Industrial sector energy consumption

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

2020
projections

natural gas
hydrocarbon
gas liquids
petroleum
renewables
purchased electricity
coal

2020 2030 2040 2050
0 5 10 15 20 25 30 35 40

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

2020
projections

non-manufacturing
non-energy-intensive
other energy-intensive
bulk chemicals
feedstocks
bulk chemicals
heat and power
refining
other

2020 2030 2040 2050
0 5 10 15 20 25 30 35 40

Industrial sector delivered energy consumption across cases

Industrial delivered energy consumption
AEO2021 selected side cases
quadrillion British thermal units


Industrial sector energy intensity
Energy intensity by subsector
AEO2021 Reference case

Bulk chemicals industry energy consumption by fuel

Iron and steel industry energy consumption by fuel
Industrial sector combined-heat-and-power (CHP) generation

**CHP generation by industry**
*AEO2021 Reference case*

- **billions kilowatthours**
  - **2020** projections
  - **2020** other
  - **2020** bulk chemicals
  - **2020** refining
  - **2020** paper

**CHP generation by fuel**
*AEO2021 Reference case*

- **billions kilowatthours**
  - **2020** coal
  - **2020** other
  - **2020** natural gas

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**Industrial sector carbon dioxide emissions and carbon intensity**

**Industrial sector carbon dioxide emissions**
*AEO2021 economic growth cases*

- **billions metric tons**
  - **2020** history
  - **2020** projections

**High Economic Growth**
**Reference**
**Low Economic Growth**

**Industrial sector carbon intensity**
*AEO2021 Reference case*

- **metric tons of carbon dioxide per billion British thermal units**
  - **2020** history
  - **2020** projections

**Carbon intensity (excluding power sector emissions)**
**Carbon intensity (including power sector emissions)**