CPS ENERGY BOARD OF TRUSTEES NOTICE OF REGULAR MEETING

Notice is hereby given that the CPS Energy Board of Trustees will hold its <u>Regular Monthly Meeting on Monday</u>, <u>December 19, 2022 at 1:00 p.m.</u> in the Board Room located on the First Floor of the CPS Energy headquarters located at 500 McCullough, San Antonio, Texas. The Regular Board meeting will also be live-streamed.

The subject of this meeting is to act upon all matters pertaining to the current management and operation of the municipal electric and gas systems, including the acquisition of real property and interest therein by purchase and condemnation, the facilities, financing, the handling and administration of funds and accounts, consideration of matters relating to operations and administration and such other matters as may be brought before the meeting by the Trustees of the Board, and specifically those matters referred to in the attached agenda, which is incorporated herein.

The meeting will be streamed on cpsenergy.com.

Those wishing to speak on an agenda item during the Public Comment portion of the meeting must register between Wednesday, December 14, 2022 at 5:00 p.m. and Friday, December 16, 2022 at 1:00 p.m. CT. Registration may be made by email at **publiccommentregistration@cpsenergy.com** or by phone at **(210) 353-4662**. Those registering to speak should be prepared to provide the following information:

Agenda item # listed on the Agenda (any

Any required translation services

are speaking

item other than #1, 2 or 3) about which they

- First & last name
- City & state of residence
- Phone number
- Email address
- Group for which the individual is speaking, if applicable
- Commenters will be called to speak in the order that each registers.

Written comments may be sent to **publiccommentregistration@cpsenergy.com** and will be shared with the Board prior to the start of the meeting.

The agenda packet is attached and can be found with other related informational material at:

https://www.cpsenergy.com/en/about-us/who-we-are/trustees/board-meetings.html

A recording of the meeting will be available to the public in accordance with the Open Meetings Act upon written request.

At any time during the Board Meeting, and pursuant to the provisions of Chapter 551 of the Texas Government Code, the Board may meet in executive session for consultation concerning attorney-client matters under Section 551.071; for deliberations and other authorized action on real property under Section 551.072; on prospective gifts or donations under Section 551.073; on personnel under Section 551.074; on security personnel or devices under Section 551.076; on economic development negotiations under Section 551.087; to deliberate, vote, or take final action on competitive matters under Section 551.086; to deliberate regarding security audits and devices under Section 551.089; or to deliberate under Texas Government Code Section 418.183(f) about confidential information under the Texas Homeland Security Act.

Shanna M. Ramirez Secretary of the Board December 14, 2022



REVISED

CPS ENERGY BOARD OF TRUSTEES MEETING TO BE HELD ON DECEMBER 19, 2022 AT 1:00 PM LOCATION: CPS ENERGY BOARD ROOM (500 MCCULLOUGH AVE)

At any time during the Board Meeting, and pursuant to the provisions of Chapter 551 of the Texas Government Code, the Board may meet in executive session concerning:

 attorney-client matters under Section 551.071;
 deliberations and other authorized action on real property under Section 551.072;
 deliberations, voting or taking final action on competitive matters under Section

Deliberations and other dationized action of real property ander set
 prospective gifts or donations under Section 551.073;

personnel under Section 551.074;

• security personnel or devices under Section 551.076;

deliberations, voting or taking final action on competitive matters under Section 551.086;
deliberations regarding security audits and devices under Section 551.089; or

and the

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deliberations regarding security auaits and devices under section 351.003, or function of the section sec

AGENDA

			122							
ITEM	ТОРІС	ACTION	اب PRESENTER/ SPONSOR							
1	CALL TO ORDER	Execute	Dr. Willis Mackey							
2	SAFETY MESSAGE, INVOCATION & PLEDGE OF ALLEGIANCE	Execute	Ms. Melissa Carrillo Cox							
3	PUBLIC COMMENT Pre-Registration is from Wednesday, December 14, 2022 5:00 PM – Friday, December 16, 2022 1:00 PM. Dial (210) 353-4662 or email PublicCommentRegistration@CPSEnergy.com	Discuss	Dr. Willis Mackey							
UPDATI	ON CHAIR'S PRIORITIES									
4	CHAIR'S REMARKS	Discuss	Dr. Willis Mackey							
5	CEO'S REPORT	Discuss	Mr. Rudy Garza							
6	RATE ADVISORY COMMITTEE (RAC) UPDATE	Discuss	Dr. Francine Romero							
7	MONTHLY PERFORMANCE UPDATE & RESOLUTION SUPPORTING CPS ENERGY PLAN TO MITIGATE CUSTOMER DEBT	Discuss & Possible Vote	Ms. DeAnna Hardwick							
8	GOVERNANCE – DUTIES OF THE BOARD REGARDING CPS ENERGY EMPLOYEE BENEFIT PLANS	Discuss	Ms. Debra Wainscott							
CONVE	NE TO EXECUTIVE SESSION	1								
9	EXECUTIVE SESSION : Please see the narrative list at the top of this agenda for the potential discussion topics.	Discuss	Dr. Willis Mackey							
RECON	VENE TO OPEN SESSION									
CONSE	NT AGENDA									
10	APPROVAL OF CONSENT ITEMS: A. Payment to the City of San Antonio for November 2022 B. Procurements Items: I. General Services: Electric Overhead and Underground Temporary Permanent Electric Vote Dr Services (Mr. Richard Medina) Procuremental Services: Competitively Sensitive Item (Mr. Benny Ethridge) A. General Services: Competitively Sensitive Item (Mr. Evan O'Mahoney)									

REGUL/	AR AGENDA		
11	 COMMITTEE REPORTS: A. Operations Oversight Committee (OOC) meeting held on 11/10/2022 (Dr. Francine Romero) B. Nominations Committee meeting held on 12/06/2022 (Dr. Willis Mackey) 	Discuss	Dr. Willis Mackey
12	RATE ADVISORY COMMITTEE (RAC) GENERATION PLANNING RECOMMENDATION (Mr. Reed Williams, RAC Chair)	Discuss	Dr. Francine Romero
13	GENERATION PLANNING	Discuss	Ms. Kathy Garcia
14	ADJOURNMENT	Execute	Dr. Willis Mackey

If the Board meeting has not adjourned by 3:55 PM, the presiding officer may 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.

THE REGULAR MEETING OF THE CPS ENERGY BOARD OF TRUSTEES WILL BE FOLLOWED DIRECTLY BY A MEETING OF THE RISK MANAGEMENT COMMITTEE (RMC)



GOVERNANCE – DUTIES OF THE BOARD REGARDING CPS ENERGY EMPLOYEE BENEFIT PLANS

PRESENTED BY: Debra Wainscott

Chair, Administrative Committee VP, People & Culture

December 19, 2022

Informational Update





- GOVERNANCE OVERVIEW
- INVESTMENT PRACTICES & PERFORMANCE REPORT REQUIRED UNDER TEXAS LAW

Our objective today is to discuss Pension Plan governance and obtain your guidance on next steps.



PENSION PLAN GOVERNING BODY TEXAS GOVERNMENT CODE SEC. 802.001

"Governing body of a public retirement system means the board of trustees, pension board, or other public retirement system governing body that has the fiduciary responsibility for assets of the system and has the duties of overseeing the investment and expenditure of funds of the system and the administration of benefits of the system."

> The Administrative Committee is the "Governing Body" of the CPS Energy retirement plan & has the fiduciary responsibility for the plan assets.

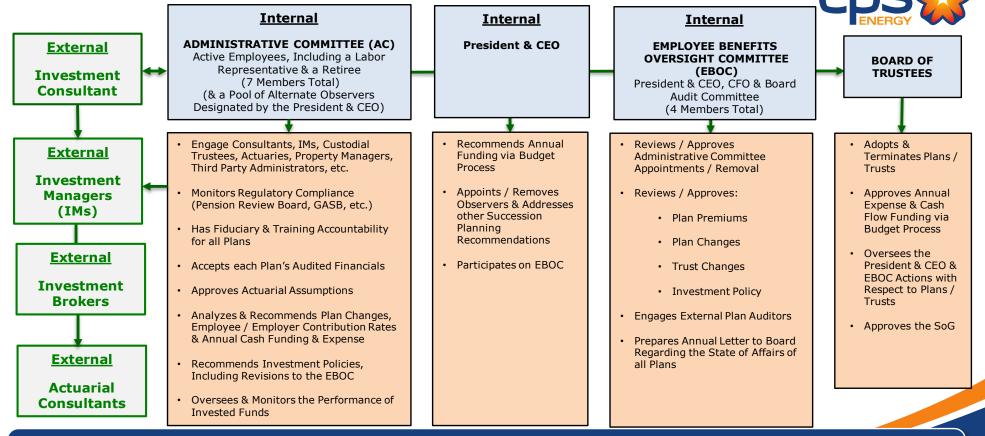
DUTIES OF ADMINISTRATIVE COMMITTEE

As the **governing body** for the CPS Energy benefit plans, the Administrative Committee is statutorily responsible for:

- administration of benefits of the system
- employing an actuary and reviewing actuarial valuations
- appointing investment managers and monitoring investments
- ensuring annual audit is completed
- publishing annual financial report and performance reports
- registering with the Texas Pension Review Board
- completing training required by the Texas Pension Review Board
- all the other fiduciary and oversight responsibilities

The duties and responsibilities of the Administrative Committee are set by state statute.

STATEMENT OF GOVERNANCE



This governance structure is consistent with Texas law, utilizing a pension review committee for detailed administration that reports out to you.

5

INVESTMENT PRACTICES & PERFORMANCE REPORT TEXAS GOV'T CODE SEC. 802.109



- Texas law requires public pension plans of our size to:
 - Obtain an independent Investment Practices & Performance Evaluation every three years.
 - Select an independent firm with substantial experience to evaluate investment practices and performance, and make recommendations for improvement.
- The Administrative Committee (AC) engaged Champion Capital Research this year to conduct the independent assessment for 2022, early in the new year, with a report due to the AC in May 2023.

The Administrative Committee will report the results of the independent review to you as soon as possible in 2023.

INVESTMENT PRACTICES & PERFORMANCE REPORT 2019 REVIEW



- The prior review was conducted in 2020. It *identified no nonconformities*.
- Provided several opportunities for improvement (OFIs), in the form of Investment Policy enhancements, which included:
 - Clarification of third-party roles and responsibilities and objective criteria for related selection and performance-monitoring.
 - Monitoring and reporting of investment-related performance.
 - $_{\odot}$ Monitoring and reporting of investment-related fees.

Opportunities for Improvement from the prior review were incorporated in the plan's governance, policy documents, and administrative practices.

TAKEAWAYS & NEXT STEPS



- The current governance model is consistent with Texas law, and the Administrative Committee acts as the Governing Body.
- A deep dive into additional topics can be performed by the EBOC at your direction.





Thank You



CPS Energy Board of Trustees Meeting December 19, 2022

Α

Approval of Payment to the City of San Antonio for November 2022

The New Series Bond Ordinance that took effect February 1, 1997 provides for a total cash payment to the City of San Antonio (City) in an amount not to exceed 14% of gross revenue as calculated pursuant to such Ordinance, less the value of other services provided to the City, with the percentage (within the 14% limitation) to be determined by the governing body of the City. The cash transfer to the City for the month of November 2022 is based on actual gross revenue per the New Series Bond Ordinance of \$197,112,293.38, less applicable exclusions. The revenue for the month of November 2022 is calculated as follows:

Gross revenue per CPS Energy financial statements	
Electric revenue	\$196,116,895.27
Gas revenue	28,086,739.95
Interest and other income	8,548,602.80
Gross revenue per CPS Energy financial statements	232,752,238.02
Excluded revenue	
School and hospital revenue per City Ordinance 55022	(8,071,443.00)
LVG revenue per City Ordinance 100709	(246 <i>,</i> 875.60)
Fuel cost component of off-system nonfirm	
energy sales per City Ordinance 61794	
and revenue for wholesale special contracts	(12,402,539.32)
Noncash and other income, GASB 31	
investment market value change, miscellaneous	
interest income, gas billing adjustment and unbilled	
revenue	(14,919,086.72)
Total excluded revenue	(35,639,944.64)
Gross revenue per New Series Bond Ordinance subject to	
14% payment to the City	\$197,112,293.38
City payment per Bond Ordinance for November 2022	
based upon November 2022 revenue	\$27,595,721.07
City payment per memorandum of understanding (MOU)	
regarding wholesale special contracts	363,303.49
Wholesale Special Contract Annual True Up	0.00
City Payment reduction per gas customer billing adjustment MOU	(12,500.00)
City payment per Bond Ordinance plus adjustments for	
memorandums of understanding	27,946,524.56
Utility services provided to the City for November 2022	(2,802,291.87)
Net amount to be paid from November 2022 revenue to	
the City in December 2022	\$25,144,232.69

CPS Energy Board of Trustees Meeting December 19, 2022

Comparison of City payment per Bond Ordinance (plus adjustments for memorandums of understanding) vs. Budget before deduction for utility services provided to the City:

(Dollars in thousands)

November 2022	Actual	Budget	Variance				
Current Month* A	\$27,947	\$26,841	\$1,106	4.1%			
Year-to-Date*	\$376,282 **	\$328,628	\$47,654 **	14.5%			

* This amount does not include any additional funding authorized by the Board of Trustees.

** Includes a rounding adjustment of \$1 to agree to correctly rounded YTD amount.

Approval of the following resolution is requested:

"**BE IT RESOLVED** by the CPS Energy Board of Trustees that payment to the City of San Antonio in the amount of \$25,144,232.69 representing 14% of applicable system gross revenues for the month of November 2022, such payment being net of City utility services (\$2,802,291.87), is hereby approved."



CPS Energy Board of Trustees Meeting December 19, 2022 APPROVAL of PROCUREMENT ITEMS Table of Contents

1. Item Description:

Purchase Category: Supplier: Electric Overhead and Underground Temporary and Permanent Electric Services General Services Chain Electric Company HJD Capital Electric, Inc

Approval:

Lisa D. Lewis

Approval:

Lisa Lewis, Chief Administrative Officer Rudy Garla, President & CEC



CPS Energy Board of Trustees Meeting December 19, 2022 Procurement Form 1

Item Description	Electric Overhead and Underground Temporary and
	Permanent Electric Services
Purchase Order Value	\$ 20,000,000
Purchase Category	General Services
Department	Resource Management
VP Construction & Maintenance Services	Darrell Clifton
EVP Energy Delivery Services	Richard Medina

Detailed Description

CPS Energy staff recommend that a contract be awarded to Chain Electric Company a local, non-diverse firm, and HJD Capital Electric, Inc. a local, diverse firm as the respondents who will provide the goods or services at the best value for CPS Energy based on the evaluation criteria set forth below.

This recurring contract is for installation and removal of temporary and permanent Underground Residential Distribution ("URD") services and meters. Temporary installation and removal services are currently being executed by contractors only. This contract will allow CPS Energy to continue to meet the high demand of CPS Energy customer need by dates for new services without delay. This contract will expire on July 31, 2026.

Subcontracting Opportunities

Chain Electric Company has committed to subcontracting at least 20% of overall spend to the following diverse businesses:

- Bartek Construction is a local, small business providing underground digging operations in soil, sand, and rock.
- Bexar Pipeline & Utilities is a local, small business providing underground digging operations in soil, sand, and rock.

The solicitation method for this procurement was a Request for Proposals. An evaluation team considered the following weighted evaluation criteria to determine the best value to CPS Energy.

Evaluation Criteria	Points
Experience and qualifications to perform the Services	31
The overall cost	21
Safety records and training program	20
The financial soundness of the Respondent	10
Economic Development (local & diverse consideration)	10
The ability to meet CPS Energy's requirements	8
TOTAL	100



CPS Energy Board of Trustees Meeting December 19, 2022 Procurement Form 1

	Recommended Respondent(s) & Award													
Respondent Name	SBA Classification & Details	Score	PO Value	PO #	Comments									
Chain Electric	Local/Non-Diverse	90	\$10,000,000	2204327										
HJD Capital Electric, Inc	Local/Diverse (Small, Hispanic American-Owned)	75	\$10,000,000	2204328										
		\$20,000,000												

Three (3) additional respondents were not recommended for award: Source Power, LLC.; Pike Electric, LLC.; and FNT Services dba Quality Power Distribution.

	Annual Funds Budgeted													
Corporate Annual Budget	Funding Method	Projected FY2023 PO Spend	% of FY2023 Annual Corp Budget	Projected FY2024 PO Spend	Projected FY2025 PO Spend	Projected FY2026 PO Spend	Projected FY2026 PO Spend							
\$832,904,076	Capital	\$500,000	0.06%	\$5,700,000	\$5,700,000	\$5,700,000	\$2,400,000							
\$729,676,030	Non-Fuel O&M	\$0	0%	\$0	\$0	\$0	\$0							

Our current approved budget and latest estimates support these new purchase orders.





OPERATIONS OVERSIGHT COMMITTEE (OOC) MEETING

EXECUTIVE SUMMARY AND CHAIR REPORT FROM THE NOVEMBER 10, 2022 MEETING PREPARED FOR COMMITTEE CHAIR, DR. FRANCINE ROMERO FOR REPORT AT THE DECEMBER 19, 2022 BOARD OF TRUSTEES MEETING

The Operations Oversight Committee met on November 10, 2022. As part of the agenda, the Committee:

- A. Approved meeting minutes from the prior meeting held on August 19, 2022.
- B. Received an update on the Operational Efficiency Review that included:
 - a. An update from Daymark Energy Advisors
 - b. And an update from Gallup, Inc.
- C. Received a presentation on the Update on Equity-Focused STEP Programs that included:
 - a. A discussion on Energy Burden
 - b. An update on the shift from a single prime contractor to multiple prime vendors
 - c. An overview of enhancements to the Weatherization Program & the new multifamily offering
 - d. And a discussion on solar accessibility for low- & moderate-income customers
- D. Received a Procurement preview for:
 - a. A purchase order increase for residential electric meters
- E. Received an update on FY2024 Performance Measures that included:
 - a. An overview of the move to simplified Enterprise Performance Measures
 - b. And a review of the proposed FY2024 measures

The next meeting of the Operations Oversight Committee meeting is TBD.



NOMINATIONS COMMITTEE (NC) MEETING

EXECUTIVE SUMMARY AND CHAIR REPORT FROM THE DECEMBER 06, 2022 MEETING

PREPARED FOR COMMITTEE CHAIR DR. WILLIS MACKEY

FOR REPORT AT THE DECEMBER 19, 2022 BOARD OF TRUSTEES MEETING

The Nominations Committee met on December 06, 2022. As part of the Nominations Committee Meeting agenda, the Committee:

- A. Nominated Vice Chair Gonzalez to serve as the next Chair at the conclusion of Chair Dr. Mackey's term on January 31, 2023.
- B. Nominated Trustee Dr. Romero to serve as the Vice Chair, at the conclusion of Vice Chair Gonzalez's term on January 31, 2023.



GENERATION PLAN RECOMMENDATIONS

PRESENTED BY:

Kathy Garcia

VP, Govt & Reg Affairs & Public Policy

December 19, 2022

Informational Update

AGENDA



2

- OUR PATHWAY
- GENERATION PLANNING OBJECTIVES
- OUR PLANNING APPROACH
- PORTFOLIO OVERVIEW & RECOMMENDATIONS
- INFLUENTIAL FACTORS

Our objective today is to present an update on our generation planning process & discuss potential options.

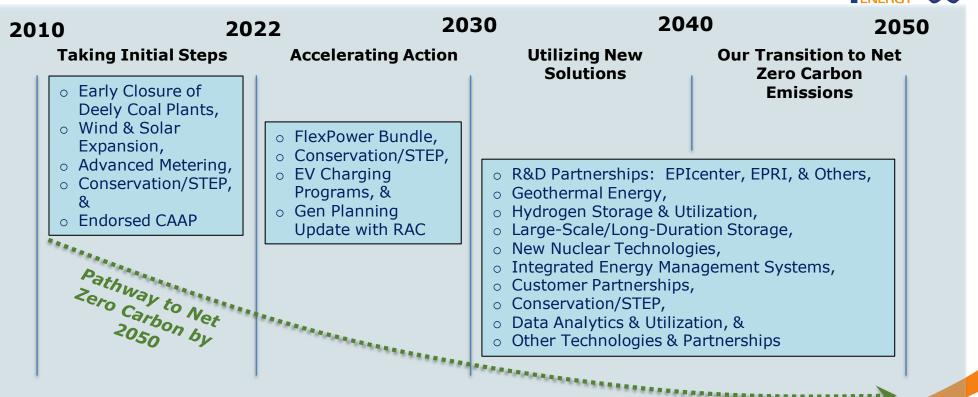
OUR COMMITMENT HOST COMMUNITY CONVERSATION ON ENERGY SUPPLY

- Gain Rate Advisory Committee (RAC) & community feedback in the energy planning process
- Achieve the objectives of community Climate Action & Adaptation Plan (CAAP)
- Analyze a comprehensive list of options to gain broad perspectives
- Initial focus is on transitional needs through 2030, next we will leverage developing technologies to achieve the 2050 CAAP goal

Our goal this planning cycle is to ensure reliable, affordable, & sustainable energy resources through 2030.

3

PATHWAY TO 2050 OUR TRANSITION TO NET ZERO CARBON EMISSIONS



A blend of proven technologies & timely commercialization of new generation & storage technologies is our path to net zero carbon by 2050.

PLANNING OBJECTIVES IN ORDER OF RAC PRIORITY*





CPS Energy considers all objectives equally critical to serving our customers.

* CPS Energy Financial Stability was moved to a model requirement based on input from the RAC & is not shown

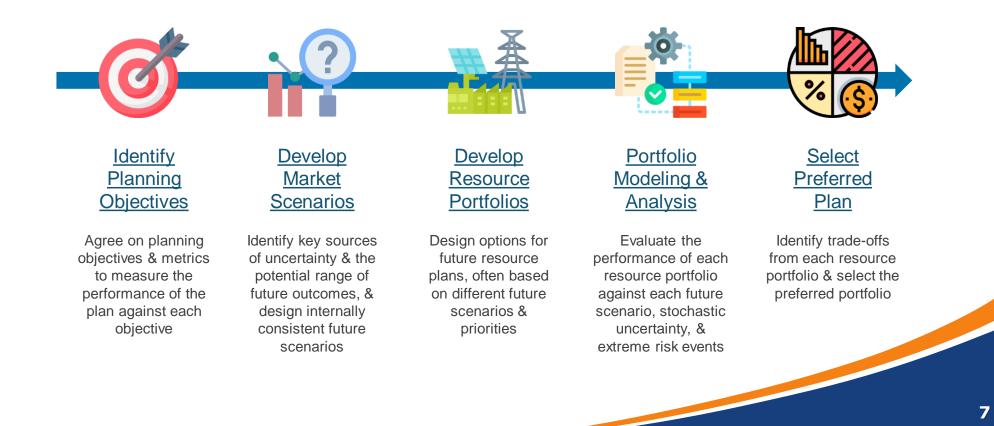
ROBUST PLANNING PROCESS LEVERAGING BROAD PERSPECTIVES & EXPERTISE



- Engaged consultants with broad expertise supporting utilities in comprehensive generation resource planning
- Jointly developed 9 portfolios, each with a diverse set of technologies to serve the expected energy demand
- Analyzed 50 data sets, across 4 market scenarios & sensitivities like extreme weather & conservation/STEP
- Detailed feedback/input from the Rate Advisory Committee shaped the planning process
- Focused on near-term ability to replace 2,100 MW of retiring fossil-fuel power plants by 2030
- Further our strategy to reduce carbon intensity

POWER GENERATION RESOURCE PLANNING APPROACH





PORTFOLIO METRIC RESULTS



8

	System Reliability & Climate Resiliency					Environmental Sustainability				Aff	ordability		System Fl	lexibility	Workforce Impact		
	Diversity of Generation Mix	Capacity Head- room		e Weather posure	Progress		s City of bals	SA CAAP	Energy Co	st (\$/MWh)		(PV) Revenue ements	Market Purchases	Dispatch- ability	CPS Energy Workforce Impact	Local Economic Impact	
	Generation Mix (MWh)	Expected Reserve Margin (%)	Rev. Req. Extreme Weather (\$Billion)	% Of CPS Energy Consumption That Is Met Through ERCOT Market Purchases	% CO2 Intensity Reduction Relative To 2016 (Ref Scenario)	Inter	ssion nsity 2/MWh)	% Reduction In Consumption Due To STEP	Reference Scenario Average Cost (\$/MWh)	Range In Cost In <u>All</u> Scenarios (\$/MWh)	Ref Scenario (\$Billion)	Range Across <u>All</u> Scenarios (\$Billion)	% Of CPS Energy Consumption That Is Met Through ERCOT Market Purchases	% Of CPS Energy Capacity That Is Dispatchable	# Of Impacted CPS Energy Generation Employees	Capital Expenditures For New Generation Capacity Built In Greater San Antonio Area (\$Millions)	
	2030	2030	2030	2030	2030	2030	2040	2030	2023	- 2030	2023 – 2030	2023 – 2030	2030	2030	2030	2023 – 2030	
P1		13.7%	\$1.70	1.0%	37%	578	547	9.7%	\$58.07	\$52-60	\$8.58	\$7.87-8.58	1%	61%	155	\$2,758	
P2		15.7%	\$2.04	3.1%	44%	518	350	9.7%	\$60.04	\$55-63	\$8.85	\$8.19-8.99	4%	57%	170	\$2,004	
P3		14.5%	\$3.26	12.8%	65%	321	161	9.7%	\$60.58	\$56-63	\$8.90	\$8.36-8.98	13%	46%	345	\$1,310	
P4		15.3%	\$2.02	6.1%	30%	641	361	9.7%	\$59.16	\$53-61	\$8.72	\$7.99-8.72	7%	63%	90	\$1,787	
P5		15.0%	\$3.28	13.5%	65%	325	161	9.7%	\$60.47	\$55-62	\$8.88	\$8.23-8.88	13%	46%	355	\$866	
P6		13.2%	\$3.27	19.6%	78%	200	31	9.7%	\$65.34	\$61-69	\$9.54	\$9.07-9.68	18%	39%	355	\$4,041	
P7		13.1%	\$3.34	19.7%	78%	202	35	9.7%	\$65.96	\$61-69	\$9.63	\$9.14-9.76	18%	39%	355	\$4,041	
P8		15.4%	\$2.79	11.2%	59%	378	160	9.7%	\$60.67	\$55-62	\$8.92	\$8.20-8.92	11%	48%	295	\$548	
P9		14.6%	\$2.69	7.9%	60%	371	160	9.7%	\$58.64	\$54-59	\$8.65	\$8.04-8.65	9%	46%	295	\$548	
- Nuclear - Gas Toll - Storage	al Wind Solar Other Legend																

PORTFOLIO SCORING DETAIL

Environmental Sustainability

1. Assigned metric scores per the scale

System Reliability & Climate Resiliency

- 2. Calculated an average score by Objective
- 3. Calculated a unweighted total score by Portfolio

	Diver-	Capacity Head-			Progress Towards City of SA CAAP Goals				EnergyCost (\$/MWh) Present Value (PV) Revenue Requirements			Nadat Davidance Disastabab itta		CPS Energy Local Economic			
Portfolios	sity of Genera-tion Mix	room	Extreme Wea	ather Exposure		Progress Towards Ci	ty of SA CAAP Goals		EnergyCo	st (\$/M Wh)	Present Value (PV) H	levenue Requirements	Market Purchases	Dispatchability	Workforce Impact	Impact	l
101010100				%of CPS Energy	%CO2 Intensity	Emission	Intensity	%reduction in consumption due to	Reference Scenario		Ref Scenario		%of CPS Energy	%of CPS Energy	# of Impacted	Capital expenditures for new generation	Į
	Generation Mix (MWh)	Expected Reserve Margin (%)	e Rev. Req. Extreme Weather (\$Billion)	consumption that is met through ERCOT market purchases	Reduction Relative to 2016 (Ref Scenario)	(Ib CO	2/M Wh)	STEP	Average Cost	Range in Cost in <u>all</u> Scenarios (\$/MWh)	(\$Billion)	Range Across <u>all</u> Scenarios (\$Billion)	consumption that is met through ERCOT market purchases	Capacity that is Dispatchable	CPS Energy Generation Employees	capacity built in greater San Antonio area	
						0000	10040		(\$/MWh)	- 2030			-			(\$Millions)	
P1	2030	2030 2	2030 4	2030 4	2030 See Note 1	2030	1	2030 4	4	2030	2023-2030 See Note 2	2023-2030 2	2030 4	2030 4	2030	2023-2030 3	
P1 P2	2	4	4	4	See Note 1	1 2	2	4	2	2	See Note 2	2	4	4	3	3	
P2 P3	3	2	4	4	See Note 1	3	2	4	2	2	See Note 2	4	4	4	1	2	
P3 P4	2	4	4	3	See Note 1	1	2	4	4	2	See Note 2	4	4	4	4	2	
P5	3	4	- 1	2	See Note 1	3	3	4	2	4	See Note 2	2	2	2	1	1	
P6	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	1	1	1	4	
P7	2	1	1	1	See Note 1	4	4	4	1	2	See Note 2	4	 1	1	1	4	
P8	4	4	2	2	See Note 1	3	3	4	2	2	See Note 2	2	2	2	2	1	
P9	4	2	2	3	See Note 1	3	3	4	4	4	See Note 2	4	4	2	2	1	
Portfolios	System I	Reliability 8	k Climate R	esiliency	Env	ironmenta	l Sustainal	bility	Affordability				System F	Flexibility	Workforce Impact		Total Score
P1		2.	75			2.	00		2.67			4.00		3.00		14.42	
P2		3.	50			2.67				2.00			4.00		3.00		15.17
P3		2.	00			3.	33		2.67			2.00		1.	50	11.50	
P4		3.	25			2.	33		2.67			4.00		3.	00	15.25	
P5			50			3.	33				67			00		00	11.50
P6		1.	25			4.	00			2.	33		1.0	00		50	11.08
P7	1.25 4.00							2.33			1.00		2.	50	11.08		
P8	3.00 3.33								2.00				2.00			50	11.83
P9		2.	75	_		3.	33			4.	00		3.	00	1.	50	14.58
Notes:																	
1. % CO2 intensit	y metric was no	t used since it	is redundant to	CO2 intensity i	n lb/MWh.												

2. Reference PV of Revenue Requirements in \$B was not used since it is redundant to Reference Average Cost in \$/MWh.

2 3 4

Workforce Impact

9

Note: Refer to Portfolio Metric Results Scorecard

Affordability

<u>Scale</u>

PORTFOLIO SELECTION



10

		Ot	ojectives			
	Reliability & Resiliency	Environmental Sustainability	Affordability	Flexibility	Workforce	Total Score
P1	2.75	2.00	2.67	4.00	3.00	14.42
P2	3.50	2.67	2.00	4.00	3.00	15.17
Р3	2.00	3.33	2.67	2.00	1.50	11.50
Ρ4	3.25	2.33	2.67	4.00	3.00	15.25
Р5	2.50	3.33	2.67	2.00	1.00	11.50
P6	1.25	4.00	2.33	1.00	2.50	11.08
P7	1.25	4.00	2.33	1.00	2.50	11.08
P8	3.00	3.33	2.00	2.00	1.50	11.83
P9	2.75	3.33	4.00	3.00	1.50	14.58

- P1, P2, P4, & P9 are most aligned with the objectives.
- P3, P5, P6, P7, & P8 are least aligned with the objectives.

ALIGNED PORTFOLIOS P1, P2, P4, & P9



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	System R	Resiliency	Environmental Sustainability					Aff	ordability		System Fle	exibility	Workforce Impact			
	Diversity of Generation Mix	Seneration Head- Extreme Weather Progress Toward			s City of bals	SA CAAP	Energy Cost (\$/MWh)		Present Value (PV) Revenue Requirements		Market Purchases	Dispatch- ability	CPS Energy Workforce Impact	Local Economic Impact		
	Generation Mix (MWh)	Expected Reserve Margin (%)	Rev. Req. Extreme Weather (\$Billion)	% Of CPS Energy Consumption That Is Met Through ERCOT Market Purchases	% CO2 Intensity Reduction Relative To 2016 (Ref Scenario)	Inter	ssion nsity 2/MWh)	% Reduction In Consumption Due To STEP	Reference Scenario Average Cost (\$/MWh)	Range In Cost In <u>All</u> Scenarios (\$/MWh)	Ref Scenario (\$Billion)	Range Across <u>All</u> Scenarios (\$Billion)	% Of CPS Energy Consumption That Is Met Through ERCOT Market Purchases	% Of CPS Energy Capacity That Is Dispatchable	# Of Impacted CPS Energy Generation Employees	Capital Expenditures For New Generation Capacity Built In Greater San Antonio Area (\$Millions)
	2030	2030	2030	2030	2030	2030	2040	2030	2023	- 2030	2023 – 2030	2023 – 2030	2030	2030	2030	2023 – 2030
P1		13.7%	\$1.70	1.0%	37%	578	547	9.7%	\$58.07	\$52-60	\$8.58	\$7.87-8.58	1%	61%	155	\$2,758
P2		15.7%	\$2.04	3.1%	44%	518	350	9.7%	\$60.04	\$55-63	\$8.85	\$8.19-8.99	4%	57%	170	\$2,004
P4		15.3%	\$2.02	6.1%	30%	641	361	9.7%	\$59.16	\$53-61	\$8.72	\$7.99-8.72	7%	63%	90	\$1,787
P9		14.6%	\$2.69	7.9%	60%	371	160	9.7%	\$58.64	\$54-59	\$8.65	\$8.04-8.65	9%	46%	295	\$548

Benefits & risks are examined in the following slides.

Gas Toll

Geothermal

Hydrogen

. Wind

Coal Gas
 Solar Other
 Energy Efficiency

Legend				
Less Favorable	More Favorable			

P1 – GAS GAS ADDITIONS



Benefits	Risks		
 Higher energy availability in normal & extreme conditions Reduced market exposure More dispatchable generation Includes flexible gas technologies 	 Greater risk of natural gas availability issues & price volatility 		
 One of the lower-cost portfolios; especially in extreme weather Leveraging Spruce 2 infrastructure with gas conversion 			
	 Does not meet CAAP 2030 (+6%) or 2040 targets (+105%) 		
Low impact on our workforceGreater local economic impact			
Reliability & Flexibility Affordability Sustainability Workforce Impact			

P2 – BLEND GAS, SOLAR, WIND & STORAGE ADDITIONS



Benefits	Risks	
 Lower risk in extreme weather Reduced market exposure More dispatchable generation Includes flexible gas technologies 	 Some risk of natural gas availability & price volatility 	
 One of the lower-cost portfolios; especially in extreme weather Leveraging Spruce 2 infrastructure with gas conversion 		
• Meets 2030 CAAP target (-5%)	 Does not meet 2040 CAAP target (+31%) 	
Reduced impact on our workforceGreater local economic impact		
Reliability & Flexibility Affordability Sustainability Workforce	e Impact	

P4 – BLEND (RETAINS COAL) GAS, SOLAR, & STORAGE ADDITIONS



Benefits	Risks
 Retains greater energy security Lower risk in extreme weather Reduced market exposure Greater dispatchable generation 	
One of the lower-cost portfolios; especially in extreme weather	 Potential for additional environmental regulations
	 Does not meet CAAP 2030 (+18%) or 2040 (+35%) targets
Lower impact on our workforceGreater local economic impact	
Reliability & Flexibility Affordability Sustainability Morkforce	Impact

P9 – RENEWABLES WIND, SOLAR, & STORAGE ADDITIONS



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Benefits	Risks	
 Retains some existing dispatchable gas generation Retains Spruce 2 infrastructure with gas conversion for 7 years 	 Less dispatchable generation Greater energy availability risk in normal & extreme conditions 	
 One of the lower-cost portfolios due to lower capital investment 	 Higher cost exposure in extreme weather events due to increased market purchases 	
 Lower carbon intensity Meets 2030 (-32%) & 2040 (-40%) CAAP targets 		
	High impact on our workforceSmall local economic impact	
Reliability & Flexibility Affordability Sustainability Workforce Impact		

P2 & P9 ARE MOST VIABLE RETIRE COAL & ACHIEVE 2030 CAAP TARGET



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- P2 offers increased reliability, affordability & retains our experienced workforce to support our lower-carbon transition
- P2 will require continuous evolution to meet 2040 CAAP target
- P9 allows us to meet CAAP 2030/2040 without new technology
- P9 challenges our ability to ensure reliability during extreme weather conditions - more prevalent in recent years as disruptive climate events have increased

Regardless of portfolio selected, our plans must respond to an evolving ERCOT market & adapt to leverage new technology.

OTHER FACTORS ON OUR PATH FORWARD

- Adequate rate support
- PUC/ERCOT market changes
- State legislative actions
- EPA/TCEQ permitting & rulemakings
- Supply chain risks
- Geopolitical impacts on energy markets
- Timely approval of individual plant closures by ERCOT
 ERCOT will analyze grid reliability with each plant closure
- Timely commercialization of new generation & storage technologies
 - Geothermal, hydrogen storage, large scale/long duration storage, new nuclear technologies
 - Integrated energy management systems, customer partnerships, conservation/STEP, data analytics & utilization, & others

Carbon neutrality requires a coordinated multi-part plan.

DISCUSSION





DECEMBER 19, 2022 REGULAR BOARD MEETING - REGULAR AGENDA



Thank You

