Winter Fuels Outlook 2024–2025

Joseph F. DeCarolis, Administrator October 10, 2024 | NY Energy Forum



U.S. Energy Information Administration Independent Statistics and Analysis

www.eia.gov

What is the Winter Fuels Outlook?

EIA's forecasts for upcoming winter residential energy expenditures

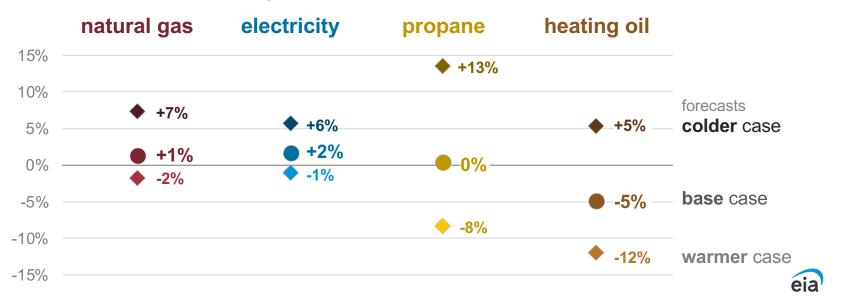
Energy market conditions for heating fuels

We expect the majority of households will **spend about the same** on energy this winter

Residential energy expenditures

percentage change since last winter

For homes where the main heating fuel is...

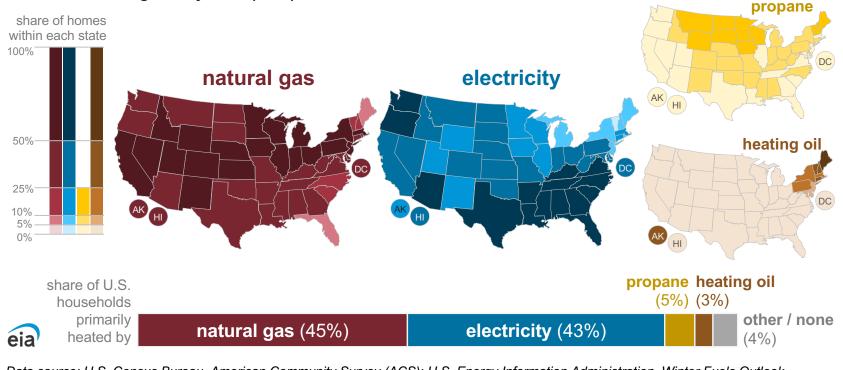


Data source: U.S. Energy Information Administration, Winter Fuels Outlook

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Household Characteristics

96% of U.S. homes are primarily heated with one of four fuels



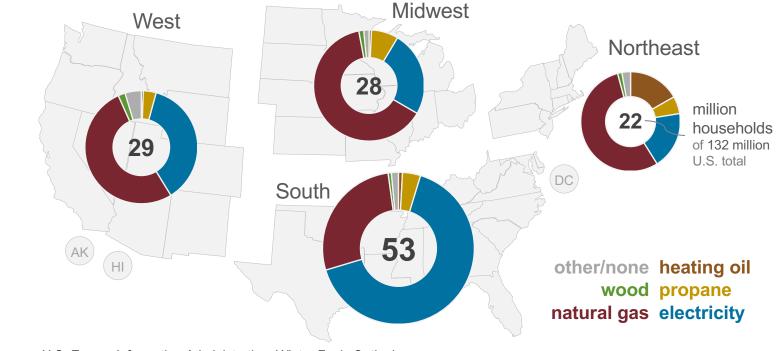
Main home heating fuel by state (2023)

Data source: U.S. Census Bureau, American Community Survey (ACS); U.S. Energy Information Administration, Winter Fuels Outlook

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Most *Winter Fuels Outlook* forecasts are for specific **Census regions**

Census regions and their heating fuels (2024)



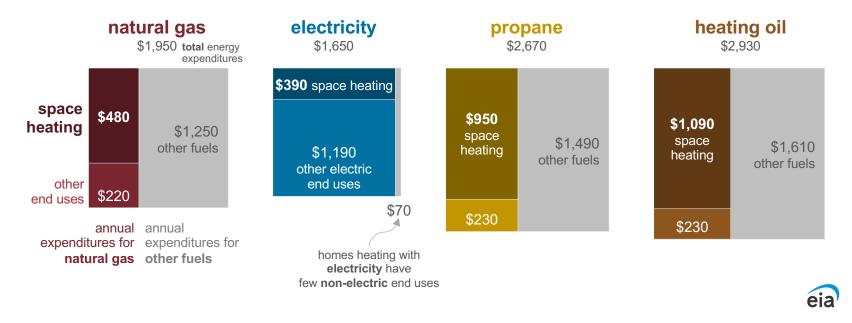
Data source: U.S. Energy Information Administration, Winter Fuels Outlook

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Expenditures from the **main heating fuel** are a portion of **total household spending** on energy

U.S. annual household energy expenditures (2020)

For homes where the **main heating fuel** is:



Source: U.S. Energy Information Administration, Residential Energy Consumption Survey, 2020, Table CE4.16

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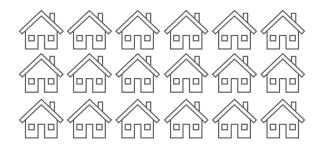
Weather Sensitivities

Weather affects energy expenditures in two ways



For your household

Local weather directly affects household energy consumption.

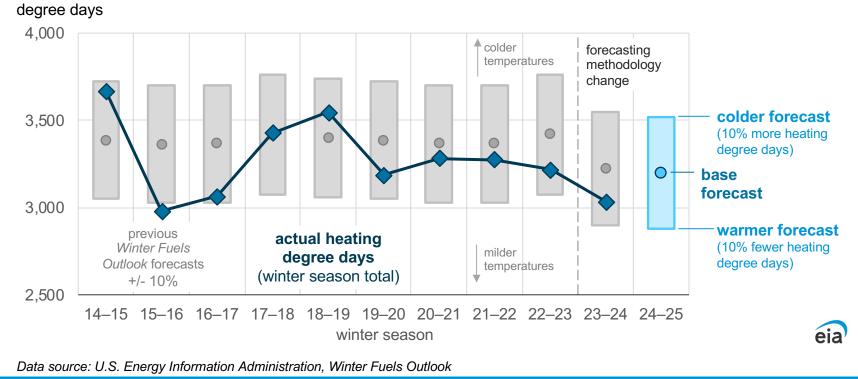


In aggregate

More demand leads to higher wholesale prices, which may be passed along to consumers.



Temperatures are a key source of uncertainty in our forecasts



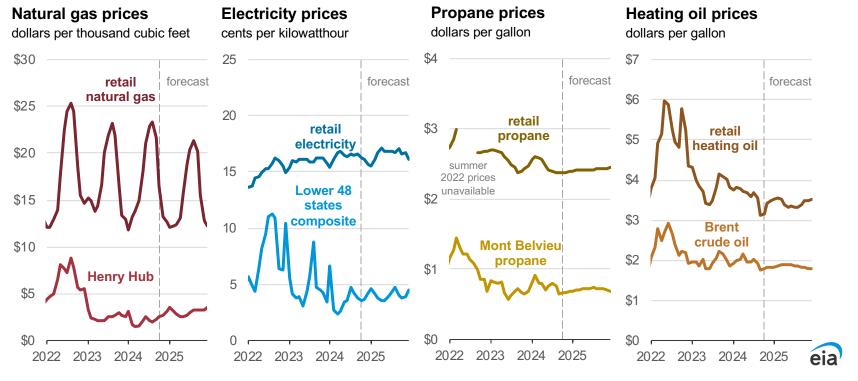
U.S. population-weighted heating degree days

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Energy Market Conditions

Changes in **wholesale** prices ultimately affect **retail** prices, but timing varies by market



Data source: U.S. Energy Information Administration, Short-Term Energy Outlook

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Residential Energy Expenditures

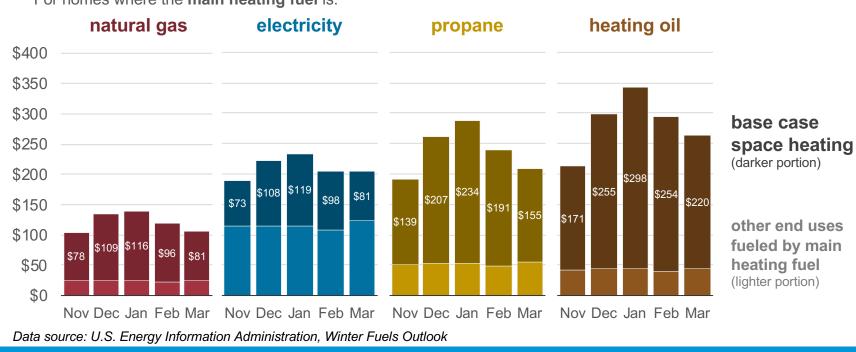
A note about comparing forecasts across fuels

By dividing the U.S. housing stock by main heating fuel, we are showing... different households with different characteristics in different locations experiencing different weather.



Our forecasts now distinguish **space heating** from other end uses

Energy expenditures for space heating and other end uses (winter 2024–25)



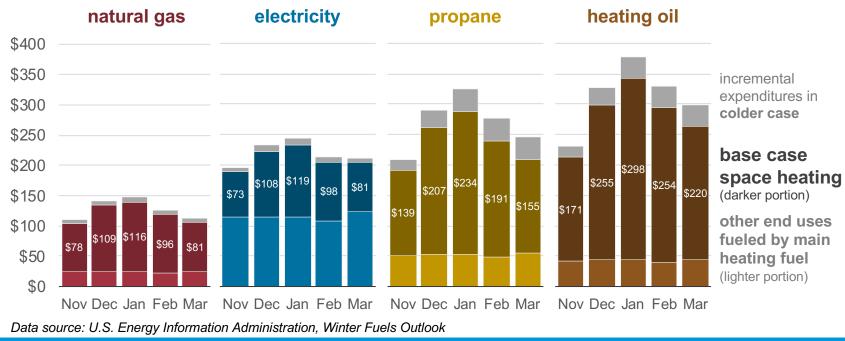
For homes where the main heating fuel is:

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Our forecasts now distinguish **space heating** from other end uses

Energy expenditures for space heating and other end uses (winter 2024–25)



For homes where the **main heating fuel** is:

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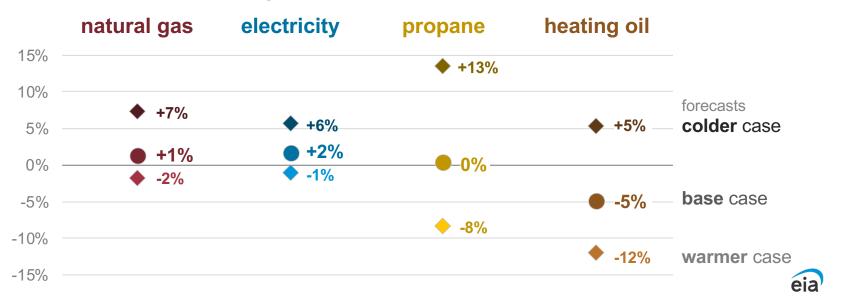
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We expect the majority of households will **spend about the same** on energy this winter

Residential energy expenditures

percentage change since last winter

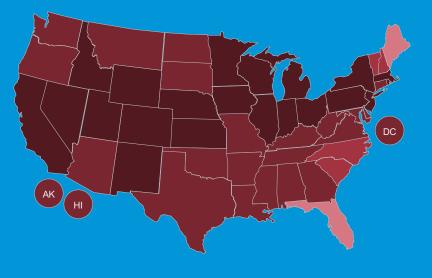
For homes where the main heating fuel is...

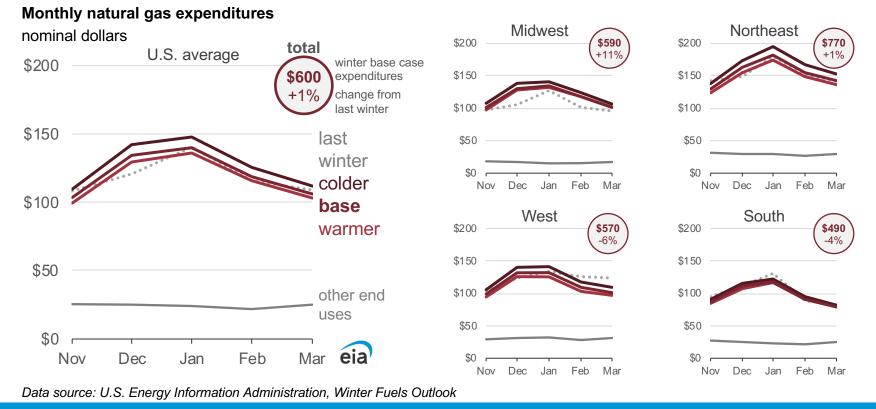


Data source: U.S. Energy Information Administration, Winter Fuels Outlook

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Natural Gas





Natural gas expenditures forecast to be similar to last winter

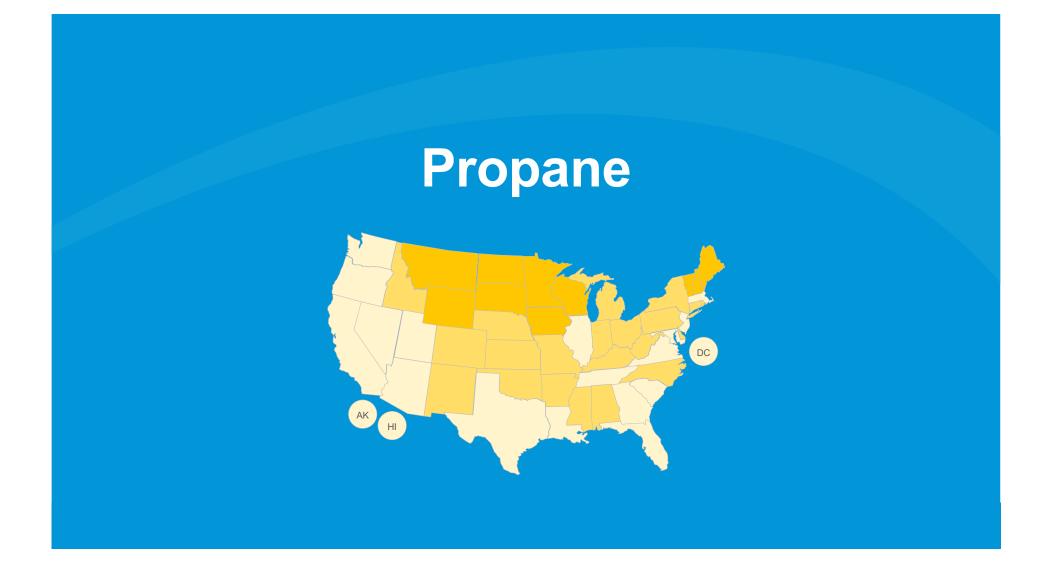
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billion cubic feet Pacific and South Midwest East Mountain Central 1,400 forecast forecast forecast forecast 1,200 1,000 800 600 rolling previous five-year average 400 200 eia 2023 2024 2025 2025 2025 2023 2024 2023 2024 2025 2023 2024 Data source: U.S. Energy Information Administration, Short-Term Energy Outlook

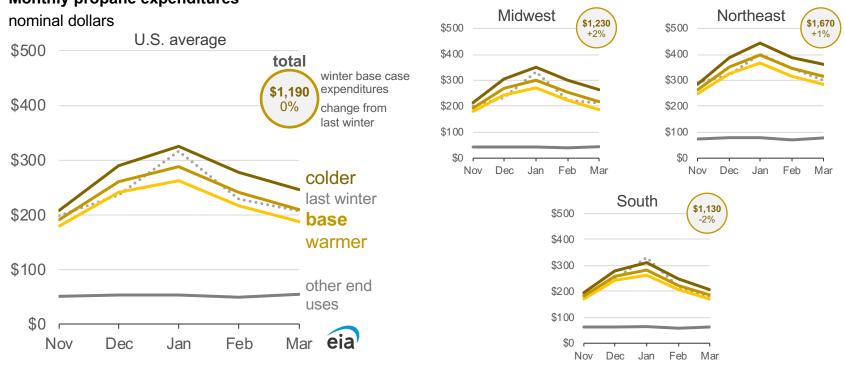
Regional natural gas inventories are **near or above average** Regional natural gas inventories

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Propane expenditures forecast to be similar to last winter



Monthly propane expenditures

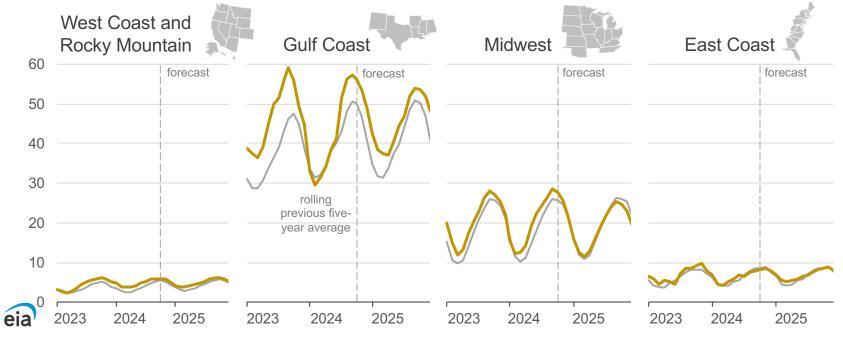
Data source: U.S. Energy Information Administration, Winter Fuels Outlook

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Propane inventories are **above average**, especially in the Gulf Coast region

Regional propane inventories

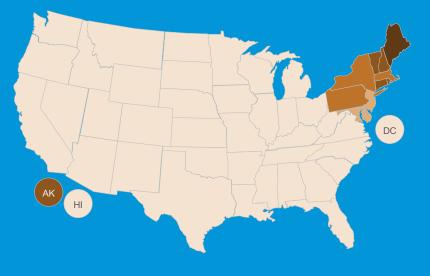
million barrels



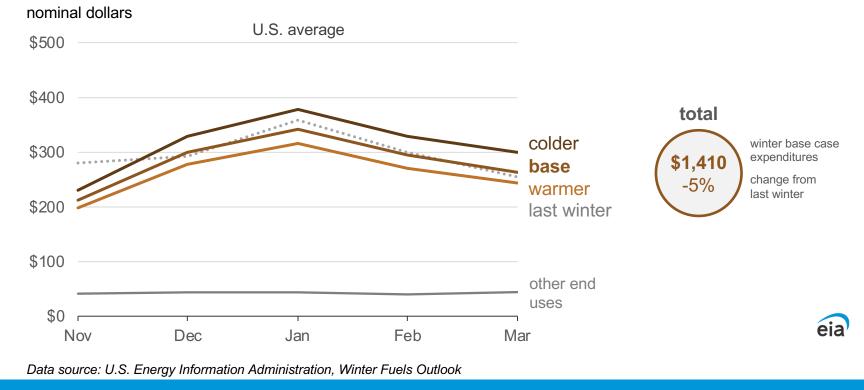
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook

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Heating Oil



Heating oil expenditures forecast to be lower than last winter

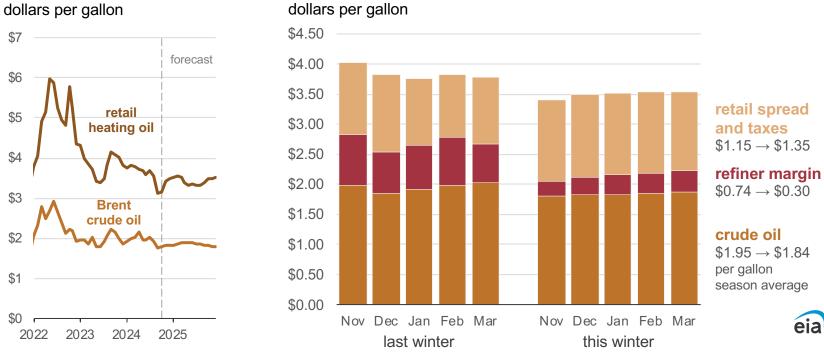


Monthly heating oil expenditures

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Refining margins for heating oil are lower than last winter



Estimated components of retail heating oil prices

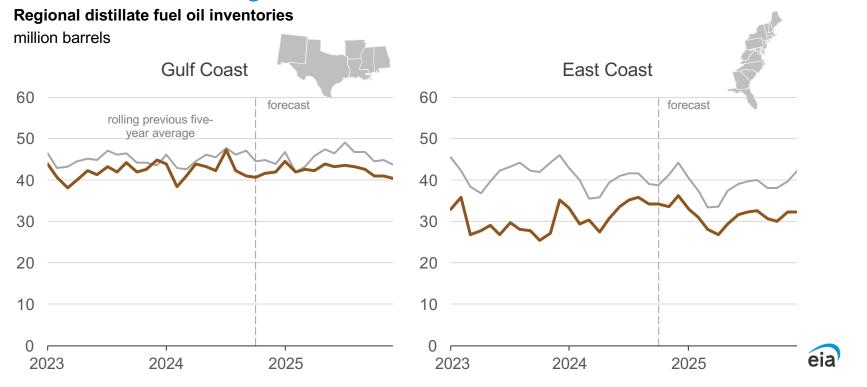
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook

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Crude oil and heating oil prices

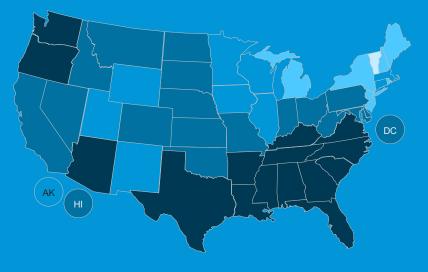
Heating oil inventories are **below average** in the Gulf Coast and East Coast regions



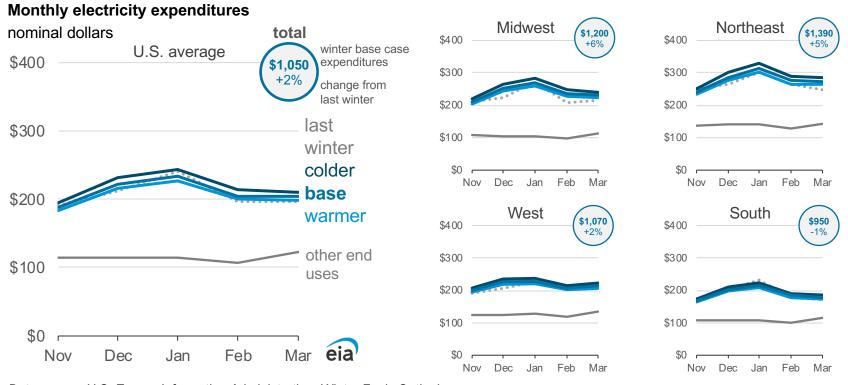
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook

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Electricity expenditures forecast to be **slightly higher** than last winter



Data source: U.S. Energy Information Administration, Winter Fuels Outlook

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EIA Resources

Winter Fuels Outlook updates and other EIA resources

- We update household consumption, price, and expenditure estimates with each Short-Term Energy Outlook release through April 2025
- EIA data sources
 - Heating Oil and Propane Update
 - <u>Winter Propane Market Update</u>
 - Weekly Petroleum Status Report
 - Weekly Natural Gas Storage Report
 - Hourly Electric Grid Monitor
 - Residential Energy Consumption Survey



Data source: U.S. Energy Information Administration, Winter Fuels Outlook

