



WINTER PREPAREDNESS BRIEFING

Presented by:

Benny Ethridge
EVP, Energy Supply

Richard Medina
EVP, Energy Delivery
Services

Richard Lujan
Interim VP, Gas
Solutions

Melissa Sorola
VP, Corporate Communications
& Marketing

November 29, 2022

Informational



AGENDA



- **WEATHER OUTLOOK**
- **WINTER WEATHERIZATION UPDATE**
 - **POWER GENERATION**
 - **TRANSMISSION & DISTRIBUTION**
 - **GAS SOLUTIONS**
 - **COMMUNICATIONS**

Our team will share current efforts to support our community & highlight how we are preparing for upcoming winter conditions.



WINTER PREPAREDNESS - ENERGY SUPPLY (ES)

PRESENTED BY:
Benny Ethridge
EVP, Energy Supply

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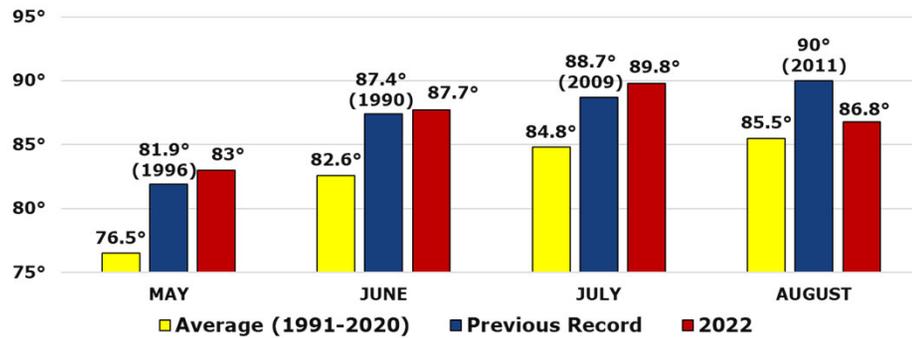
Informational



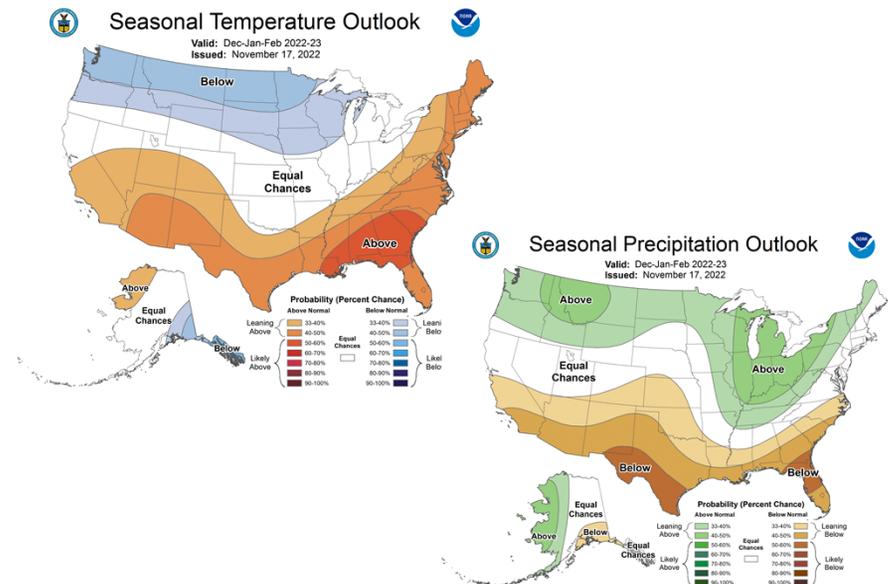
WEATHER OUTLOOK



SUMMER: CHALLENGING HEAT



WINTER: DRIER CONDITIONS



- Record-setting heat & below average rainfall experienced this past summer.
- Warmer & drier conditions on average expected this fall & winter.
- Potential for extreme weather events possible.

ENERGY SUPPLY WINTER PREPAREDNESS



Safety

The diagram is an inverted pyramid with five levels. From top to bottom: 1. Elimination (blue), 2. Substitution (green), 3. Engineering Controls (yellow), 4. Administrative Controls (orange), 5. PPE (red). To the left of the pyramid is a vertical color gradient bar from blue at the top to red at the bottom, labeled "Most effective" at the top and "Least effective" at the bottom. To the right of the pyramid are descriptions for each level: "Physically remove the hazard" for Elimination, "Replace the hazard" for Substitution, "Isolate people from the hazard" for Engineering Controls, "Change the way people work" for Administrative Controls, and "Protect the worker with Personal Protective Equipment" for PPE.

- Cold weather-related injury prevention
- Emergency operations preparation
- Cold weather precipitation awareness

Operational

A photograph of a large industrial power plant facility with several tall smokestacks and complex piping structures under a clear blue sky.

- Weather forecasting
- Market position planning
- Power plant readiness checklists & ERCOT certification

Equipment

A photograph of large industrial equipment, possibly a turbine or generator component, being moved or staged on a concrete surface. A yellow crane is visible in the background.

- Power plant readiness outages
- Inspection, testing, tuning
- Material staging

- Committee on Emergency Preparedness (CEP) milestones complete
- Strengthening Generation Capabilities to Meet Extreme Conditions
 - Enhancing fuel resiliency & strengthening plant weatherization

An enhanced weatherization program is in place to deliver plant reliability during extreme winter weather.

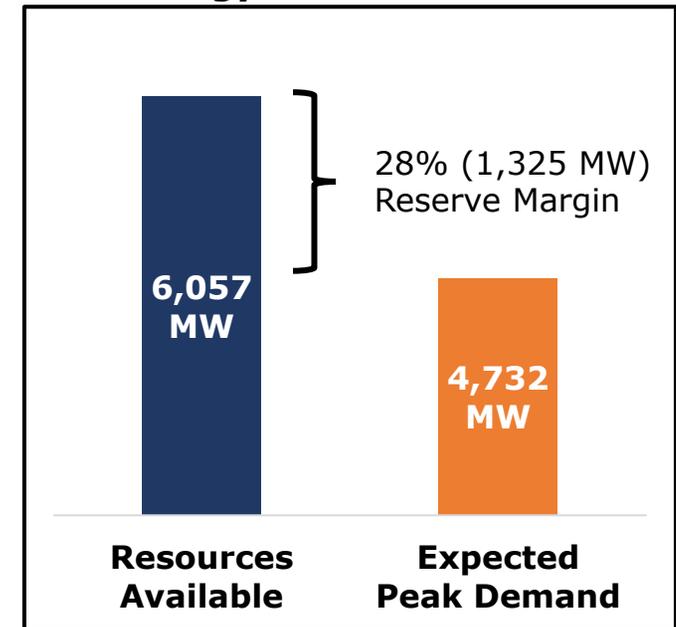
ENERGY SUPPLY

WINTER RESOURCE ADEQUACY



- **ERCOT has not issued its report for winter.**
- **No scheduled outages during winter.**
- **Winter outages will be managed by ERCOT & limited to emergency & low-impact requests.**
- **Natural gas suppliers' weatherization activities will be completed prior to winter run.**

CPS Energy Winter Peak Position



We expect to maintain a strong reserve margin to mitigate the risk of insufficient supply & to meet the needs of our community.



WINTER PREPAREDNESS - ENERGY DELIVERY SERVICES (EDS)

PRESENTED BY:

Richard Medina

EVP, Energy Delivery Services

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Informational



ENERGY DELIVERY SERVICES

WINTER PREPAREDNESS



SAFETY	OPERATIONAL	EQUIPMENT
<ul style="list-style-type: none"> • Cold stress signs • Back-feed hazard awareness • Fire rated clothes layering • Hazardous driving conditions 	<ul style="list-style-type: none"> • System improvements • Refresher training • Load flow analysis • Collaboration with Emergency Ops Center 	<ul style="list-style-type: none"> • Inspections & testing • Identify & correct deficiencies • Inventory checks • 131 Smart switches installed

Employee Preparations



Critical Component Improvements

Equipment Maintenance



We leverage lessons learned to enhance system performance & emergency response during significant events.

ENERGY DELIVERY SERVICES

WINTER PREPAREDNESS



- **Load Shed Enhancements**
 - Increased capacity
 - Smart switches & situational awareness dashboards
- **Training**
 - ERCOT & internal Blackstart
 - Load shed readiness
- **Drills & Exercises**
 - ERCOT
 - Winter & severe weather drill
 - Fall outage coordination
 - Emergency Ops Center
 - Joint natural disaster exercises (severe flooding/tornado/winter storm)



Joint Emergency
Tabletop Exercise

Communication & collaboration are critical components of preparedness.



WINTER PREPAREDNESS - GAS SOLUTIONS (GS)

PRESENTED BY:

Richard Lujan

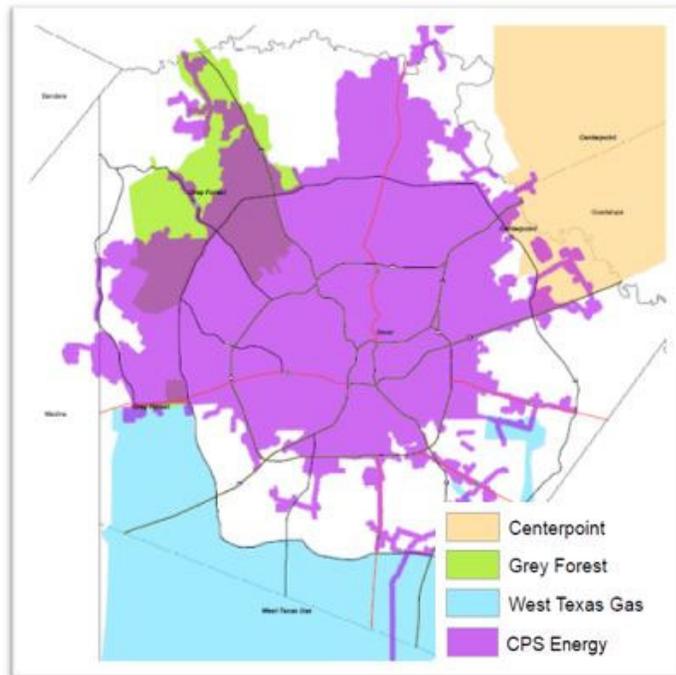
Interim VP, Gas Solutions

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GAS SYSTEM OVERVIEW



- Service area: ~ 863 sq. miles
- Gas customers: 373,998*
- Transmission mains: 89 miles*
- Distribution mains: 5,869 miles*
- Services: 4,350 miles
- Regulated by the Railroad Commission & Pipeline and Hazardous Materials Safety Administration

*as of Jan 31, 2022

CPS Energy is the 4th largest Gas Utility in Texas

NATURAL GAS SYSTEM WINTER PREPARATION



Safety

- Safety training for working & driving in adverse weather conditions
- Personnel protective clothing/equipment checks
- Enhanced public awareness outreach

Operational

- System pressure adjustments for peak gas load conditions based on engineering analysis
- Continued system monitoring
- Gas supply coordination with Energy Supply & Market Operations team
- Review, exercise & update operational response plans

Equipment

- Completion of annual inspections of critical gas pressure control infrastructure
- Gas supply station back-up power equipment checks
- Enhanced power generation gas supply facilities maintenance following 3rd party consultant review



WINTER PREPAREDNESS - COMMUNICATIONS

PRESENTED BY:

Melissa C. Sorola

VP, Corporate Communications & Marketing

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Informational



WINTER PREPAREDNESS UPDATE

WINTER COMMUNICATIONS OBJECTIVES



- Keep customers safe during this winter season and beyond
- Help customers save energy and money through energy efficiency and conservation, especially as natural gas prices remain higher than normal.
- Create ongoing awareness of customer assistance and support for programs/opportunities
- Encourage interaction with our customers through community engagement and social media presence



ENERGY CONSERVATION

	<p>GREEN DAY Everyday Conservation</p>	<ul style="list-style-type: none"> ▶ Set thermostat to 78° in summer, 68° in winter ▶ Use fans to feel 4-6 degrees cooler ▶ Run ceiling fans counterclockwise in summer & clockwise in winter 	<ul style="list-style-type: none"> ▶ Close shades & blinds; turn off unnecessary lights ▶ Unplug electronics when not in use ▶ Try cooking on a grill & line-drying clothes when possible
	<p>YELLOW DAY Peak Energy Demand</p>	<ul style="list-style-type: none"> ▶ Continue everyday conservation measures ▶ Check our website & social media for times between 2-10PM when increased conservation is needed ▶ Adjust thermostats further to minimize A/C & heater use, if health permits 	<ul style="list-style-type: none"> ▶ Avoid using large appliances like your oven, washer, dryer, & dishwasher ▶ Charge Electric Vehicles (EV) at night, after 10PM
	<p>ORANGE ALERT Energy Grid Reliability Risk</p>	<ul style="list-style-type: none"> ▶ Limit power usage ▶ Prepare for possible loss of power ▶ Prepare to implement your household plan for power emergencies 	<ul style="list-style-type: none"> ▶ Be ready to initiate plan for alternative operation of medical devices, if needed ▶ Turn off pool pumps ▶ Avoid charging EV, or charge overnight
	<p>RED ALERT Controlled Outages in Progress</p>	<ul style="list-style-type: none"> ▶ Implement emergency preparedness measures ▶ Turn off all appliances & lights during power outages ▶ Turn A/C & heater off until after power is restored ▶ Monitor news sources for updates 	<ul style="list-style-type: none"> ▶ Implement plan for alternative operation of medical devices ▶ Keep refrigerator closed to extend the life of perishable food

Winter communications will build from lessons learned from summer campaign and customer feedback. Paid, earned, shared and owned strategies are rooted in transparent and proactive communications.

WINTER PREPAREDNESS UPDATE

COMMUNICATIONS ENHANCEMENTS



- Developing additional tips and gas safety videos to prepare customers for the winter season and year-round
- Create understanding for the potential for high winter bills
- Engaging influencers to help communicate how customers can be prepared
- Incorporating Chief Meteorologist and weather-related content
- Enhancing stakeholder communications
 - Dedicated communications person for stakeholder communications
 - Digital toolkits
- Strengthening bilingual communication efforts
- Ongoing calls to action to sign up for mass communications alerts/notifications



CPS Energy displays recent winterization efforts as hard freeze looms



WINTER PREPAREDNESS UPDATE

TRAINING & PARTNERSHIPS



- Continued partnership with CoSA, County, SAWS and others
- Completed trainings in FY2022
 - TEEEX Tabletop – Heavy rains/flash flooding - 08/04/22
 - COSA SA OEM Tabletop with CISSA – 09/28/22
 - CPS Energy – Oil Spill Management – 11/07/22
 - TEEEX - Joint Natural Disaster Exercise – 11/16/22

CPS Energy
Feb 3 at 16:47

City of San Antonio - Municipal Government · Follow
Feb 3 at 16:02

Tune in at 5:00 p.m.! City of San Antonio, Bexar County, CPS Energy, SAWS and VIA officials discuss their coordinated winter weather response efforts with local media.

Winter Weather Response Update
MEDIA AVAILABILITY
Thursday, February 3, 2022 at 5:00 p.m.
LIVE @COSAGOV
sanantonio.gov/tvsa
TVSA CHANNEL AT&T 99 | Spectrum 21 Grande 20 | Digital Antenna 16.1



Partnerships and joint exercises are part of our communications preparedness.



Thank You

