

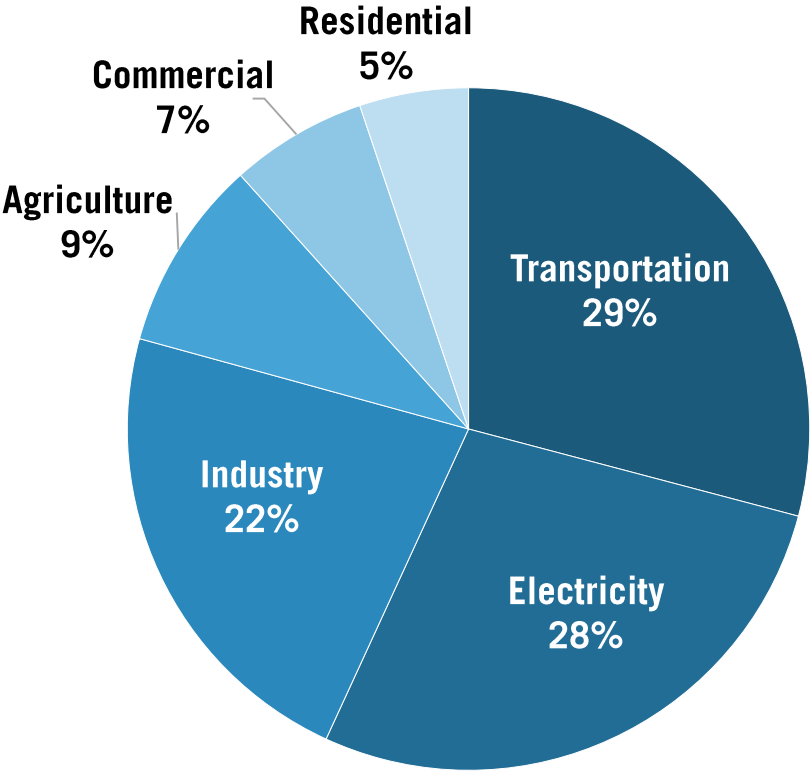
# Greening Industry: The Forgotten Climate Wedge

A Quick Overview

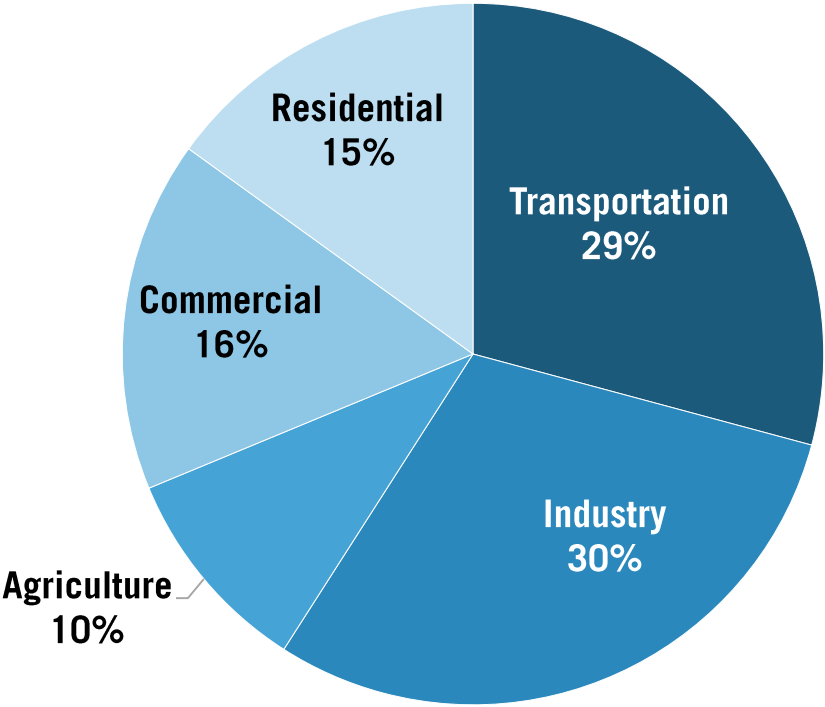
Colin Cunliff

May 13, 2019

# U.S. Greenhouse Gas Emissions (2017)



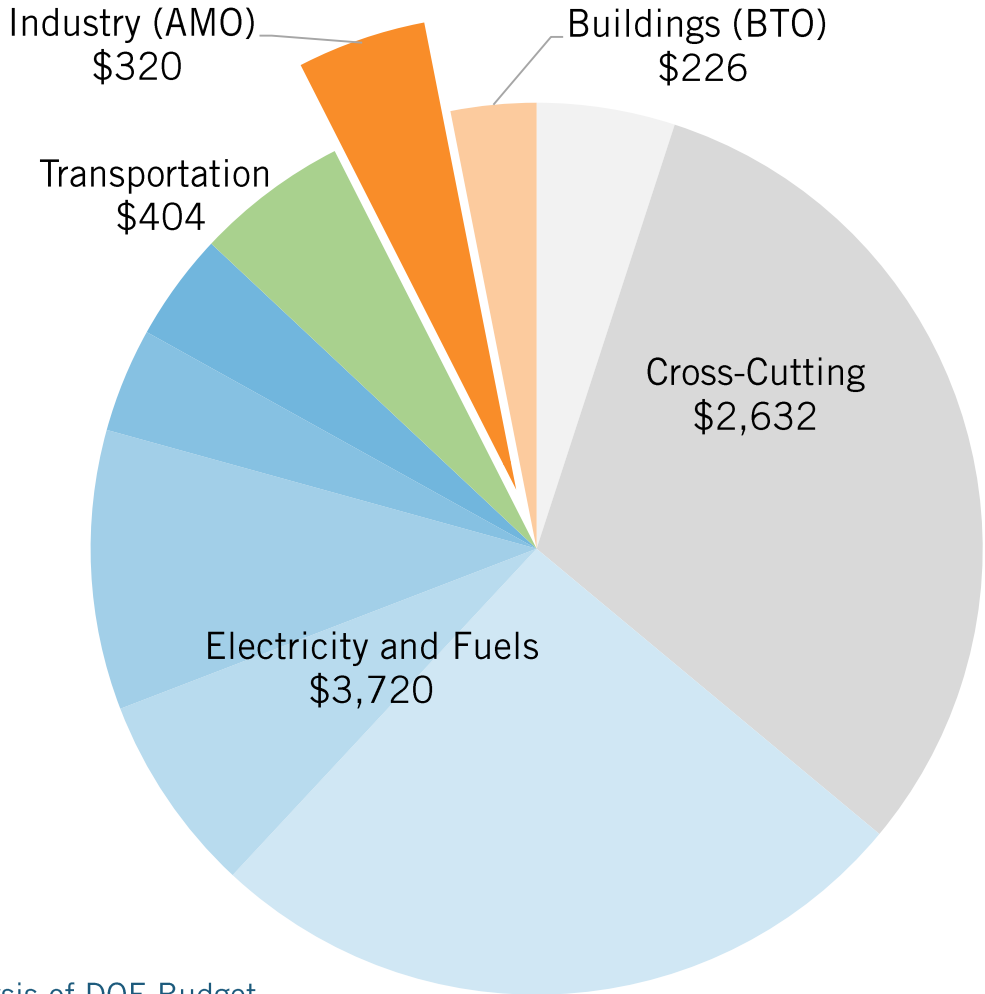
Industry direct emissions: 1,437 MMT CO<sub>2</sub>e  
Indirect emissions (from electricity): 479 MMT CO<sub>2</sub>e



Industry total emissions: 1,916 MMT CO<sub>2</sub>e

Source: EPA (2019) GHGI, Table ES-6, ES-7.

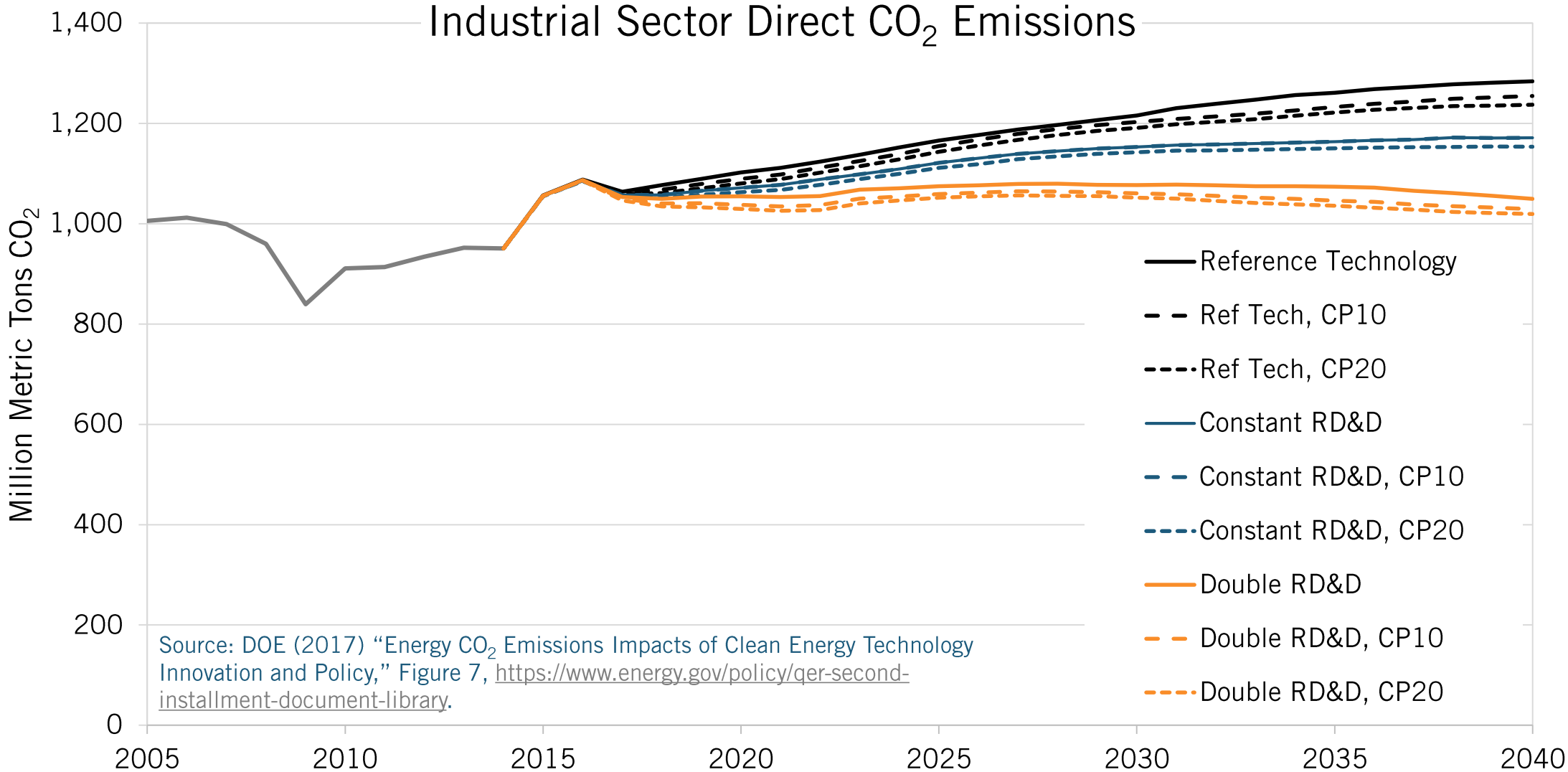
# DOE Energy RD&D Budget (FY 2019) by Sector



Cross-cutting	ARPA-E
	Basic Energy (BES)
Electricity and Fuels	Nuclear (NE + FES)
	Renewable Power
	Fossil (FE)
	Electric Grid (OE)
	Bioenergy & Hydrogen
End-Use	Transportation
	Industry (AMO)
	Buildings (BTO)

Source: ITIF analysis of DOE Budget

# Industrial emissions are remarkably inelastic to climate/energy policy.



# Further Reading

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- C2ES (2018) “Climate Innovation 2050: Decarbonizing U.S. Industry”  
<https://www.c2es.org/document/decarbonizing-u-s-industry/>.
- Third Way (2018) “Industry Matters: Smarter Energy Use is Key for US Competitiveness, Jobs, and Climate Efforts”  
<https://www.thirdway.org/report/industry-matters-smarter-energy-use-is-key-for-us-competitiveness-jobs-and-climate-effort>.
- ITIF (2018) “An Innovation Agenda for Deep Decarbonization”  
<http://www2.itif.org/2018-innovation-agenda-decarbonization.pdf>.