



# ***PATH FORWARD ON THE GENERATION PLAN***

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*Informational Update*

# AGENDA



- **APPROVED GENERATION PLAN**
- **CHANGES TO EXISTING GENERATION RESOURCES**
- **NEW GENERATION ADDITIONS**

# INTRODUCTION



- On January 23, 2023, the CPS Energy Board of Trustees voted to approve a plan on how to power the San Antonio community through 2030.
- This approved generation plan:
  - ✓ Consists of gas, wind, solar, and storage resource additions
  - ✓ Balances reliability with affordability
  - ✓ Retains experienced workforce to support transition
  - ✓ Retains fuel diversity to manage cost risk
  - ✓ Supports expansion of renewables while providing greater protection from extreme weather risk

**The plan provides reliable, affordable, and environmentally sustainable energy resources through 2030 and retains flexibility as energy policy and emerging technologies evolve.**

# CHANGES TO EXISTING GENERATION RESOURCES

## RETIREMENTS & CONVERSION



Unit	Type	Capacity (MW)	Action	Completion Date
<b>Braunig 1, 2, 3</b>	Gas	859	Retire	March 2025
<b>Sommers 1</b>	Gas	420	Retire	March 2027
<b>Sommers 2</b>	Gas	410	Retire	March 2029
<b>Spruce 1</b>	Coal	560	Retire	December 2028
<b>Spruce 2</b>	Coal	785	Convert to Gas	December 2027
		Total: 3,034		

***ERCOT has been notified of this retirement schedule***

**Coal & Aging Gas units will be phased out by 2029.**

# NEW GENERATION ADDITIONS

## 2023-2030



		Approved Generation Plan Additions*								
		MW	2023	2024	2025	2026	2027	2028	2029	2030
GAS	Spruce 2 Gas Conversion	785	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Combined Cycle Unit	880	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Peaking Phase 1	404	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Peaking Phase 2	404		Implementation	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online
WIND	Wind	500	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online	Generation Online
SOLAR	Phase 1	480	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Phase 2	500	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Phase 3	200			Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online
STORAGE	Phase 1	50	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Phase 2	170	Implementation	Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online	Generation Online
	Phase 3	830			Implementation	Implementation	Implementation	Implementation	Generation Online	Generation Online
			Legend: Implementation				Generation Online			

\*Sequence & timing are optimized to meet system needs. The actual timing of capacity additions may vary.

**Key projects kicking off this year to meet generation need dates.**

# PATHWAY TO 2050

## OUR TRANSITION TO NET-ZERO CARBON EMISSIONS



2010



2022

2030

2040

2050

### Taking Initial Steps

- Early Closure of Deely Coal Plants,
- Wind and Solar Expansion,
- Advanced Metering,
- Conservation/STEP, and
- Endorsed CAAP

### Accelerating Action

- FlexPower Bundle,
- Conservation/STEP,
- EV Charging Programs, and
- Gen Planning Update with RAC

### Utilizing New Solutions

- R&D Partnerships: EPICenter, EPRI, and Others,
- Geothermal Energy,
- Hydrogen Storage & Utilization,
- Large-Scale/Long-Duration Storage,
- New Nuclear Technologies,
- Integrated Energy Management Systems,
- Customer Partnerships,
- Conservation/STEP,
- Data Analytics & Utilization, and
- Other Technologies & Partnerships

### Our Transition to Net-Zero Carbon Emissions

*Pathway to Net-Zero Carbon by 2050*

**A blend of proven technologies, energy efficiency, and timely commercialization of new generation and storage technologies is our path to net-zero carbon by 2050.**

***Questions?***