AUTOMATION | EVIDENCED BASED REASONING

- Market Price Forecaster
- Vegetation Management
- Storm Outage Prediction
- Underground Cable Failure Detector
- Cyber Security Detection
- Accounts Payable Automation
- · Overloaded Transformer Dashboard



GenAl

THE ARTIFICIAL INTELLIGENCE CONTINUUM

Leveraging Internal & External Partners to Inform Strategy Development

FORRESTER®







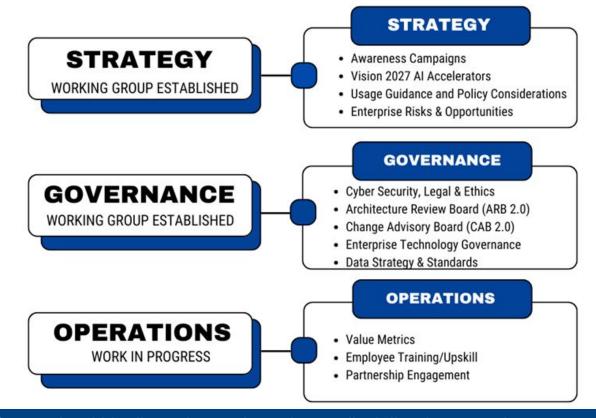


Artificial Intelligence is actively leveraged as a tool to enhance internal efficiencies and support data-informed decision-making across various operational teams.

AI FRAMEWORK



ENSURING DIGITAL GOVERNANCE TO DELIVER VALUE



Generative AI is disruptive and requires a disciplined approach to strategy and framework through which use cases will be prioritized and successfully deployed.

STRATEGY EXECUTION PROGRESS



AWARENESS CAMPAIGN



- GenAl Strategy and approach presented in several functional all-hands and leadership meetings.
- Conducted three-day onsite workshops on potential GenAl use cases with Microsoft.
- Regular meetings with change leaders and stakeholders to educate on GenAl use cases, training materials, cyber security and enterprise risks, all of which are contributing as policy inputs.

PROGRAM ACCELERATORS



- Market research and utility industry adoption identified productivity-focused GenAl use cases.
- IT Virtual Agent: Chat bot for internal IT service desk to address technical support requests.
- Microsoft Copilot: Select pilot to enhance use of Microsoft productivity suite (e.g. Microsoft Office), to include training content development.

POLICY & GOVERNANCE



- GenAl Policy drafted with input from internal and external subject matter experts, including legal, cybersecurity, compliance, people & culture, and industry research organizations.
- ARB 2.0 Development: Incorporation of evaluation process within an updated framework to formalize adoption of GenAl standards and best practices.

RISKS & OPPORTUNITIES

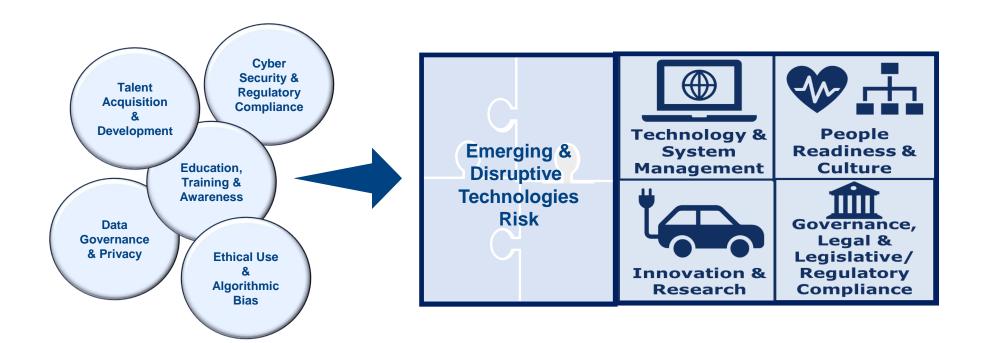


- GenAl Risk Framework: Developing a framework to formalize risk evaluation.
- Embedded GenAl in purchased solutions and platforms remains a challenge to address.
- The next version of the Architecture Review Board (ARB 2.0) is in development and will establish technology standards and best practices for GenAI.

Working groups and external inputs have informed all aspects of our strategy development, Including security risk framework, policy creation, and training content development.

RISK CONSIDERATIONS ALIGNMENT WITH ENTERPRISE RISKS

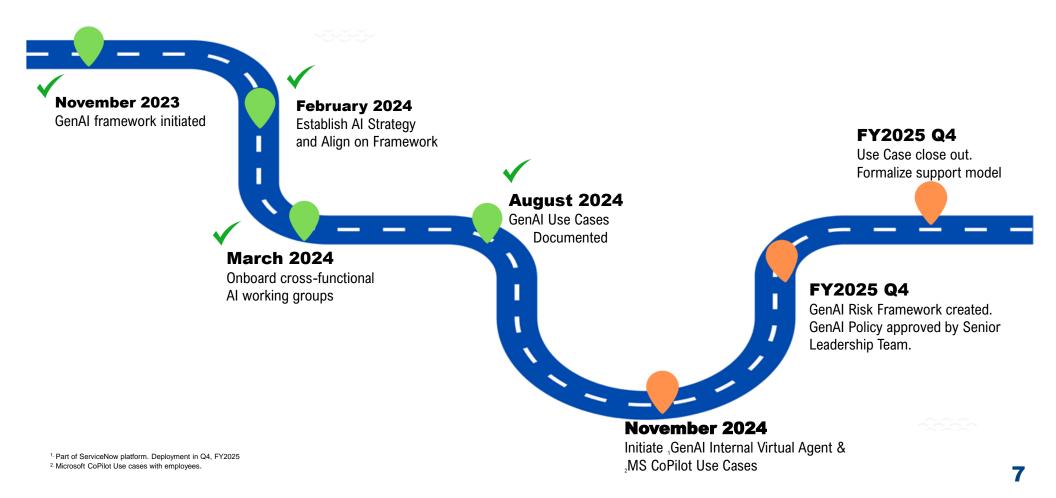


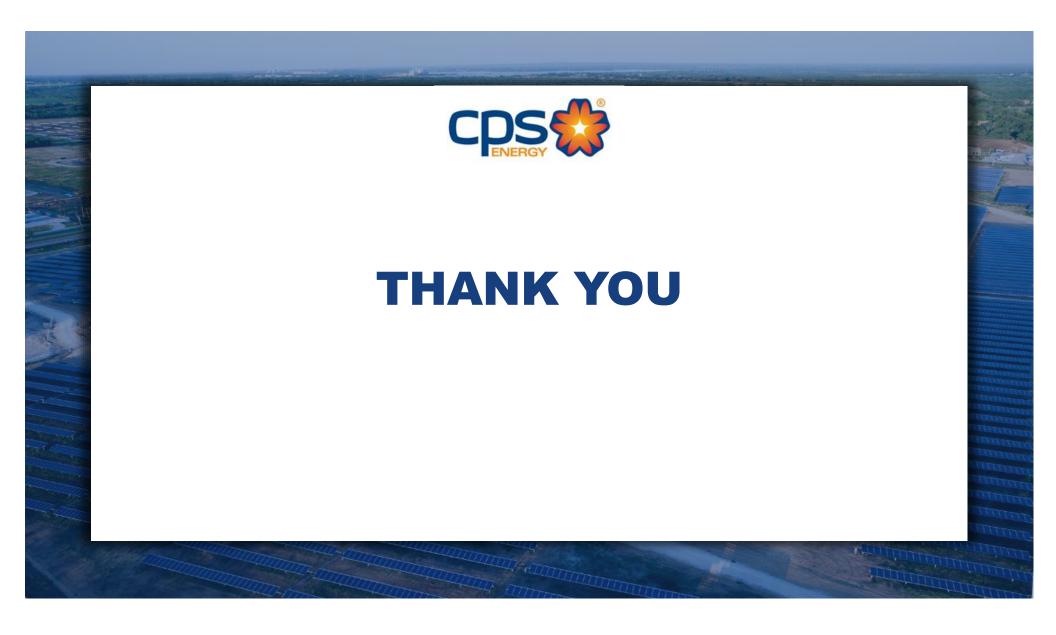


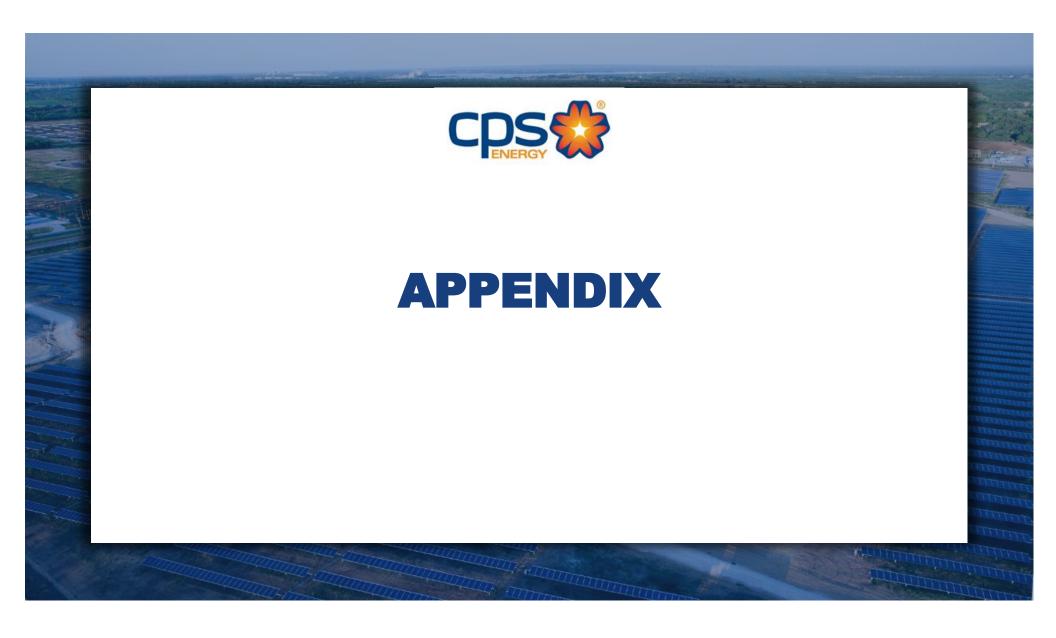
Leveraging advancements in technology, such as GenAI, can significantly help us deliver value to our customers and community, but risks must be managed effectively.

GenAl ROADMAP & MILESTONES









GLOSSARY / DEFINITIONS



ACRONYM OR WORD	DEFINITION	ACRONYM OR WORD	DEFINITION
Al	Artificial Intelligence	MS	Microsoft
Al Accelerator	Initiative where AI will be a good fit to achieve CPS Energy vision	Co-Pilot	Microsoft AI Productivity Tool
ARB	Architecture Review Board	T&D	Transmission and Distribution
САВ	Change Advisory Board	EIT	Enterprise Information Technology
сотѕ	Commercial Off the Shelf Solution	ESMO	Energy Supply and Market Operations
OCR	Optical Character Reader	SME	Subject Matter Expert
SLT	Senior Leadership Team		
T&R	Technology & Resiliency		

GLOSSARY / DEFINITIONS



ACRONYM OR WORD	DEFINITION	ACRONYM OR WORD	DEFINITION
General Al	Can behave in a human like way across all tasks.	Generative AI GenAI	Used to generate outputs that resembles human created content like text, images, music, computer code and designs
Narrow AI	Designed to perform specific tasks.	Machine Learning	Used to make predictions or decisions leveraging data and algorithms
Statistical Machine Learning	Using statistical techniques to develop models that can learn from data and make predictions or decisions.		
Natural Language Processing	Gives computers the ability to understand, interpret, manipulate, and generate human language that is contextually relevant		
Evidence-based Reasoning	Uses credible and relevant information to support your claims, arguments, or decisions.		

CPS ENERGY AI CORE TEAM

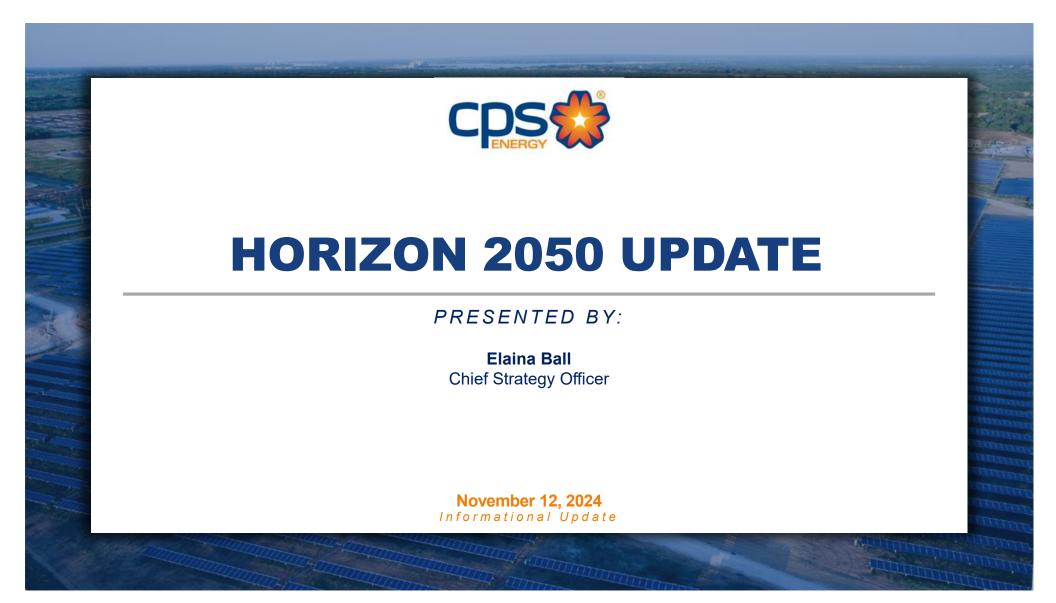


AI POLICY TEAM

- Anand Vedapuri EIT
- Samantha Pixley EIT
- Jonathan Homer Integrated Security
- Brandon Pixley Integrated Security
- Devi Kumar-Nambiar Legal Services
- Curt Brockmann Compliance & Ethics
- Bob Stevens Compliance & Ethics
- Veronica Wycoff People & Culture
- Kari Meyer Govt and Reg Affairs & Public Policy
- AnnaMarie Rangel Enterprise Risk Management
 & Solutions

AI ACCELERATOR TEAM

- Anand Vedapuri EIT
- Samantha Pixley EIT
- Jonathan Homer Integrated Security
- Jonathan Tijerina Corporate Development
- Kevin Pollo Energy Supply & Market Operations
- Ann Kinnard Customer Experience
- Christen Waggoner Customer Experience Operations
- LeeRoy Perez T&D Engineering & Grid Transformation



AGENDA



- Stakeholder Engagement Roadmap
- Horizon 2050 Framework
- Stakeholder Feedback to Date
- Feedback Trends
- Horizon 2050 Survey
- Q&A

Horizon 2050 update including preliminary stakeholder feedback.



Engagement, Focus Groups, and

Employee Town Hall

STAKEHOLDER ENGAGEMENT

Strategic Communication Tactics



Connecting, listening, and engaging to drive our mission forward.

Employee Roadshows, Board of

Trustees Engagement, and Workshops

STRATEGIC FRAN



HORIZON 2050

A COMMUNITY **EMPOWERED** FOR GENERATIONS 0 3 TO SAFELY POWER OUR COMMUNITY WITH S RELIABLE, SUSTAINABLE ENERGY AT A COMPETITIVE PRICE. 0 Z SUSTAINABILITY RELIABILITY COMPETITIVE PRICE × \dashv Ш OFFER MORE DIVERSIFY OUR ENERGY DEVELOP AN AGILE AND Z AFFORDABLE ENERGY RESOURCES TO PROVIDE Z RESILIENT SYSTEM TO MEET VS. SIMILAR CITIES \triangleright CLEANER ENERGY TO ALL CHANGING DEMAND AND EVOLVING CUSTOMER NEEDS ACHIEVE TOP CUSTOMER G SATISFACTION RATINGS 0 11 FINANCIAL RESILIENCY TEAM/BUSINESS EXCELLENCE 0 Z ш STAY RESILIENT AND COMPETITIVELY INVEST IN AND BELIEVE IN ALL TEAM Z PRICED FOR OUR COMMUNITY MEMBERS, EVERY DAY X Z \triangleright BE GOOD STEWARDS OF OUR COMMUNITY'S OPTIMIZE LEARNING, SYSTEMS, TECHNOLOGY INVESTMENT IN ENERGY AND TOOLS TO DEVELOP OUR PEOPLE AND DELIVER VALUE FOR OUR COMMUNITY

STAKEHOLDER FEEDBACK TO DATE



Total Engagement Feedback: 2,307

Horizon 2050 Survey Results

Employees: 1,038Community: 711

Additional Focus Groups: 558

Our vision statement is liked overall by both the community (87%) and employees (90%).

TOP 3 GOALS	COMMUNITY	EMPLOYEES			
1 st Reliability	55%	67%			
2 nd Competitive Price	20%	11%			
3 rd	Sustainability 10%	Team/Business Excellence 10%			





Horizon 2050 community pop-up at Hardberger Park (top) and Partners in Power event (bottom).

FEEDBACK TRENDS



CONSISTENT FINDINGS AS OF 11/4/2024

RELIABILITY

#2

COMPETITIVE PRICE

#3

TEAM / BUSINESS EXCELLENCE

#4

SUSTAINABILITY

#5

FINANCIAL RESILIENCY

> Reliability

- · Consistently top priority across stakeholders
- Major event restoration expectations

> Affordability/Cost

- Consistently the second most important priority among stakeholders
- Some large customers are willing to pay higher rates for higher reliability

Increase in partnership, transparency with CPS Energy

- Large customers stressed the capability and skill of our team members
- Seeking more partnership, innovation and even more transparency for their growing power needs
- Desire for more flexibility and options from us

FEEDBACK TRENDS



CONSISTENT FINDINGS AS OF 11/4/2024

RELIABILITY

#2

COMPETITIVE PRICE

#3

TEAM / BUSINESS EXCELLENCE #4

SUSTAINABILITY

#5

FINANCIAL RESILIENCY

➤ Sustainability

- Sustainability is an important but polarizing theme
- · Qualitative and quantitative surveys indicate that it is not as important as reliability, cost & service
- · Demographic and geographic trends
- Customers seek more tools/tips to conserve energy

≻ Other Key Themes

- Safety strong recommendation to include in Business/Team Excellence
- Innovation/leadership
- Simplify language where possible







HORIZON 2050 SURVEY



Charter Created: 07/25/2011 Last Revised: <u>xx/</u>11/<u>xx</u>07/20<u>2</u>18

CPS Energy Board of Trustees

RISK MANAGEMENT COMMITTEE CHARTER

I. Role of the Risk Management Committee

The Risk Management Committee, a standing committee of the CPS Energy Board of Trustees ("Board"), provides oversight to ensure that internal and external enterprise risks that might adversely affect the organization are appropriately identified and mitigated-addressed.

II. Authority

The Risk Management Committee is authorized to consult with and review information from CPS Energy management and other relevant sources in order to become familiar with and provide oversight and guidance concerning CPS Energy's business enterprise risks and its risk management practices. The kinds of risk to be considered include, but are not limited to, financial risk, fuel source generation diversity, the existing and future regulatory climate, investment risk, and emerging utility riskstrends for all these types of risks. The Committee is authorized to assess review these risks. The Committee is also authorized to and make recommendations concerning any actions within the scope of its responsibility that it feels are necessary to enhance or improve CPS Energy's risk exposure profile and/or risk management practices.

III. Committee Membership

The Risk Management Committee shall consist of all Board members. Appointment of the Chair of the Committee shall be approved at least biennially by the full Board.

IV. Meetings

The Risk Management Committee shall meet at least two (2) times per calendar year. Additional meetings shall be scheduled as considered necessary by the Committee or Committee Chair. All members are expected to attend each meeting. The Committee may invite members of management or others to attend meetings and provide pertinent information, as necessary. The Committee may also conduct meetings in executive session as warranted and as permitted by law. Minutes of meetings will be prepared by staff and approved by the Board at a regularly scheduled Board meeting.

Charter Created: 07/25/2011 Last Revised: <u>xx/</u>11/<u>xx</u>97/20<u>2</u>18

V. Responsibilities

The Risk Management Committee is tasked with the following responsibilities:

- Ensure the Enterprise Risk Management Program includes standard practices and procedures that allows for the identification, assessment, and mitigation of enterprise risks.
- Meet periodically with management to relevant control of the rest of the risk profile and risk management practices, as well as the effectiveness of the risk program. Matters Documents that may be reviewed include, but are not limited to:
 - Enterprise Risk Register; Strategic and enterprise level risks
 - Rrisk Mmitigation plans; and Program
 - Ccurrent and emerging risk topics impacting CPS Energy's strategy, goals, and objectives.
- Ensure the principal risks to CPS Energy's enterprise risks business are identified, relevant, and managed through appropriate mitigation plans, are in place to manage these risks. The Committee will meet with Enterprise Risk Management & Solutions (ERMS) as needed and evaluate the information provided regarding the effectiveness of the program and the risk mitigations in place.
- Recommend potential risk topics to be discussed as Risk Management Committee open and/or executive sessions to the Committee Chair. The Committee Chair will assist in developing the topics for the Risk Management Committee agenda.
- Periodically rReview and assess the adequacy of the Risk Management Committee Charter annually, requesting Board approval for proposed changes and approve any necessary changes.
- Confirm annually that all responsibilities outlined in the Charter have been sufficiently fulfilled.

This Charter of the Risk Management Committee of the CPS Energy Board of Trustees is hereby approved this 7th day of November 2018, and updated on this day of 2024.

Charter Created: 07/25/2011 Last Revised: xx/xx/2024

CPS Energy Board of Trustees

RISK MANAGEMENT COMMITTEE CHARTER

I. Role of the Risk Management Committee

The Risk Management Committee, a standing committee of the CPS Energy Board of Trustees ("Board"), provides oversight to ensure that internal and external enterprise risks that might adversely affect the organization are appropriately identified and mitigated.

II. Authority

The Risk Management Committee is authorized to consult with and review information from CPS Energy management and other relevant sources to become familiar with and provide oversight and guidance concerning CPS Energy's enterprise risks and its risk management practices. The kinds of risk to be considered include, but are not limited to, financial risk, generation diversity, the existing and future regulatory climate, investment risk, and emerging utility risks. The Committee is authorized to review these risks, and make recommendations concerning any actions within the scope of its responsibility that it feels are necessary to enhance or improve CPS Energy's risk exposure and/or risk management practices.

III. Committee Membership

The Risk Management Committee shall consist of all Board members. Appointment of the Chair of the Committee shall be approved at least biennially by the full Board.

IV. Meetings

The Risk Management Committee shall meet at least two (2) times per calendar year. Additional meetings shall be scheduled as considered necessary by the Committee or Committee Chair. All members are expected to attend each meeting. The Committee may invite members of management or others to attend meetings and provide pertinent information, as necessary. The Committee may also conduct meetings in executive session as warranted and as permitted by law. Minutes of meetings will be prepared by staff and approved by the Board at a regularly scheduled Board meeting.

Charter Created: 07/25/2011 Last Revised: xx/xx/2024

V. Responsibilities

The Risk Management Committee is tasked with the following responsibilities:

- Ensure the Enterprise Risk Management Program includes standard practices and procedures that allows for the identification, assessment, and mitigation of enterprise risks.
- Review CPS Energy's enterprise risks and risk management practices.
 Documents that may be reviewed include, but are not limited to:
 - o Enterprise Risk Register;
 - o risk mitigation plans; and
 - current and emerging risk topics impacting CPS Energy's strategy, goals, and objectives.
- Ensure CPS Energy's enterprise risks are identified, relevant, and managed through appropriate mitigation plans.
- Recommend potential risk topics to be discussed as Risk Management Committee open and/or executive sessions to the Committee Chair. The Committee Chair will assist in developing the topics for the Risk Management Committee agenda.
- Review and assess the adequacy of the Risk Management Committee Charter annually, requesting Board approval for proposed changes.
- Confirm annually that all responsibilities outlined in the Charter have been sufficiently fulfilled.

This	Charter	of the	e Risk	Manage	ment	Committee	of	the	CPS	Energy	Board	of
Trust	ees is he	ereby a	approve	ed this 7 th	day c	of Novembe	r 20)18,	and up	odated o	n this _	
dav o	f 2	024.										