



November 11-16, 2018

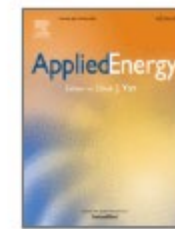
Aspen, CO

**Co-Chairs: Jens Dinkel,
Jeffrey Rissman, Nan Zhou**



Applied Energy

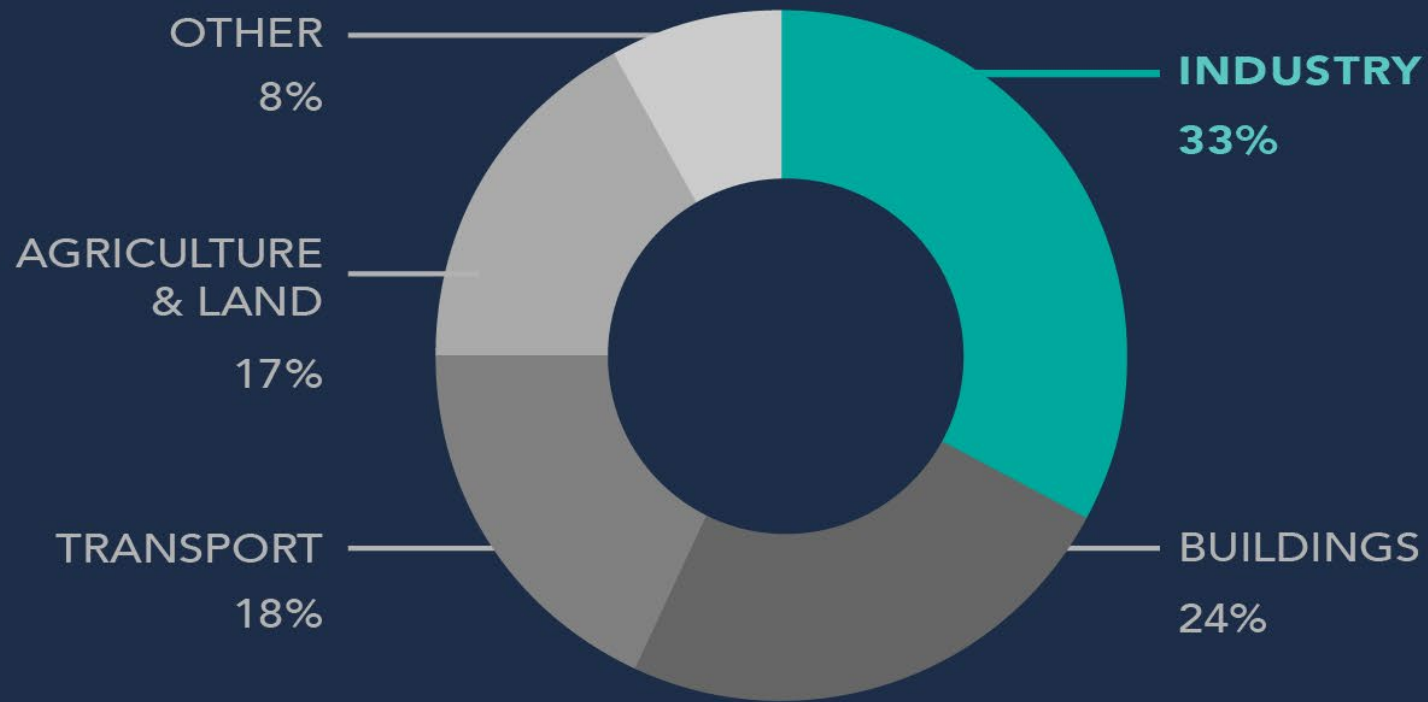
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Technologies and policies to decarbonize global industry: Review and assessment of mitigation drivers through 2070

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OF GLOBAL GREENHOUSE GAS EMISSIONS

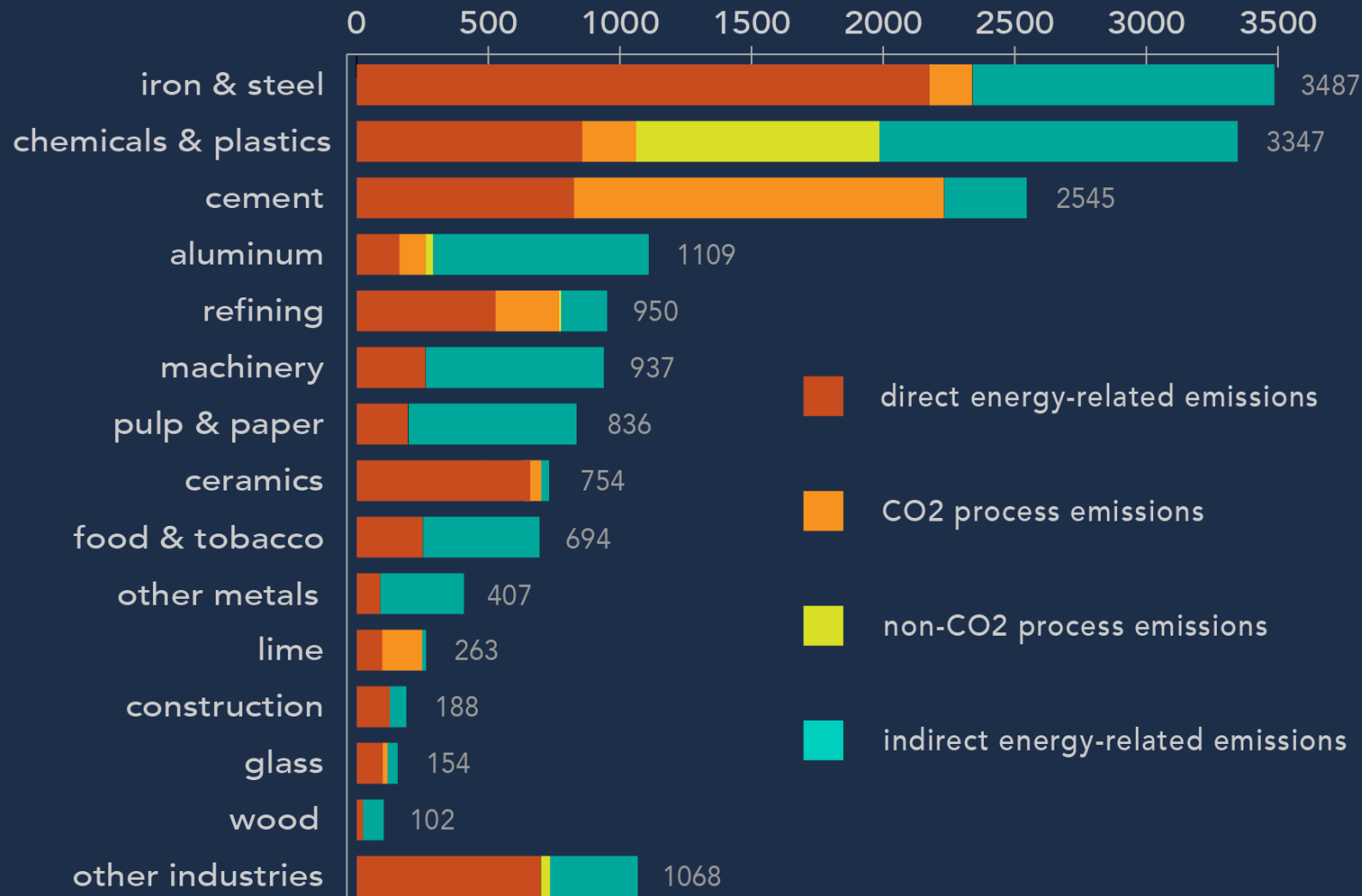


The top 10 industries
account for 90% of global
industry emissions

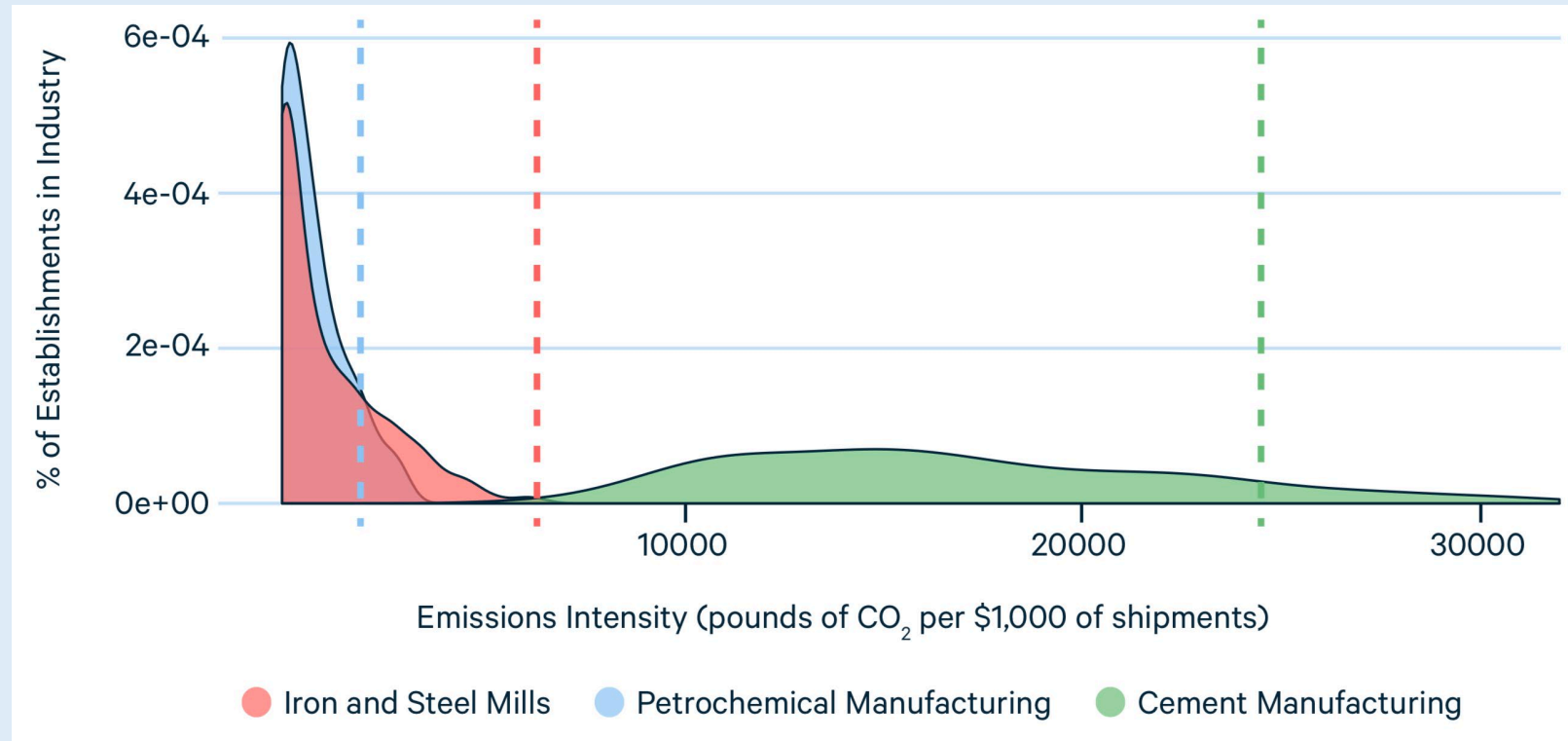
the top 3 industries
account for over 55% of global
industry emissions



GLOBAL GREENHOUSE GAS EMISSIONS BY INDUSTRY* IN 2014



Distribution of Emissions Intensities in Three Key US Industries

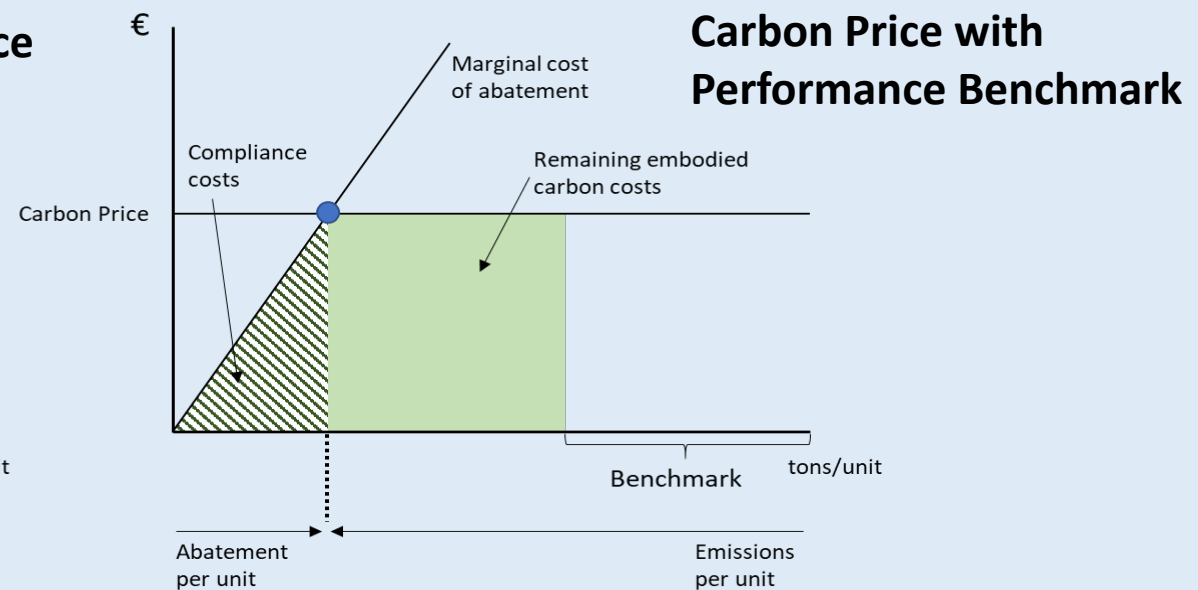
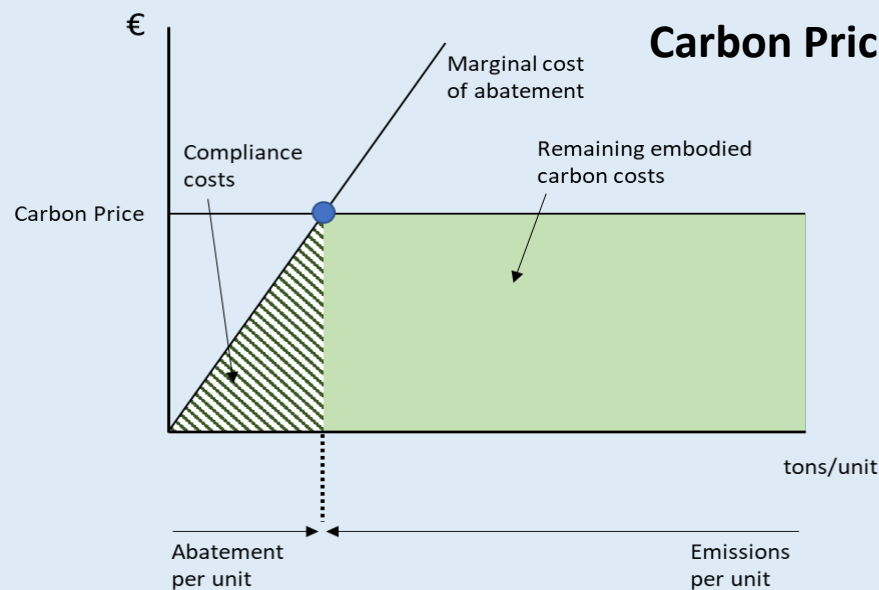


Gonzales, Linn and Morgenstern: RFF Issue Brief 20-06

- Improving emissions rates among the ten percent worst performers (vertical lines) would yield 6.5 million metric tons of near-term emissions reductions
- However, deep decarbonization requires substantial innovation and investment

Policy to Drive Innovation and Support Industry

- Carbon pricing offers greatest efficiency, but faces challenges
- Flexible emissions performance standards drive innovation and protect markets



Löfgren, Burtraw and Keyes: RFF Report 20-03

- R&D, efficiency standards, government procurement, labeling and data disclosure enable innovation and industrial leadership



Net Zero by 2070: Decarbonizing Global Industry

Christopher Bataille: *Institute for Sustainable Development and International Relations, and Simon Fraser University*

Nan Zhou: *Lawrence Berkeley National Laboratory*

Jeffrey Rissman: *Energy Innovation*

April 30, 2020