

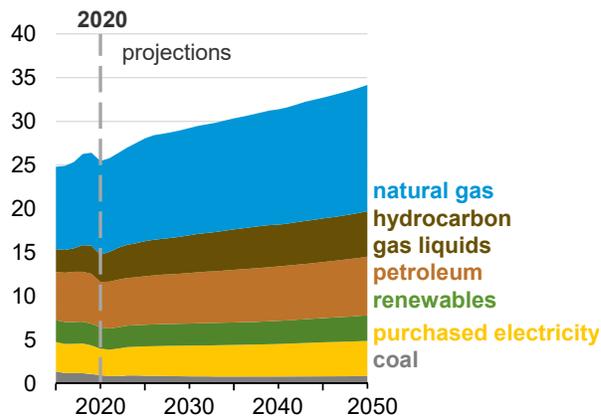


# Industrial

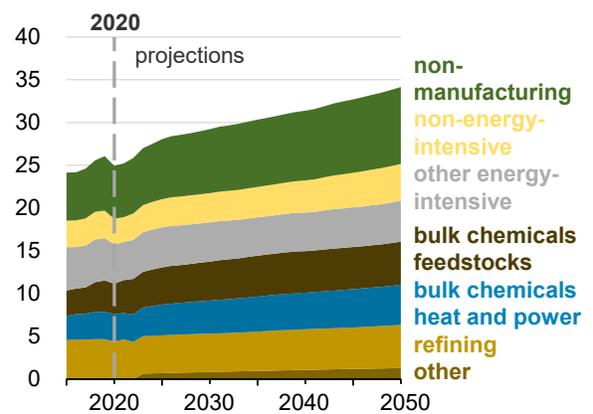


## Industrial sector energy consumption

**Industrial energy consumption by fuel**  
AEO2021 Reference case  
quadrillion British thermal units



**Industrial energy consumption by subsector**  
AEO2021 Reference case  
quadrillion British thermal units



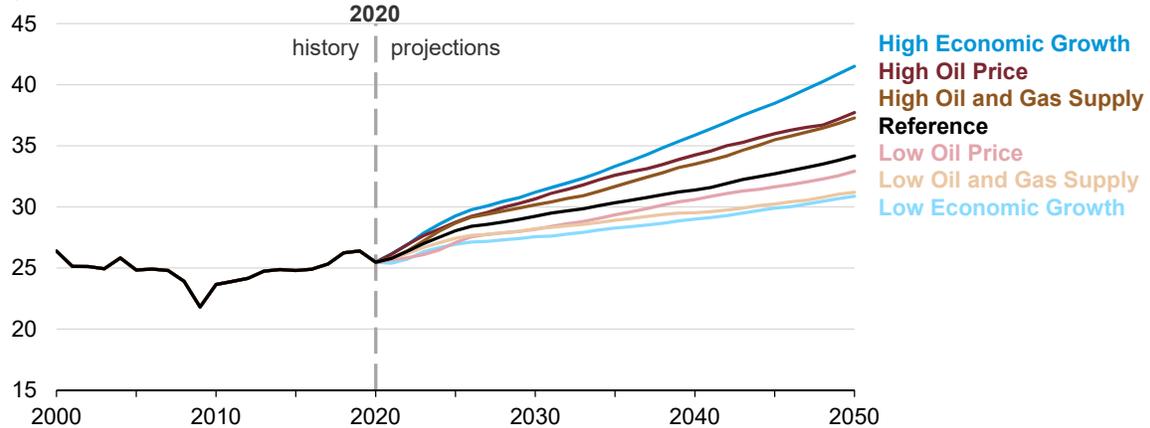


## Industrial sector delivered energy consumption across cases

### Industrial delivered energy consumption

#### AEO2021 selected side cases

quadrillion British thermal units



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

www.eia.gov/aeo

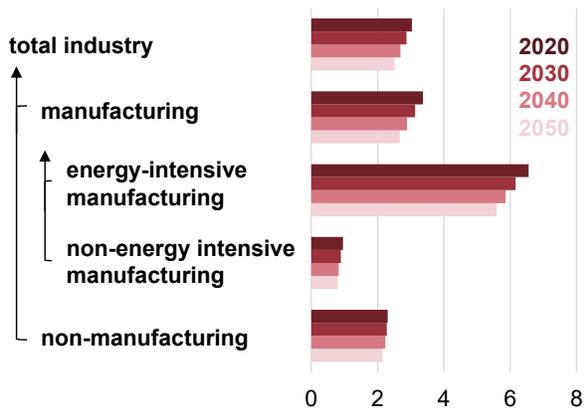
3



## Industrial sector energy intensity

### Energy intensity by subsector

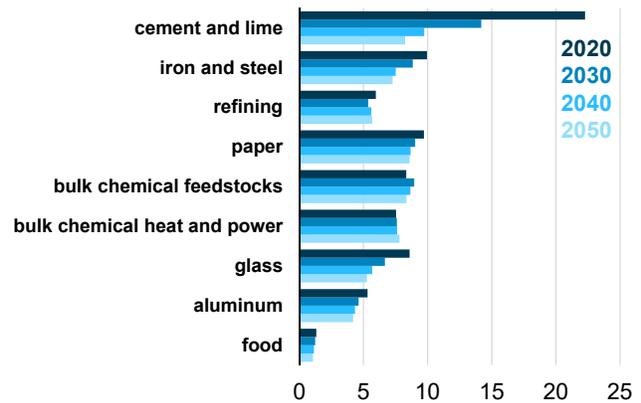
#### AEO2021 Reference case



trillion British thermal units per billion 2012 dollar shipments

### Energy-intensive manufacturing by industry

#### AEO2021 Reference case



trillion British thermal units per billion 2012 dollar shipments



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

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4

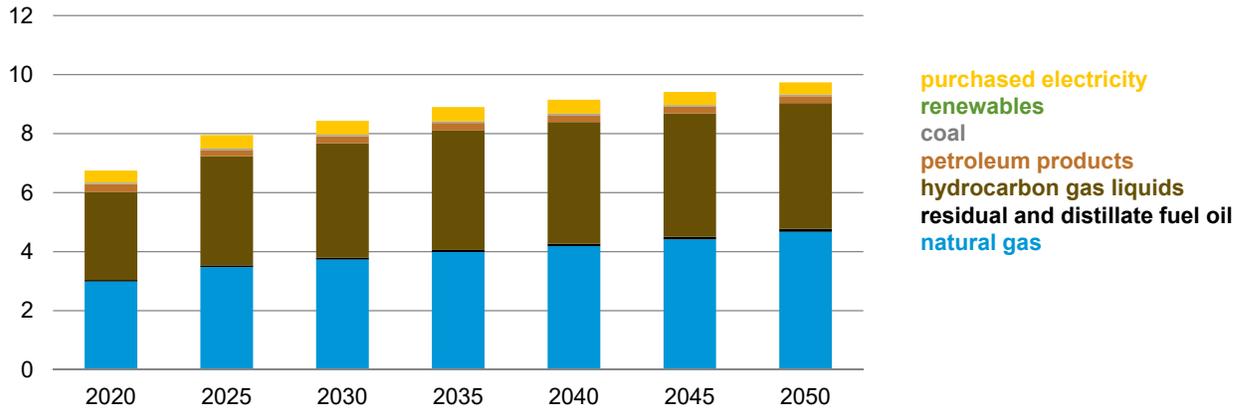


## Bulk chemicals industry energy consumption by fuel

Bulk chemicals industry energy consumption by energy source, including feedstocks

AEO2021 Reference case

quadrillion British thermal units



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

[www.eia.gov/aeo](http://www.eia.gov/aeo)

5

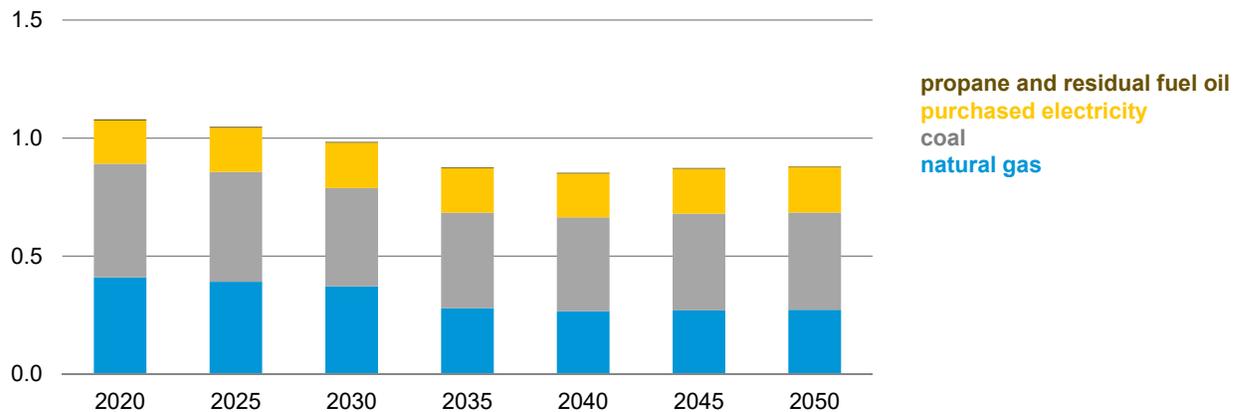


## Iron and steel industry energy consumption by fuel

Iron and steel industry energy consumption by fuel

AEO2021 Reference case

quadrillion British thermal units



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

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6

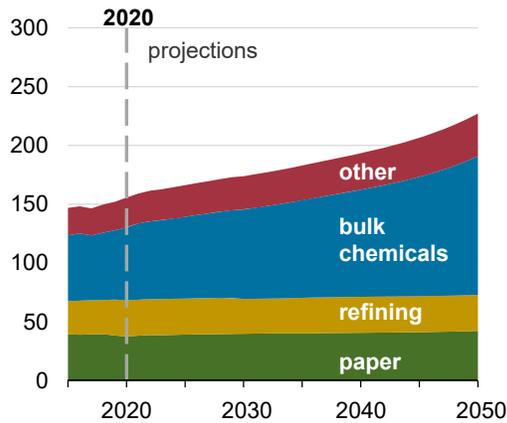


## Industrial sector combined-heat-and-power (CHP) generation

**CHP generation by industry**

**AEO2021 Reference case**

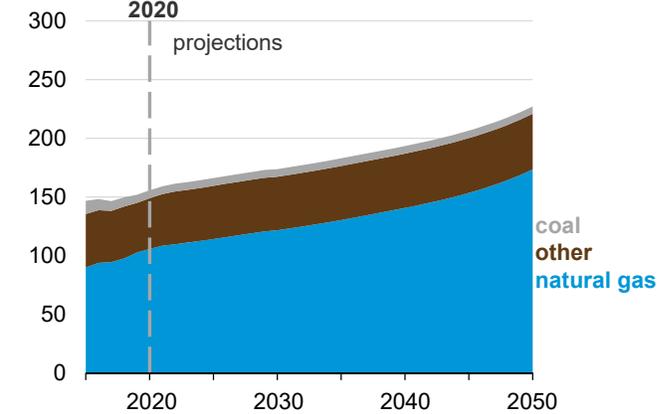
billion kilowatthours



**CHP generation by fuel**

**AEO2021 Reference case**

billion kilowatthours



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

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7

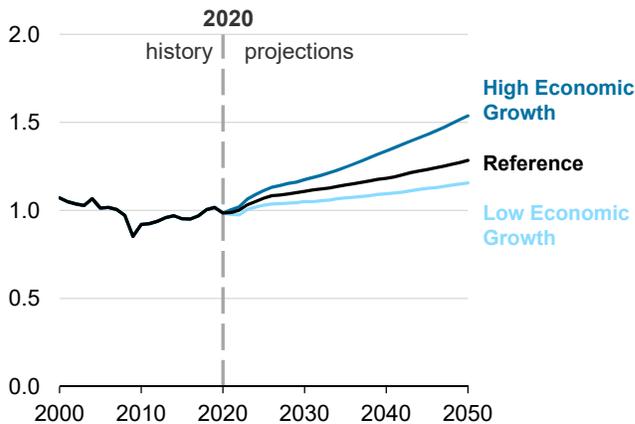


## Industrial sector carbon dioxide emissions and carbon intensity

**Industrial sector carbon dioxide emissions**

**AEO2021 economic growth cases**

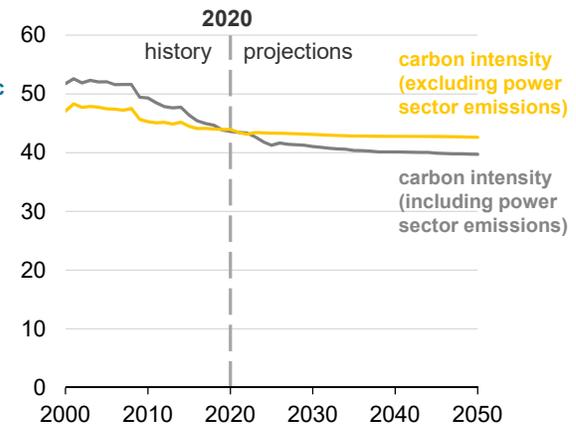
billion metric tons



**Industrial sector carbon intensity**

**AEO2021 Reference case**

metric tons of carbon dioxide per billion British thermal units



Source: U.S. Energy Information Administration, *Annual Energy Outlook 2021* (AEO2021)

[www.eia.gov/aeo](http://www.eia.gov/aeo)

8