



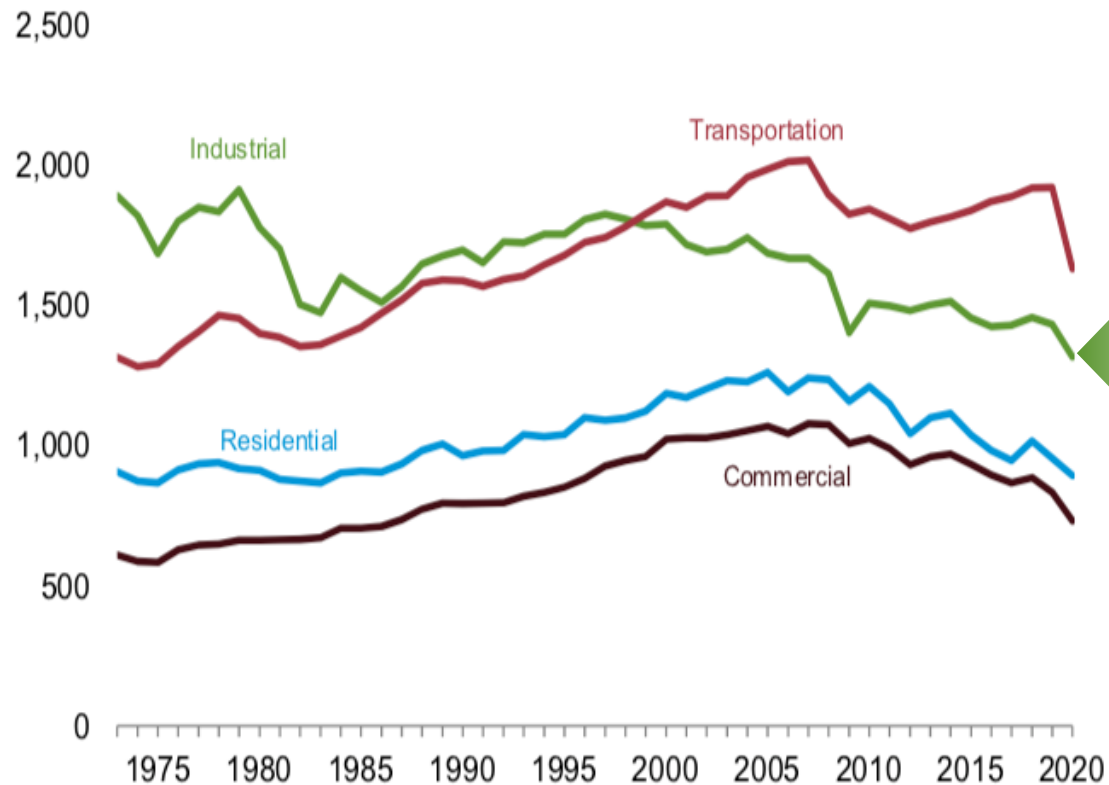
# The Role of CCUS in Implementing Net Zero Industry

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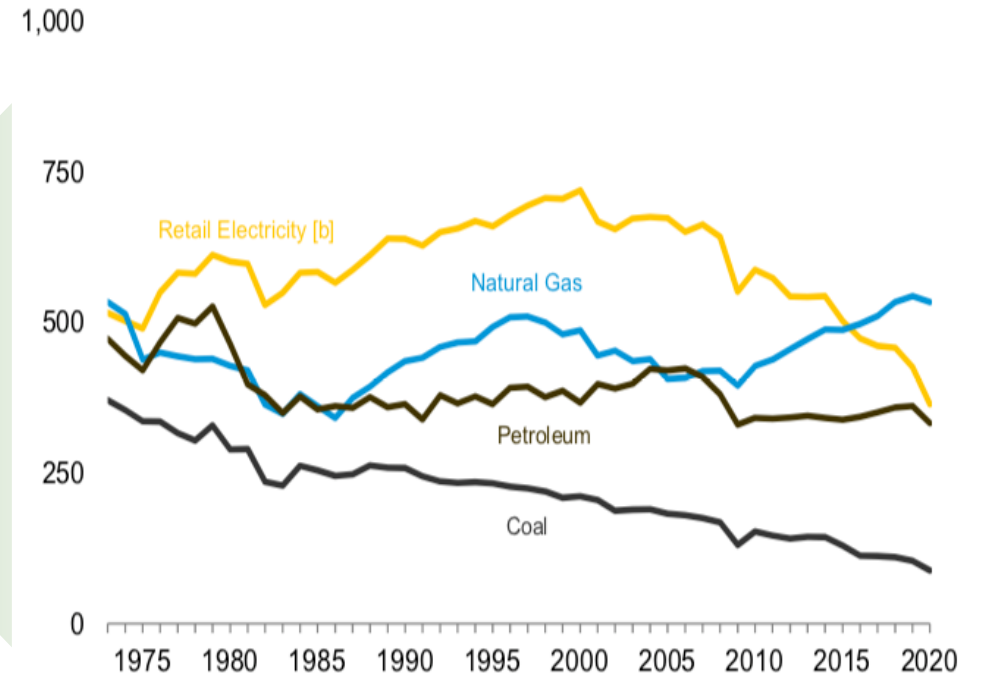
# U.S. industrial emissions are roughly flat over the last decade, even with coal replacement

(Million Metric Tons of Carbon Dioxide)

Total [a] by End-Use Sector [b], 1973–2020

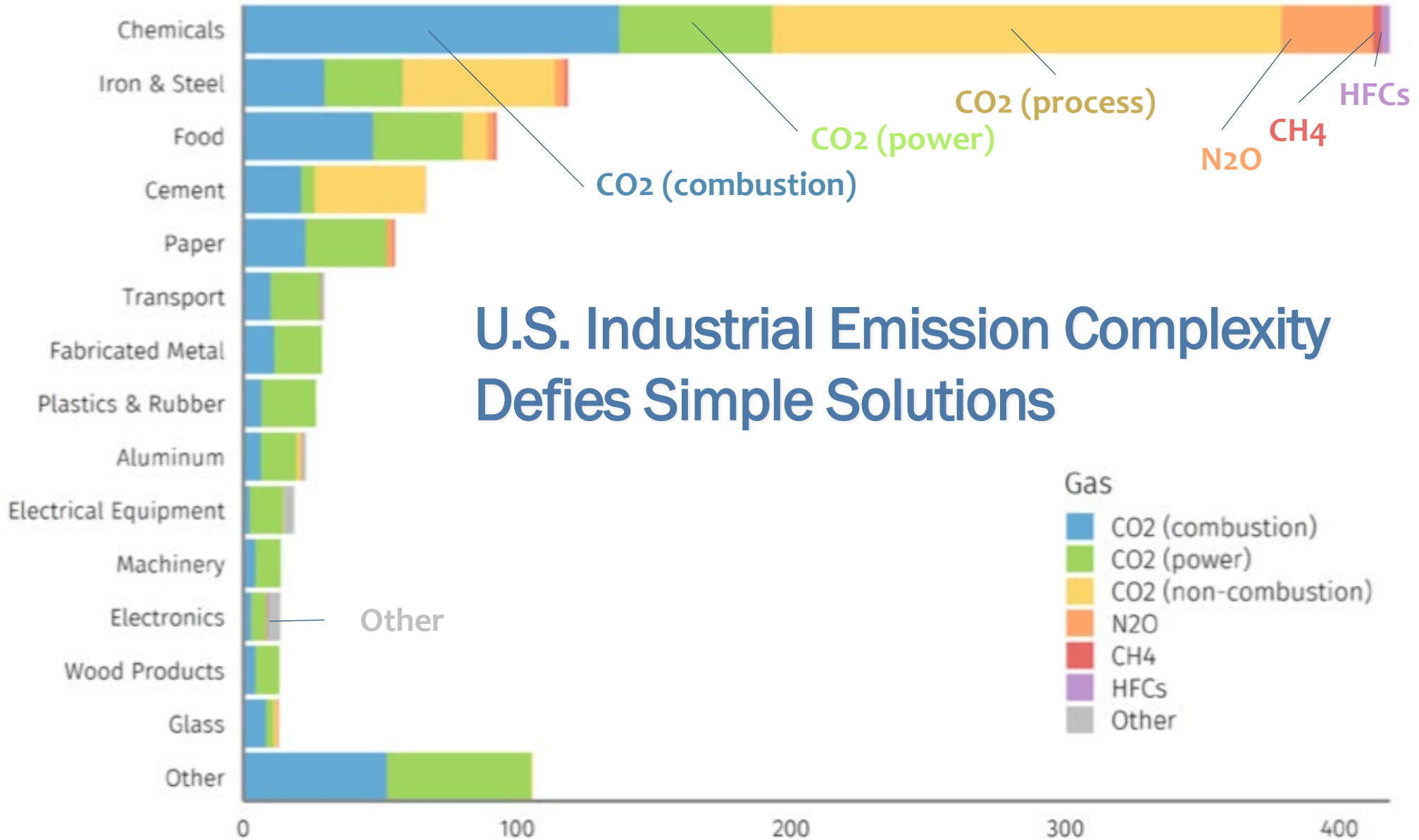


Industrial Sector by Major Source, 1973–2020



Energy emissions from U.S. Energy Information Administration

Million metric tons of CO<sub>2</sub>e



# Multiple technical advances will be beneficial

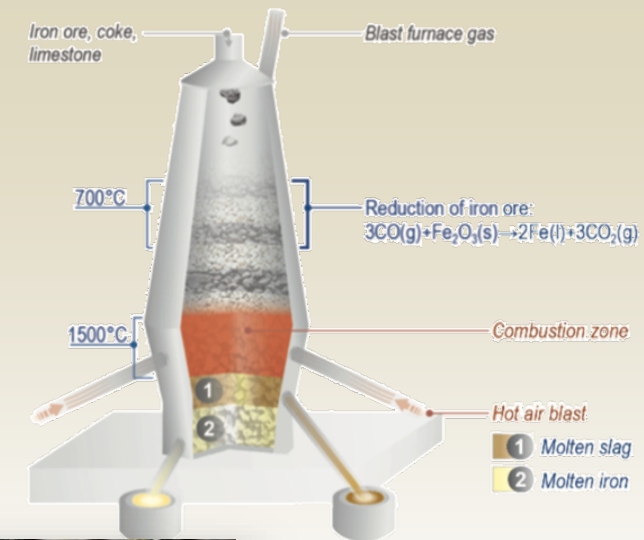
**Carbon capture** on fossil processes  
Atmospheric **removal methods**

Better **electrical heating** options

**Electrochemistry** for hydrogen and chemicals from CO<sub>2</sub>

**Reduced carbon intensity** of fuels  
(hydrogen and biofuels)

**Offsets** need development and vetting



# Industry will welcome policy action

Investment and international cooperation

Infrastructure for CO<sub>2</sub> removal and storage

National clean products standards

Standards for carbon removals as offsets

to irreducible emissions



NGOs have published key reports recently

