



# **Railroad Update**

## **Rail Energy Transportation Advisory Committee**

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**April 26, 2023**



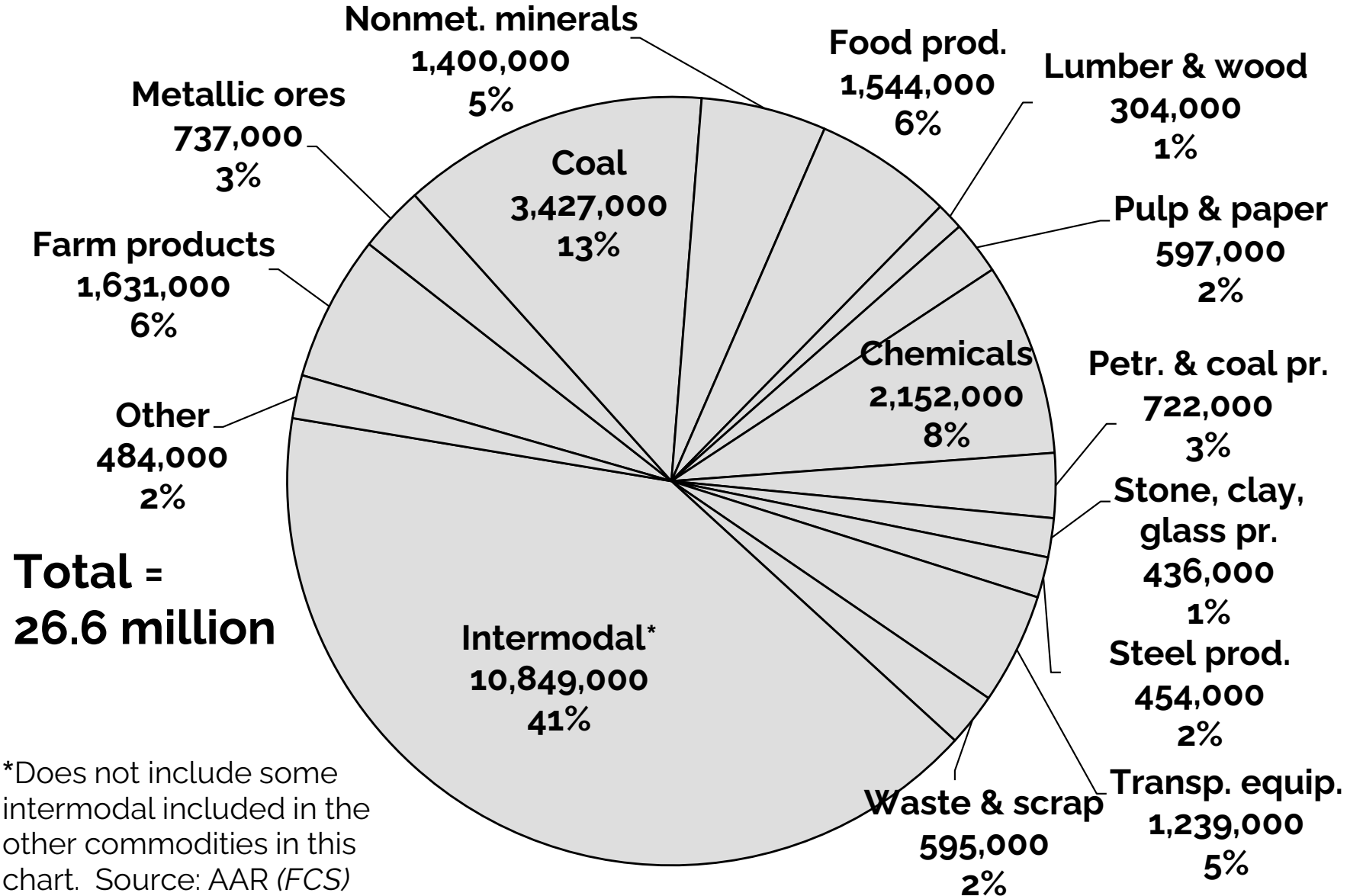
# Topics for Today

- Update on overall rail traffic trends
- Coal
- Other energy-related products
- Questions/comments



# Originated Units by Class I RRs in 2022

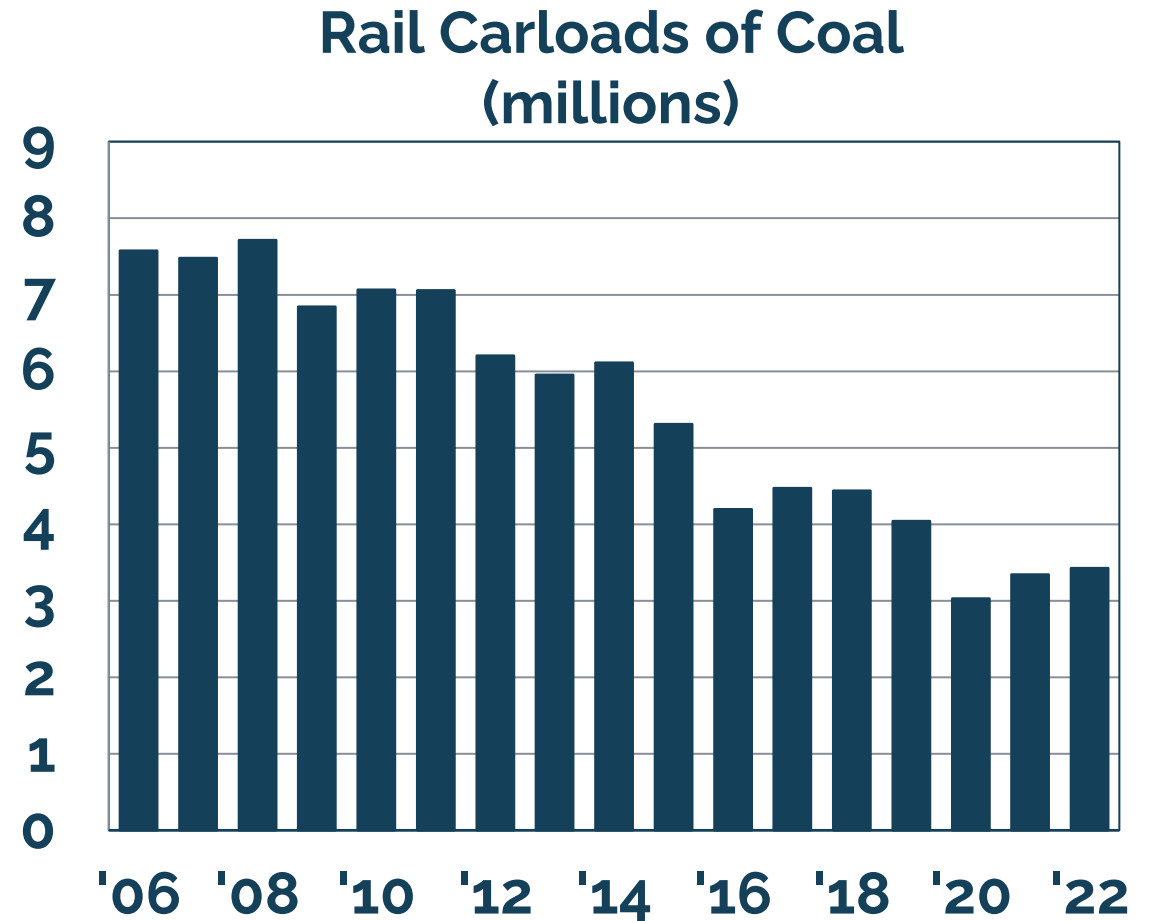
**Railroads  
carry just  
about  
everything.**



# Long Decline for Coal

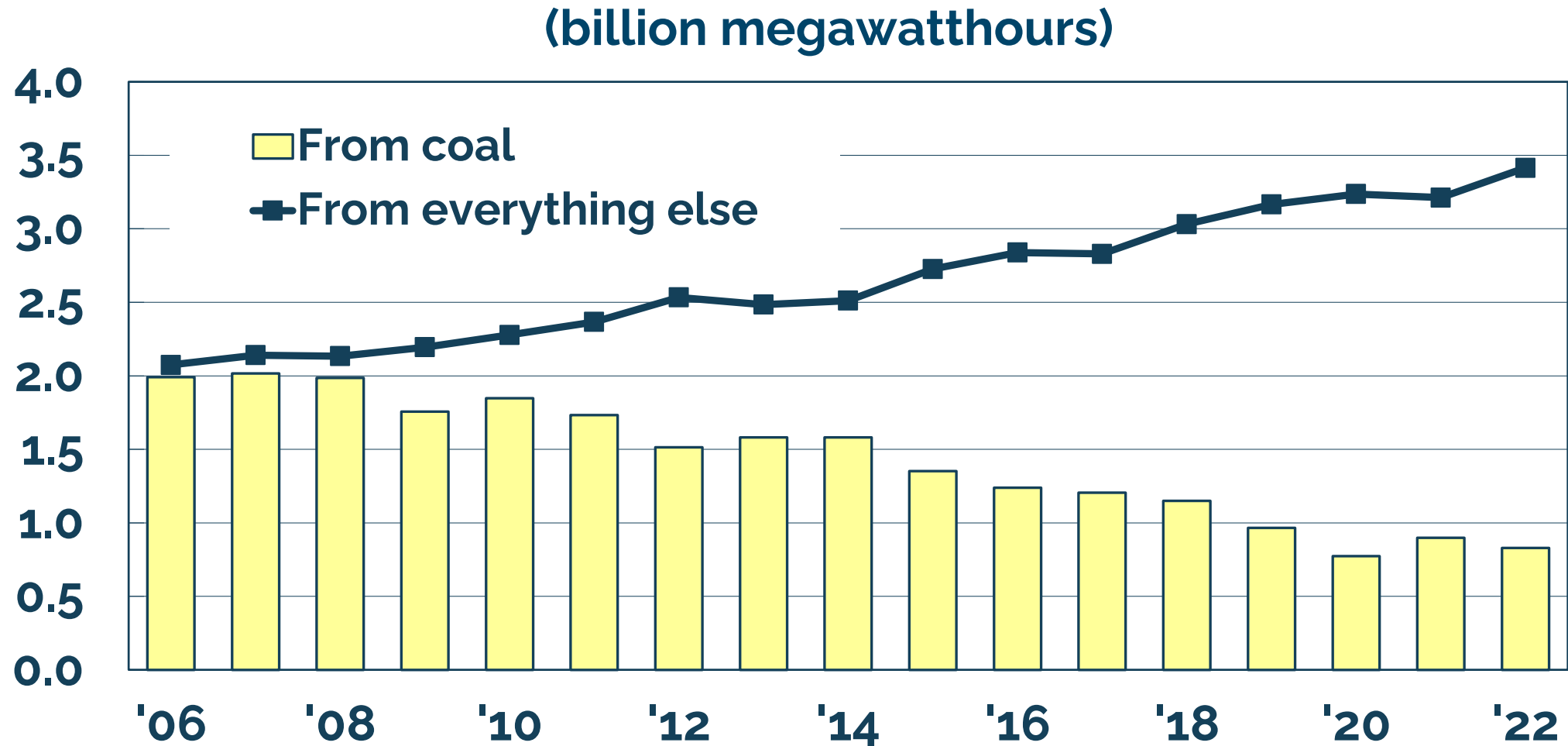
% Share U.S. Electricity				
Fuel	2000	2010	2020	2022
Coal	52%	45%	19%	20%
Natural Gas	16%	24%	40%	40%
Nuclear	20%	20%	20%	18%
Renewable:	2%	4%	13%	15%
Hydro	7%	6%	7%	6%
Other	3%	1%	1%	1%

Source: Energy Information Administration



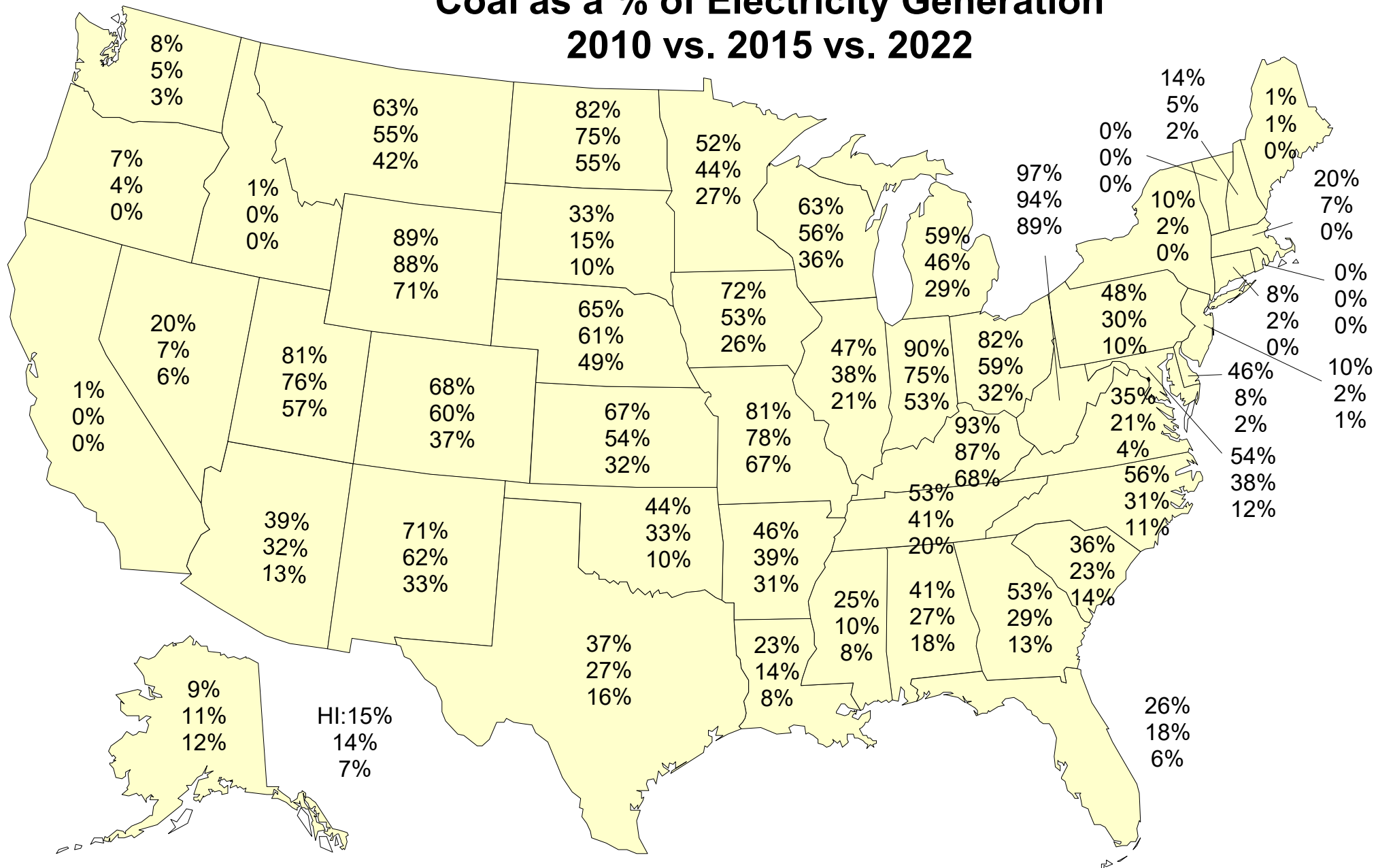
Data are Class I originations. Source: AAR

# U.S. Electricity Generation



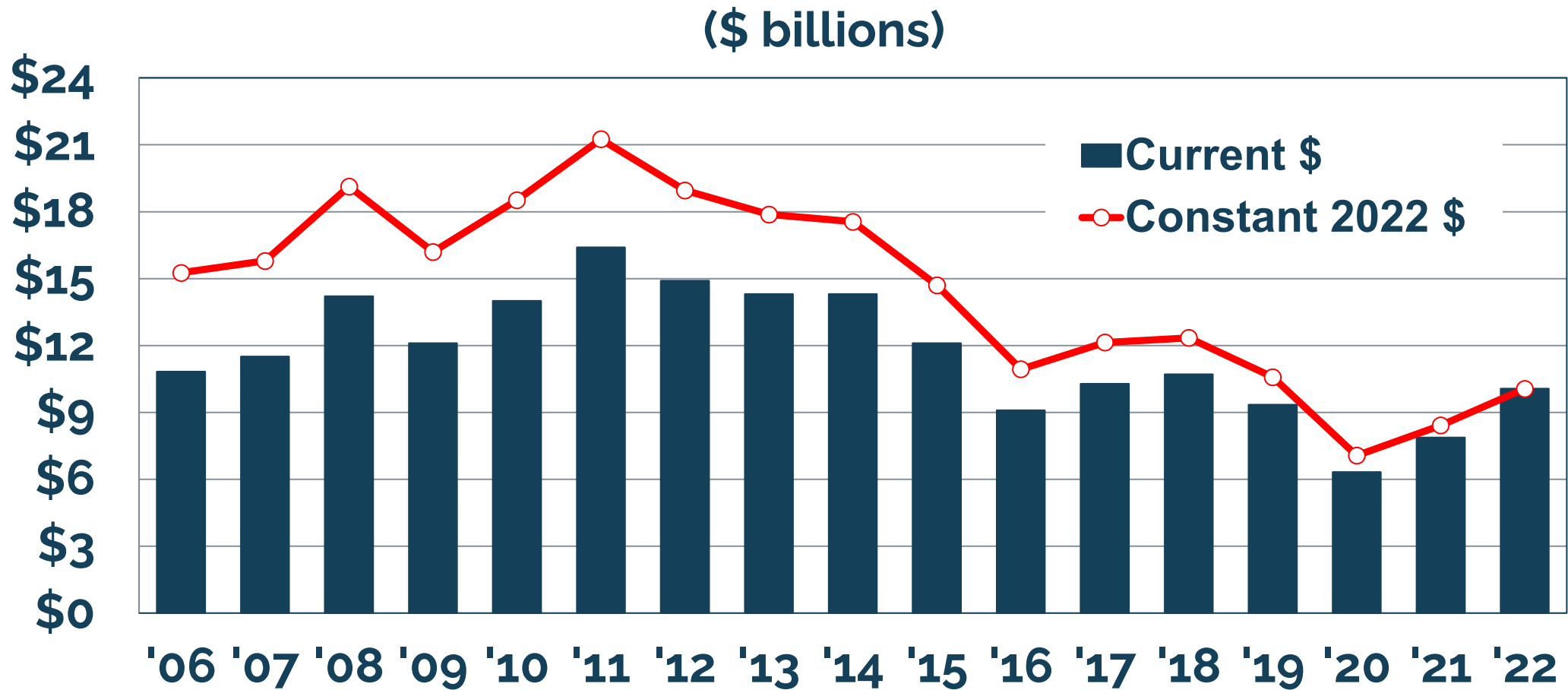
Source: Energy Information Administration

# Coal as a % of Electricity Generation 2010 vs. 2015 vs. 2022



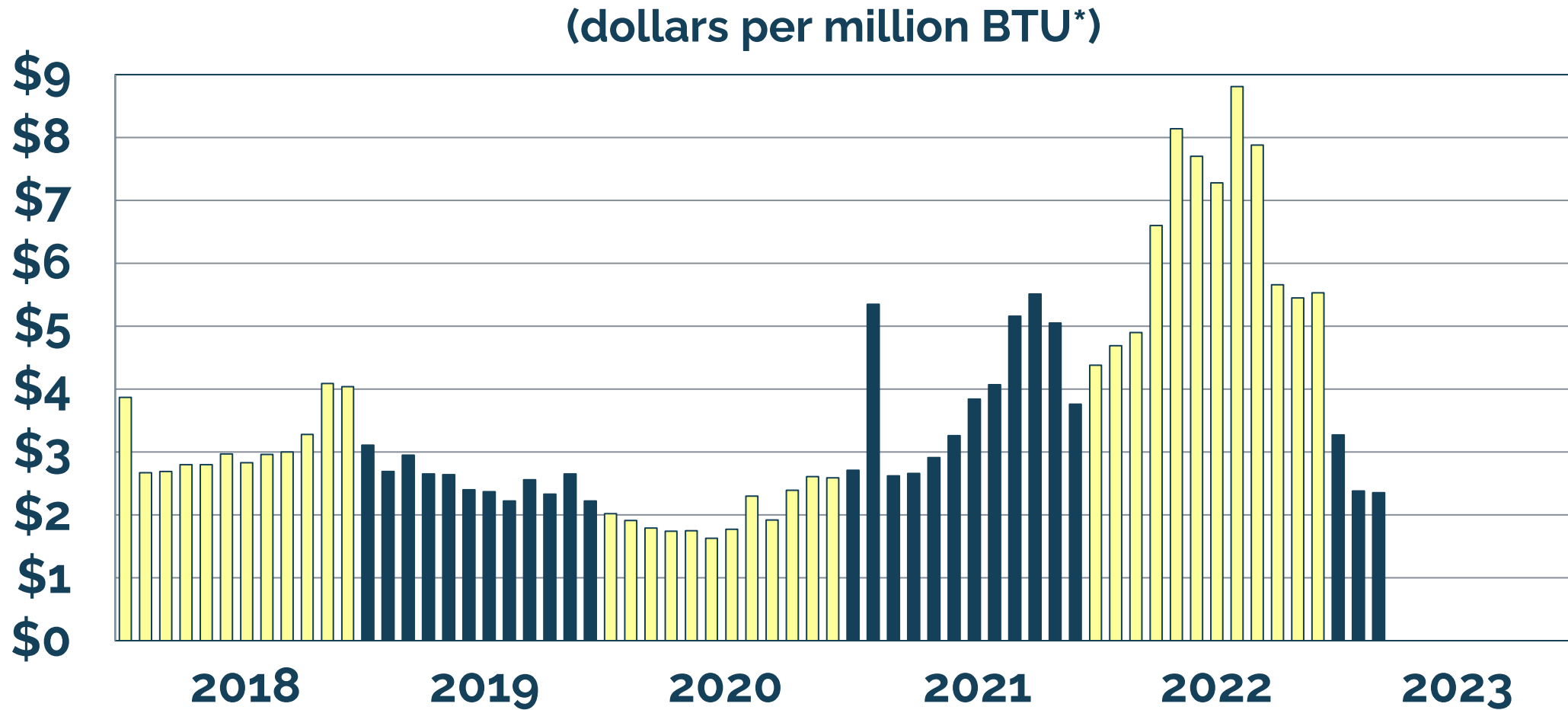


# U.S. Rail Revenue From Coal



Figures are gross revenue for Class I railroads. Inflation adjustment made using GDP implicit price deflator. Source: AAR *Freight Commodity Statistics*

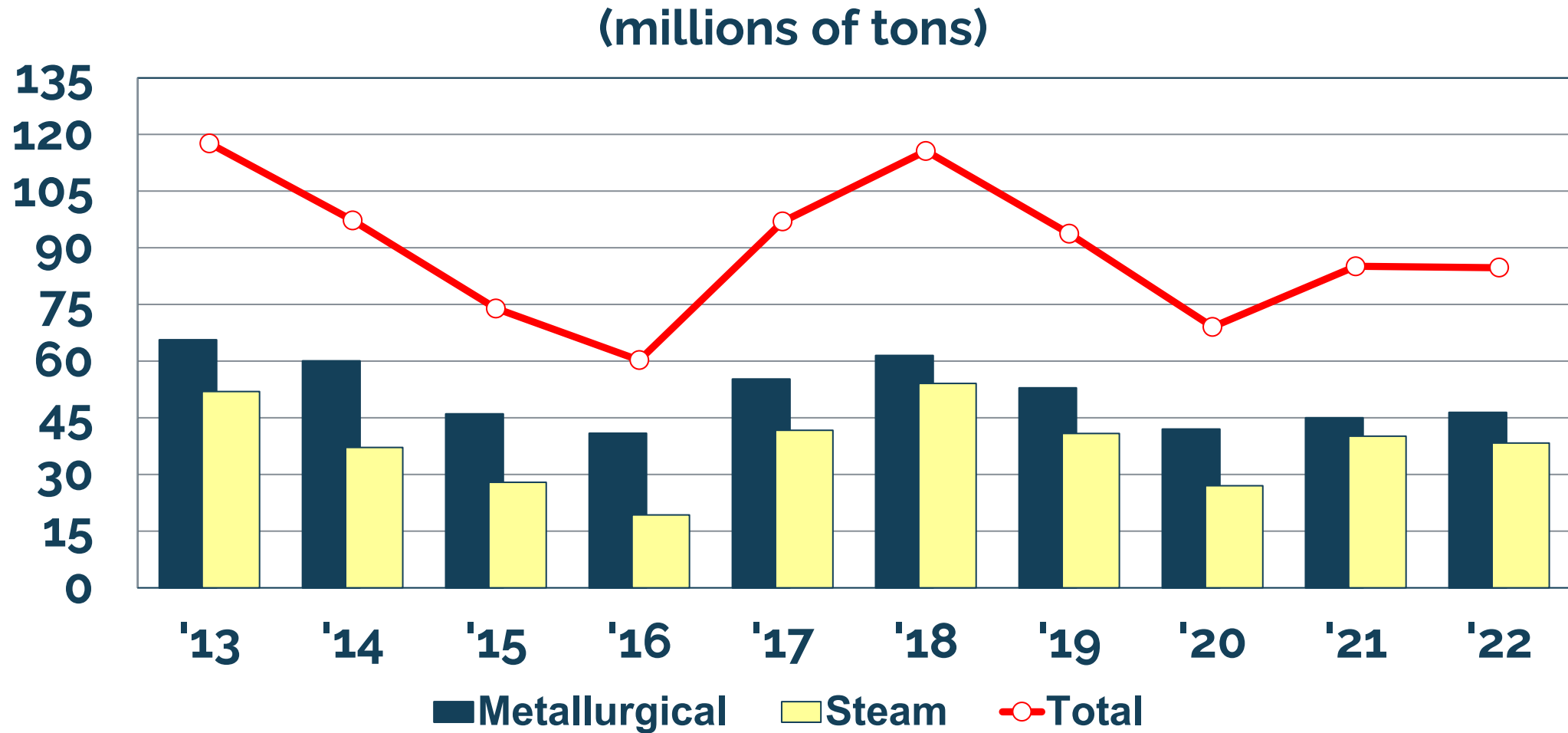
# Volatile Natural Gas Prices



\*Henry Hub spot price. Source: Energy Information Administration



# U.S. Coal Exports



Source: Energy Information Administration

# Challenges Ahead

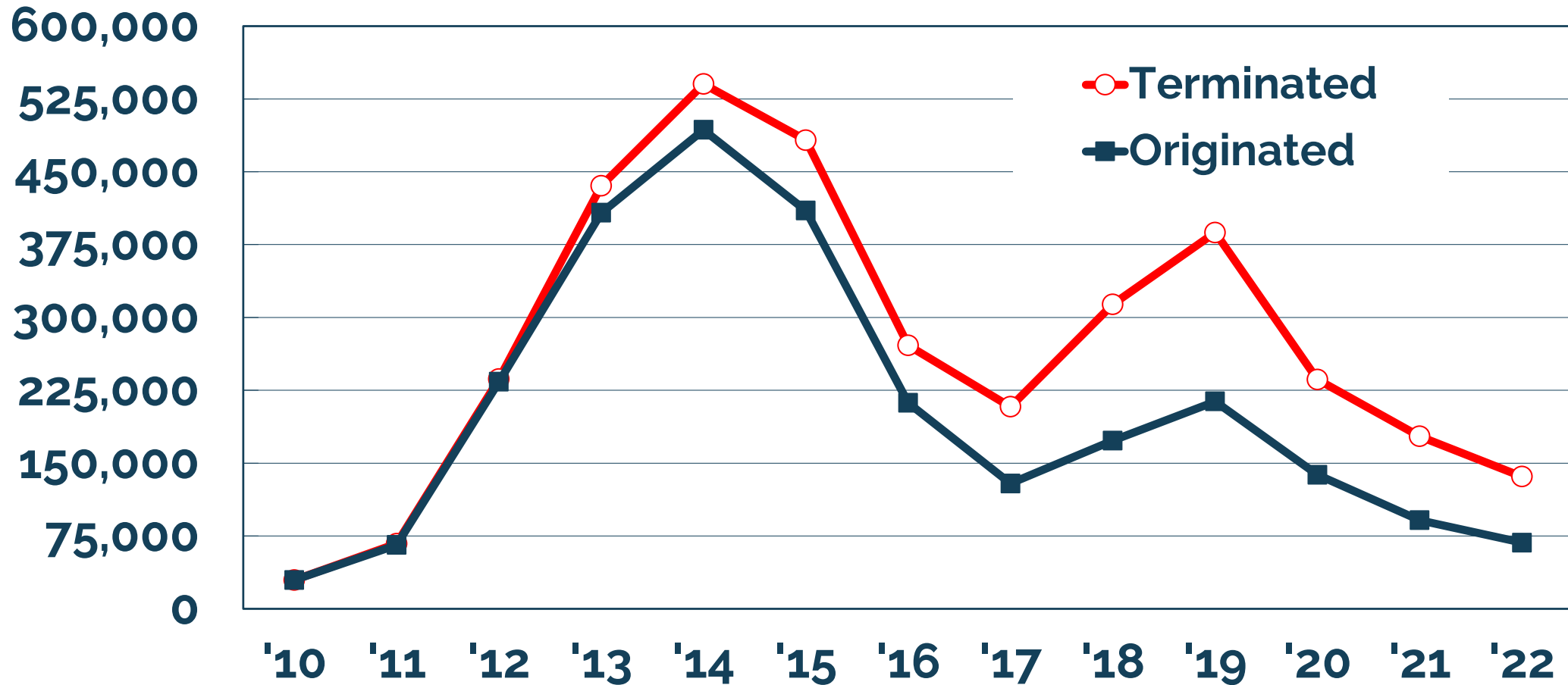
## % Share U.S. Electricity Generation

Fuel	2000	2010	2020	2022	2023	2024
Coal	52%	45%	19%	20%	17%	17%
Natural Gas	16%	24%	40%	40%	39%	37%
Nuclear	20%	20%	20%	18%	20%	20%
Renewables	2%	4%	13%	15%	16%	18%
Hydro	7%	6%	7%	6%	7%	7%
Other	3%	1%	1%	1%	1%	1%

Source: Energy Information Administration 2023 and 2024 are EIA estimates



# U.S. Rail Carloads of Crude Oil

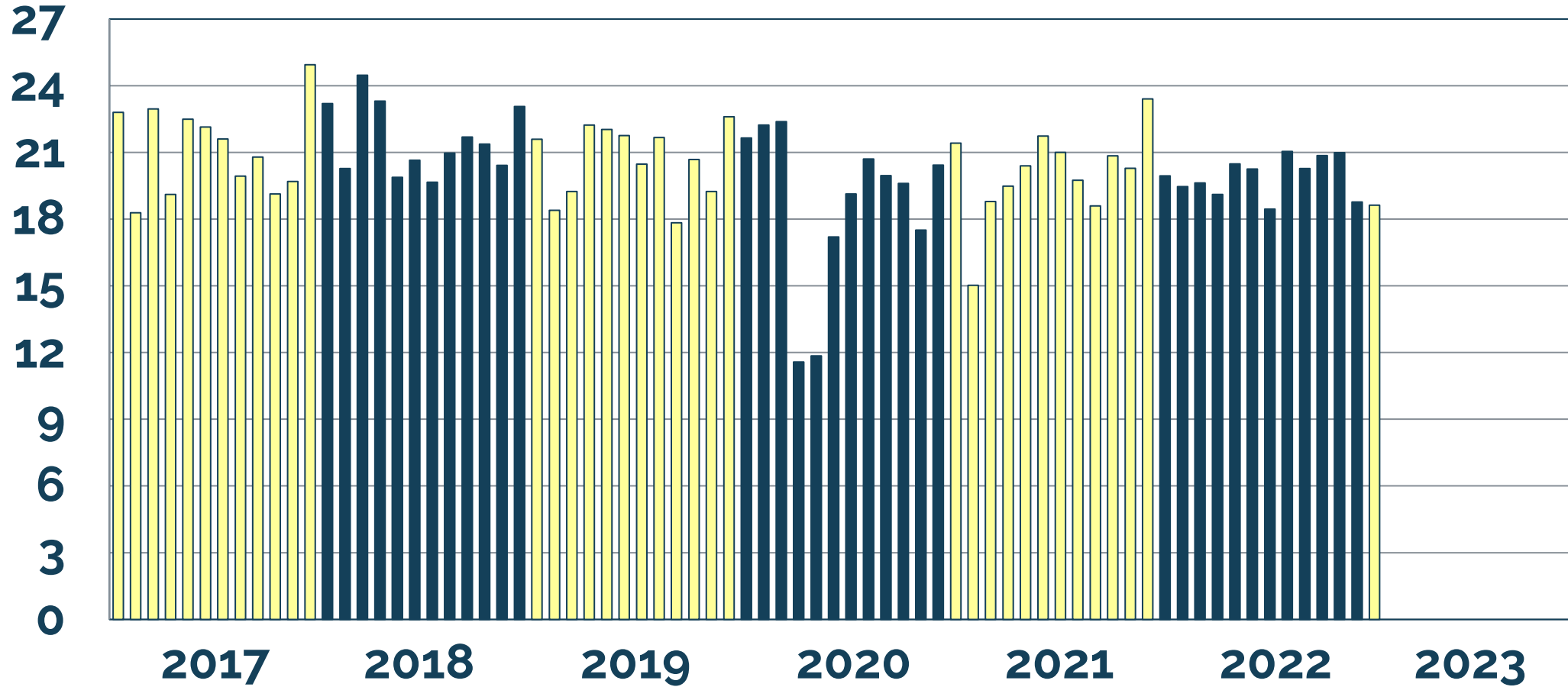


Data are for Class I railroads. Source: AAR Freight Commodity Statistics

# U.S. Ethanol Shipments by Rail

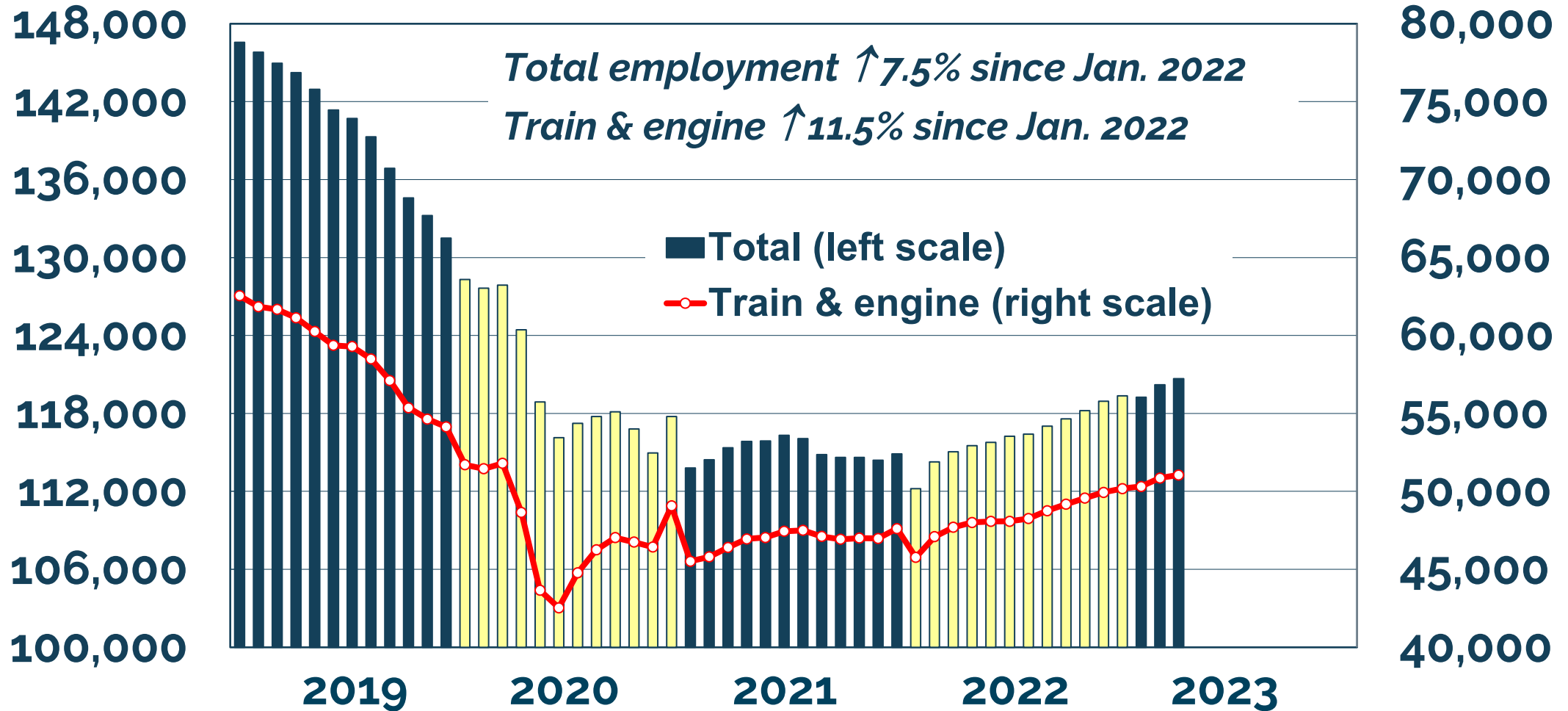


(million barrels)



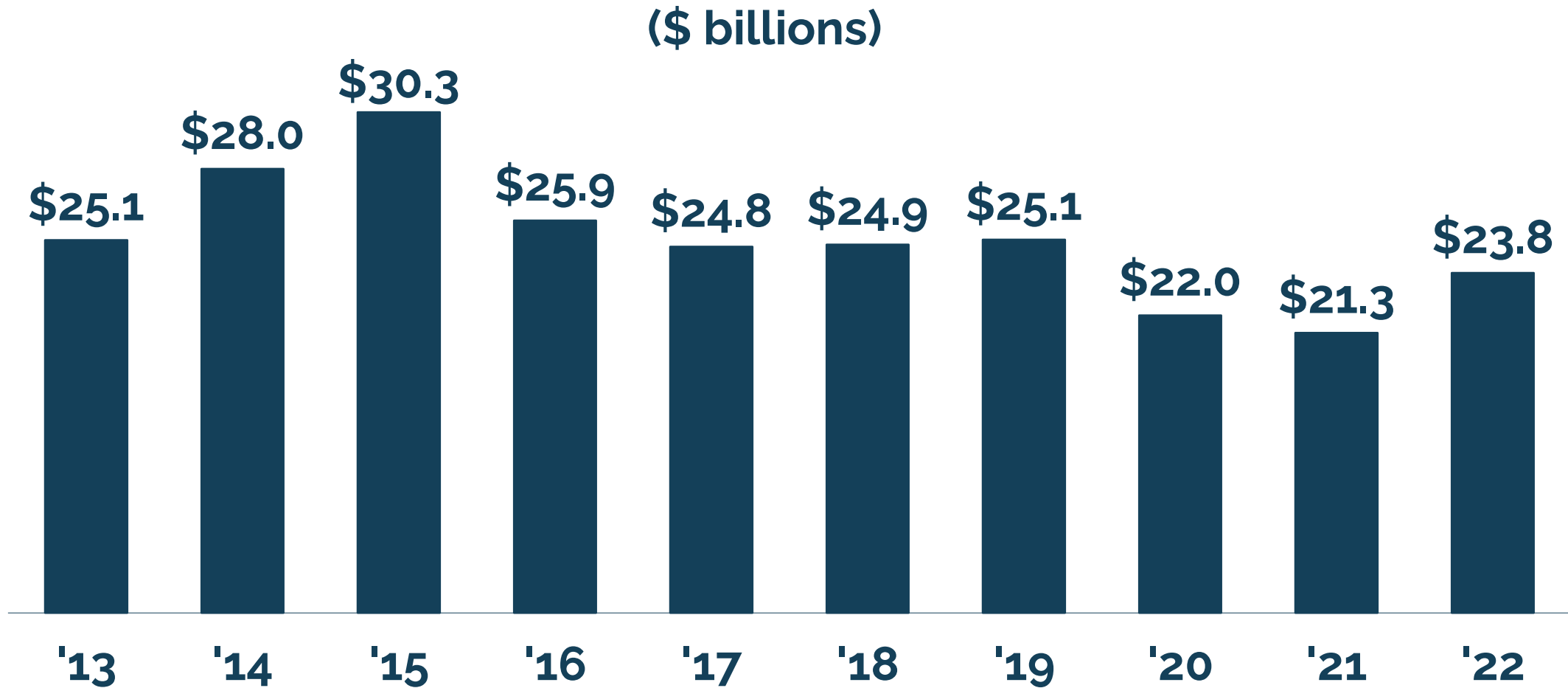
Source: Energy Information Administration

# Gains in Freight Rail Employment



Source: STB

# Class I Railroad Spending on Infrastructure & Equipment\*



\*Capital spending + maintenance expenses. Source: AAR