U.S. Manufacturing Climate Success Story

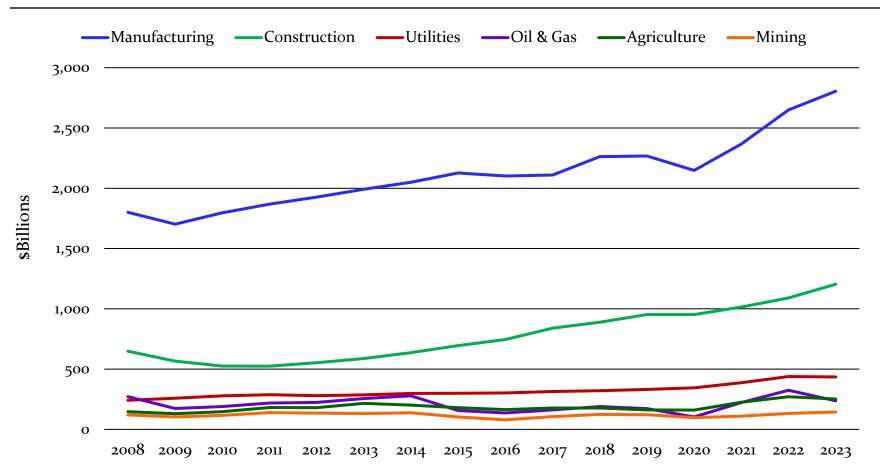
Industrial Energy Consumers of America 2024

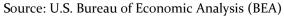


U.S. Manufacturing Outperforms Other Sectors on Climate Change



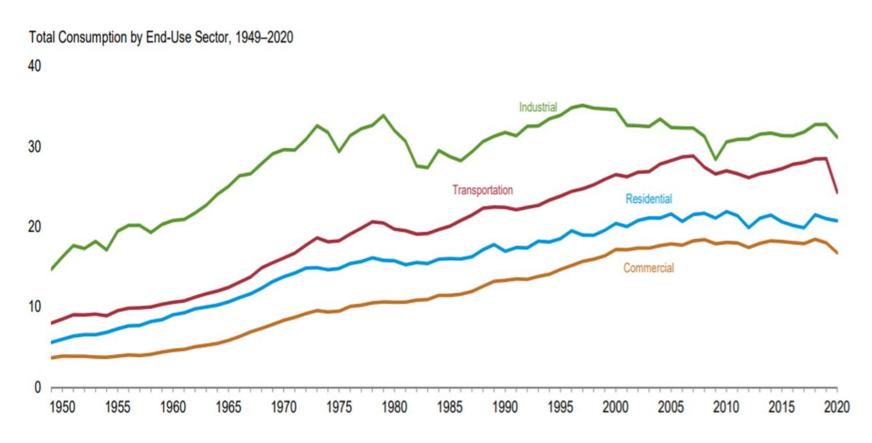
U.S. Manufacturing is a Significant GDP Contributor

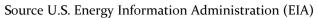






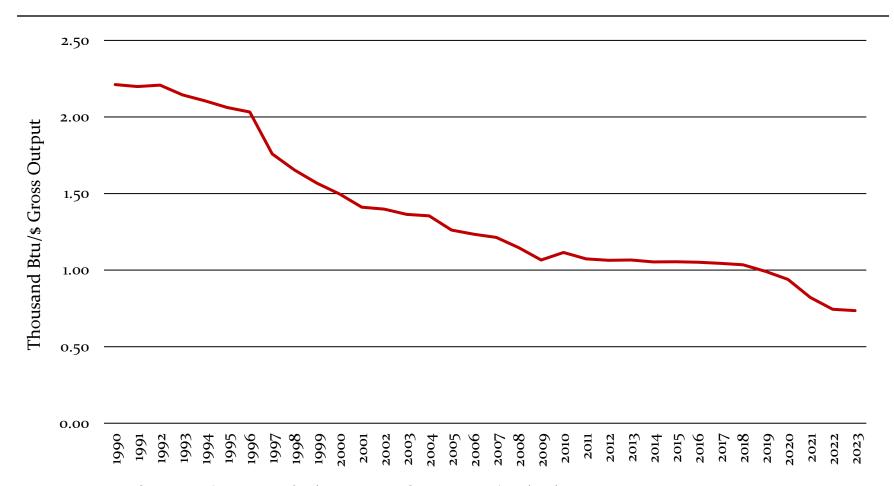
U.S. Manufacturing Direct and Indirect <u>Energy</u> <u>Consumption</u> Has been Flat for 50 Years (1970-2020)







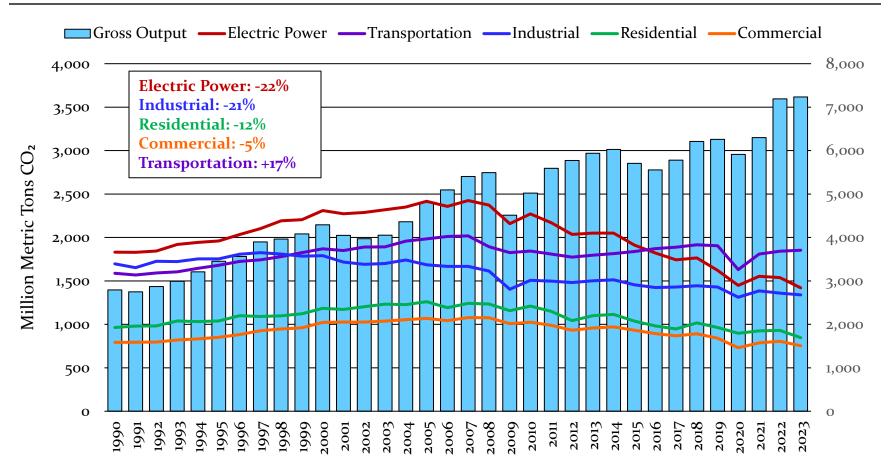
Since 1990, U.S. Industrial <u>Energy Intensity</u> Decreased by 67%

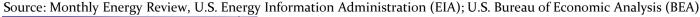


Source: U.S. Energy Information Administration (EIA), U.S. Bureau of Economic Analysis (BEA)



Since 1990, U.S. Manufacturing Has Reduced <u>Direct</u> CO₂ Emissions by 21%, While Manufacturing Gross Output Increased by 159%

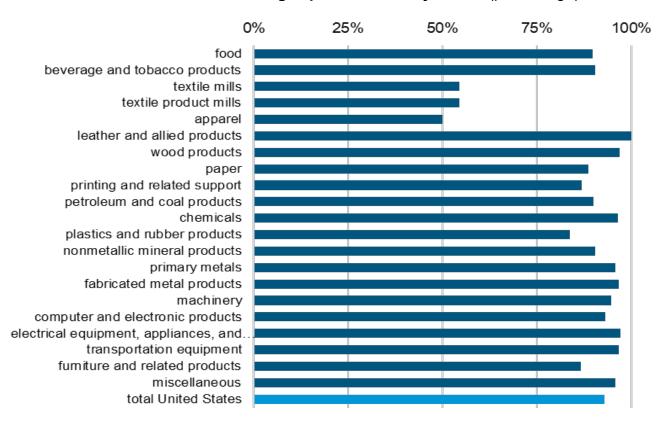






EIA Reports that Most U.S. Manufacturing Sectors Cannot Switch from Natural Gas to Another Fuel

Non-switchable natural gas percent used by sector (percentage)

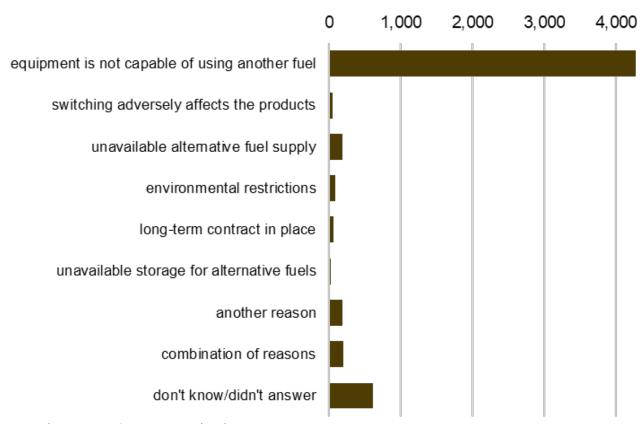






EIA Reports that <u>Due to Equipment Limitations</u>, Most Natural Gas Cannot Be Switched to Another Fuel

Natural gas fuel switching limitations by reason (billion cubic feet)







2025 Climate Legislation Directed at Manufacturing GHG Emissions

- Carbon Border Adjustment Mechanism (CBAM) legislation:
- S. 3422 Senator Whitehouse (D-RI);
- S.3198 Senator Cassidy (R-LA)
- Sept: White House "Task Force on Climate, Trade and Industrial Competitiveness" has announced a pilot project to gather GHG intensity information on EITE industries.



Carbon Border Adjustment Mechanism (CBAM)

- CBAM: The most consequential climate policy for manufacturing!!
- The U.S imports more embedded carbon in products than any country in the world.
- U.S. manufacturing: low carbon intensive.
- Would impose a carbon tariff on imported products with higher carbon intensity.



Carbon Border Adjustment Mechanism (CBAM)

- Focused primarily on EITE products: chemicals, steel, aluminum, glass, cement, paper, etc.
- EU in implementation phase.



Carbon Cap and Trade

- "Carbon Cap & Trade" legislation. HR 9230, Tonko-(D-NY)
- Sets a cap on GHG emissions and requires scheduled reduction levels.
- Provides allowances to EITE industries.
- Results in "carbon leakage." Companies move facilities offshore.

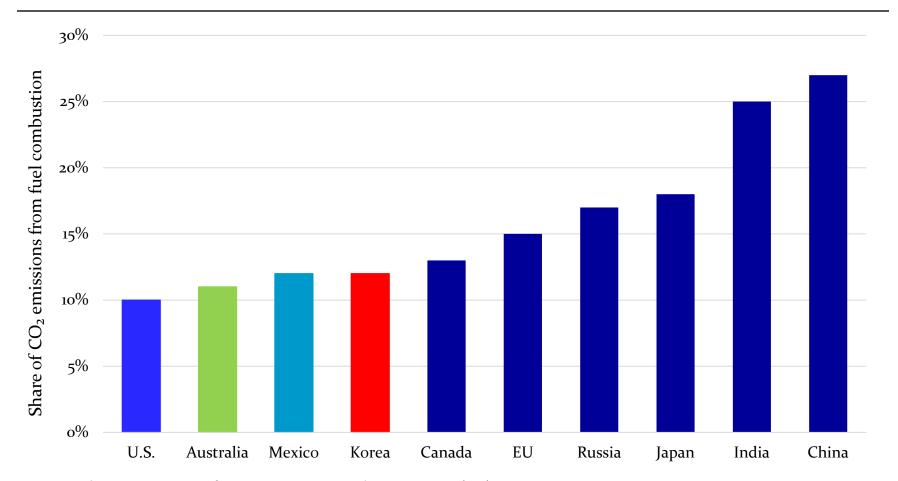


Tax CO2 for Revenue

- Democrats introduce "The Polluter Pays Climate Fund": H.R. 9573/S. 5054:
- Imposes a fee on companies responsible for emitting 1 billion tons of GHGs from 2000 to 2022. Raises \$1 trillion.



As Compared to the U.S., China and India's CO2 Emissions are 2.7 Times and 2.5 Times Higher







China Manufacturing CO₂ Emissions/Value Added Are 3.8 Times Higher Than U.S. Manufacturing

| Country | Manufacturing - Value Added (\$Billions, 2022) | Manufacturing Industries and Construction (Million tonnes of CO2, 2021) | Million Tonnes of CO2/Manufacturing Value Added |
|---------|--|---|---|
| EU | 2,497.0 | 379.5 | 0.15 |
| U.S. | 2,497.1 | 445.8 | 0.18 |
| China | 4,975.6 | 2,834.4 | 0.57 |
| India | 456.1 | 559.4 | 1.23 |

Source: Greenhouse Gas Emissions from Energy, International Energy Agency (IEA) The World Bank, http://data.worldbank.org/indicator/NV.IND.MANF.CD



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