

Severe Cold Weather Events & Critical Infrastructure in Texas

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Related Categories: Resource highlights

February 15, 2022, marks the one-year anniversary of the severe winter event that struck Texas. Our librarians have pulled together a collection of resources related to Winter Storm Uri and other severe cold weather events in Texas, including the storms' effect on the state's critical infrastructure, the impact on Texans, and the response of state agencies and the Texas Legislature.

Independent System Operator:
Electric Reliability Council of Texas (ERCOT)

- ["Final Winterization Report: Texas Grid Ready for Winter Weather Operations"](#) (Press Release), January 18, 2022
- [Item 3: Weatherization and Inspection Update](#) (Powerpoint), January 17, 2022
- [Roadmap to Improving Grid Reliability](#), January 7, 2022 Update
- [Report on the Capacity, Demand and Reserves \(CDR\) in the ERCOT Region, 2022-2031](#), December 29, 2021
- [February 2021 Extreme Weather Event](#) (Website – Market Notices, Legislative Committee Presentations, Requests from Texas Legislature, PUC Orders, and other materials)
- [Winter Weather Readiness](#) (Website – Information on 2021-22 Winter Weather Readiness efforts)
- [Winter 2022](#) (Website – Resources and Updates)
- [Resource Adequacy](#) (Website – Market studies and analysis materials, Short- and long-term forecast reports on generation supply and demand)

State Agencies:
Public Utility Commission of Texas (PUC)

- [Texas Electricity Supply Chain Security and Mapping Committee Mapping Report](#), January 2022
- [Self-Evaluation Report: A Report to the Texas Sunset Advisory Commission](#), September 2021
 - [Winter Storm Uri](#)
- [Report on Extreme Weather Preparedness Best Practices](#), Prepared for the Public Utility Commission of Texas by Quanta Technology, LLC, September 27, 2012
- [2021 Winter Storm Resources for Texas Utility Consumers](#) (Website – Press Releases, Explainer Documents, Open Meetings, Winter Storm-Related Projects, PUC Rules)
- [PUC News Releases](#) (Website - Winter weather news releases from 2021 and 2022)

- **Filings 52321**: Application of the Electric Reliability Council of Texas, Inc. for a Debt Obligation Order Under PURA [Public Utility Regulatory Act] Chapter 39, Subchapter M and Request for a Good Cause Exception. (Addresses Winter Storm Uri and **HB 4492**, 87th Leg., R.S.), **PUC Interchange Filer**
- **Filings 52322**: Application of the Electric Reliability Council of Texas, Inc. for a Debt Obligation Order to Finance Uplift Balances Under PURA [Public Utility Regulatory Act] Chapter 39, Subchapter N, and for a Good Cause Exception. (Addresses Winter Storm Uri and **HB 4492**, 87th Leg., R.S.), **PUC Interchange Filer**
- **Filings 51878**: Reports of the Electric Reliability Council of Texas for Calendar Year 2021, **PUC Interchange Filer**

Railroad Commission of Texas (RRC)

- **"State's Critical Natural Gas Supply Demonstrating Significant Progress Winterizing Equipment"** (News), January 19, 2022
- **2021 Year In Review**, December 28, 2021
 - See A Historic Storm
- **"Texas Establishes First of Its Kind Designation of Natural Gas Facilities for Energy Emergencies"** (News – Agency Rules), November 30, 2021
- **Critical Infrastructure: Regulating the Weatherization of Natural Gas Facilities** (Website)

Texas Comptroller of Public Accounts (CPA)

- **"Winter Storm Uri 2021," Fiscal Notes**, October 2021
- **The 87th Legislature Takes on Electricity Reform**
- **The Economic Impact of the Storm**
- **Texans Respond During and After the Storm**

Texas Department of Insurance (TDI)

- **Insured Losses Resulting from the February 2021 Texas Winter Weather Event** (Catastrophe Statistical Plan Data as of August 31, 2021), February 8, 2022
- **Reports and Presentations**
 - Insured Losses Resulting from the February 2021 Texas Winter Weather Event (Individual reports: March 31 - August 31, 2021)

Texas Department of State Health Services (DSHS)

- *February 2021 Winter Storm-Related Deaths – Texas*, December 31, 2021

Federal Agencies:

Federal Energy Regulatory Commission (FERC) / North American Electric Reliability Corporation (NERC)

- *The February 2021 Cold Weather Outages in Texas and the South Central United States*, November 2021
- *Report on Outages and Curtailments During the Southwest Cold Weather Event of February 1-5, 2011, Causes and Recommendations*, August 1, 2011

Office of Cybersecurity, Energy Security, and Emergency Response, U.S. Department of Energy

- *February 2021 Extreme Weather Incident* (Website – Extreme Cold & Winter Weather Situation Reports)

Other Resources:

- "How Texas' Power Grid Failed in 2021 – and Who's Responsible for Preventing a Repeat," *Texas Tribune*, February 15, 2022
- "The Texas Electric Grid Failure as a Warm-up," *Texas Monthly*, February 2022
- *Texas 2022 Elections and Issues: How Ready is Texas for Another Winter Storm?*, Hobby School of Public Affairs, University of Houston, February 9, 2022
- *A Decade of Deliberate Inaction: Root Causes and Fallout from the Deadly Texas Power Failure of 2021*, Ed Hirs, Power for Tomorrow, January 2022
- *Preparing Rural Water Systems for Extreme Weather and Climate Disasters: Lessons from South Texas and Winter Storm Uri*, Urban Institute, December 2021
- "Winter Storm Uri: A Test of Texas' Water Infrastructure and Water Resource Resilience to Extreme Winter Weather Events," *Journal of Extreme Events*, December 31, 2021
- *The February Arctic Event, February 14 - 18, 2021: Event Details, Lessons Learned and Implications for MISO's Reliability Imperative*, MIdcontinent

Independent System Operator (MSO), September 15, 2021

- *When the Lone Star Froze Over - Winter Storm Uri and the Lived Experiences of Texas Low-income Communities*, Texas Energy Poverty Research Institute (TEPRI), July 23, 2021
- *A Comprehensive Review of the Southwest Power Pool's Response to the February 2021 Winter Storm: Analysis and Recommendations (Version 1.0)*, Southwest Power Pool (SPP), July 19, 2021
- *The Timeline and Events of the February 2021 Texas Electric Grid Blackouts*, University of Texas at Austin Energy Institute, July 13, 2021
- *Transmission Makes the Power System Resilient to Extreme Weather*, Grid Strategies LLC, July 2021
- *Reliability and the Texas Power Grid in the Aftermath of Winter Storm Uri*, Hobby School of Public Affairs, University of Houston, June 25, 2021
- *"Cost of Texas' 2021 Deep Freeze Justifies Weatherization,"* Federal Reserve Bank of Dallas, April 15, 2021
- *Winter Storm Uri - Natural Gas Analysis*, Prepared for the Texas Oil and Gas Association by Enverus, April 2021
- *The Winter Storm of 2021*, Hobby School of Public Affairs, University of Houston, March 21, 2021

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