



# ***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

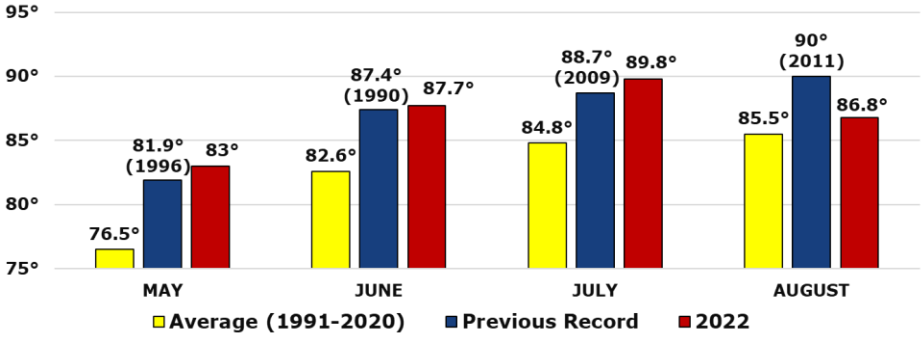
November 29, 2022

*Informational*

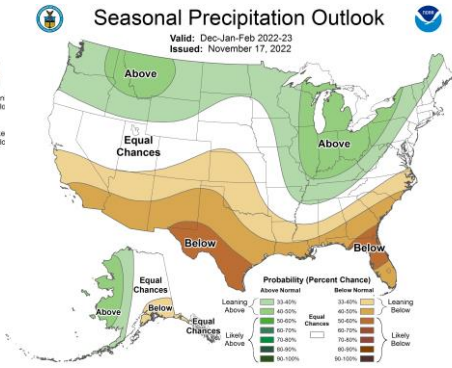
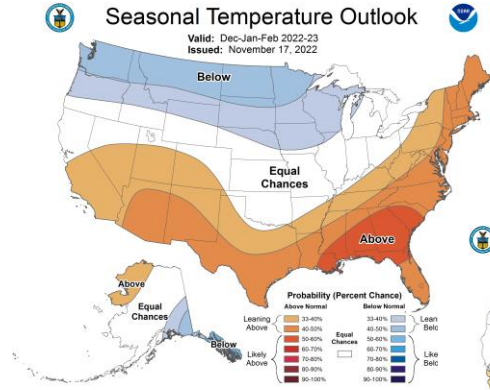
# WEATHER OUTLOOK



## SUMMER: CHALLENGING HEAT



## WINTER: DRIER CONDITIONS

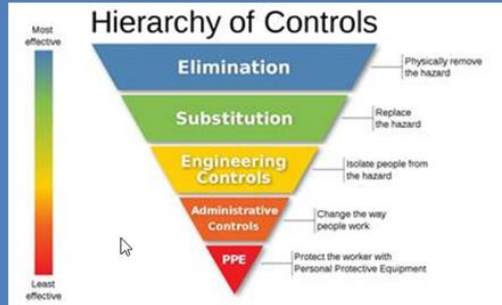


- Record-setting heat & below average rainfall experienced this past summer.
- Warmer & drier conditions on average expected this fall & winter.
- Potential for extreme weather events possible.

# ENERGY SUPPLY

## WINTER PREPAREDNESS

### Safety



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

### Operational



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

### Equipment



- 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

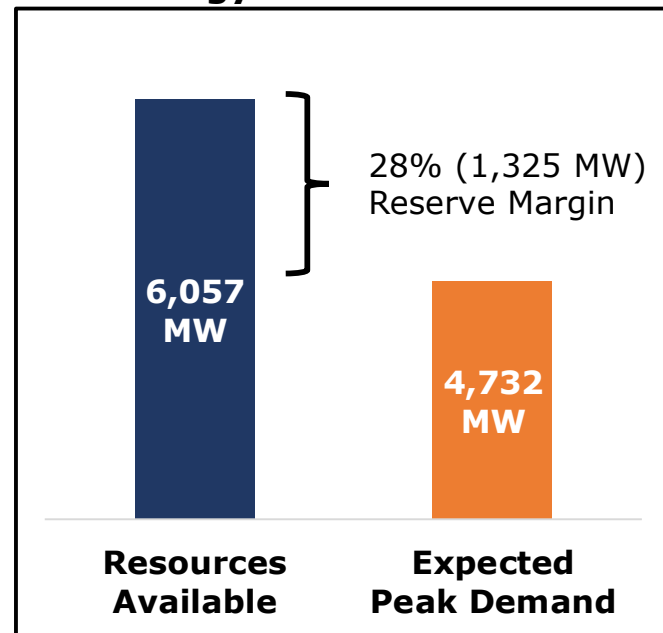
**An enhanced weatherization program is in place to deliver plant reliability during extreme winter weather.**

# 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

November 29, 2022

*Informational*

# ENERGY DELIVERY SERVICES

## WINTER PREPAREDNESS



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

**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:*

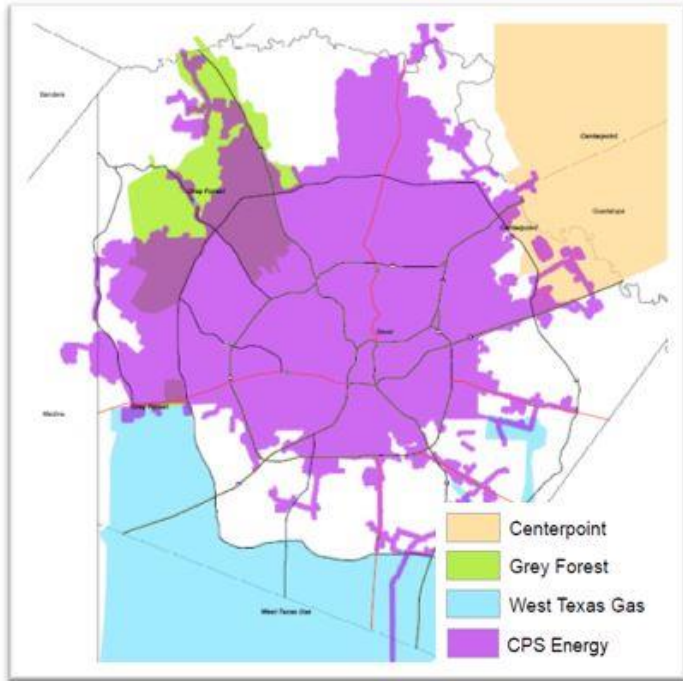
**Richard Lujan**

Interim VP, Gas Solutions

November 29, 2022

*Informational*

# 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 4<sup>th</sup> 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

November 29, 2022

*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

### CPS ENERGY ENERGY CONSERVATION

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

**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
  - TEEX 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
  - TEEX - Joint Natural Disaster Exercise – 11/16/22



**Partnerships and joint exercises are part of our communications preparedness.**





***Thank You***