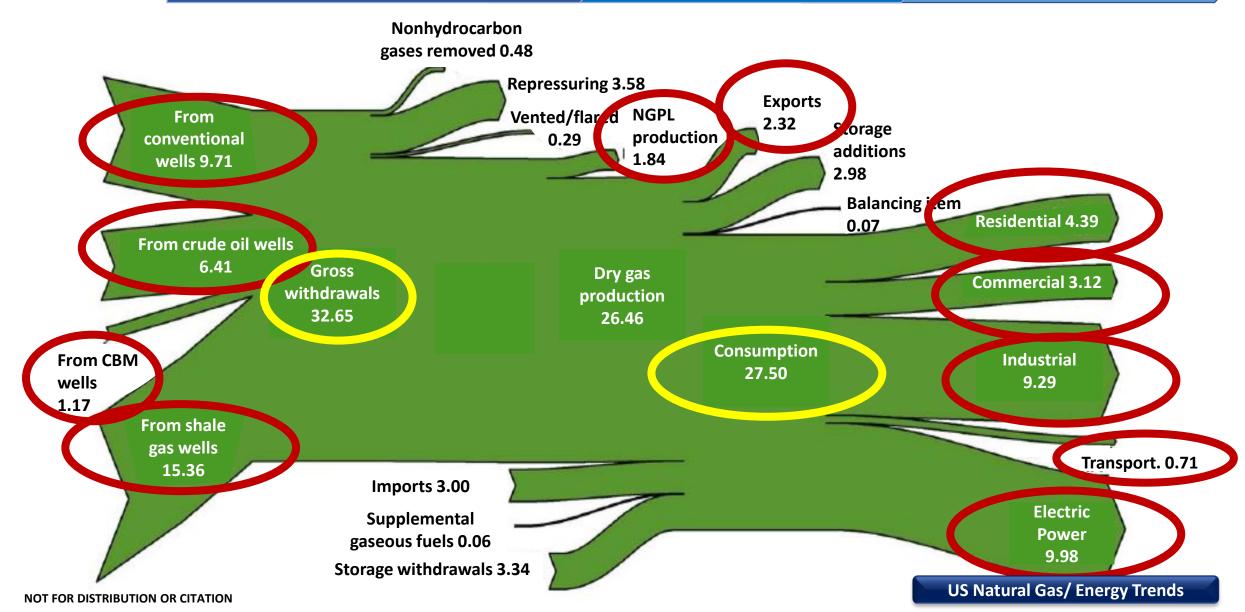


"Achieving a Net Zero Emissions Energy System by 2050"

Melanie Kenderdine
Principal, Energy Futures Initiative
COP 24
Katowice, Poland
December 12, 2018

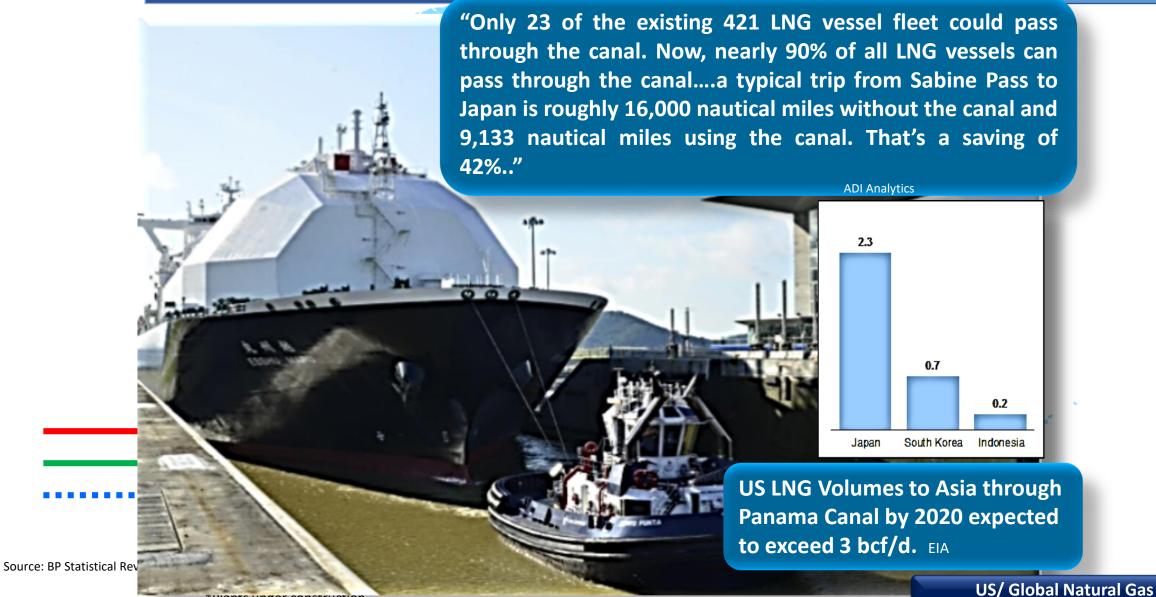


US Natural Gas Flows, 2016 (Tcf)





Significant Global LNG Volumes by 2020





Global Carbon Emissions, Key Countries/Regions/US

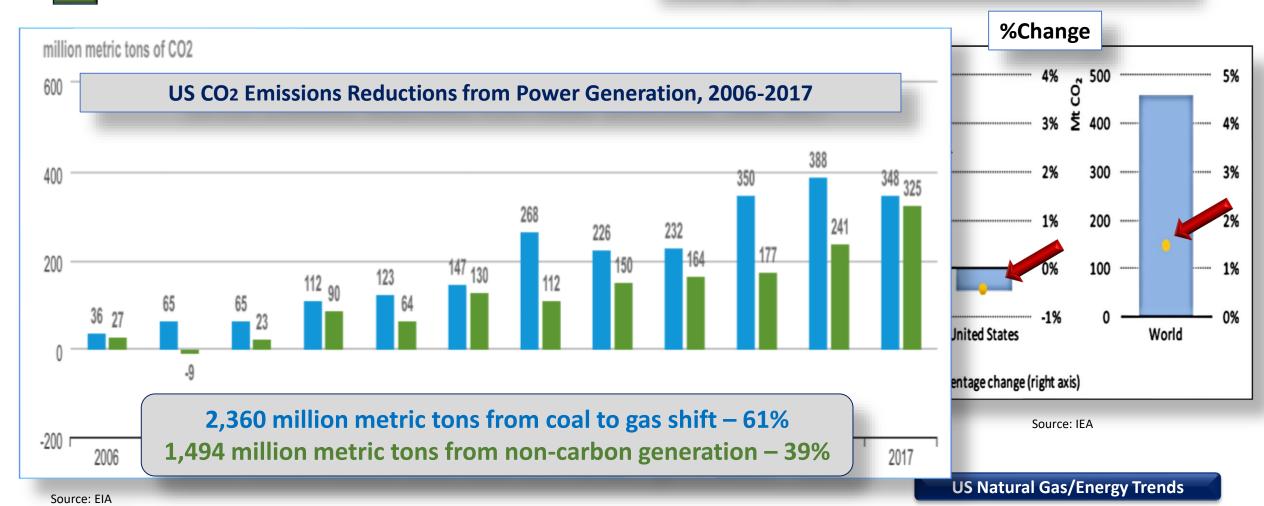


Reductions from coal to gas shift



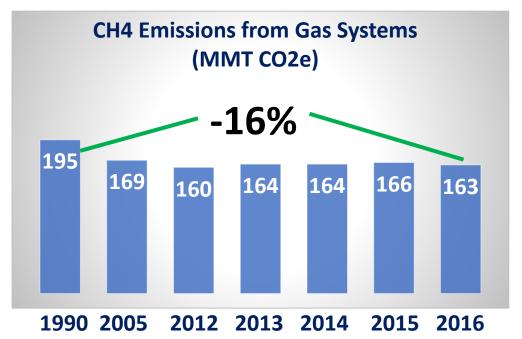
Reductions from non-carbon generation

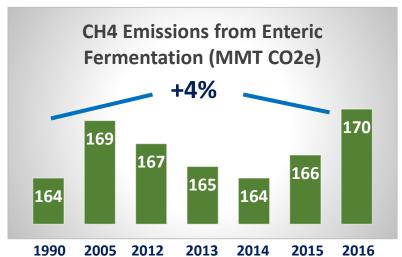
Change in Energy-Related CO₂ Emissions, 2016-17

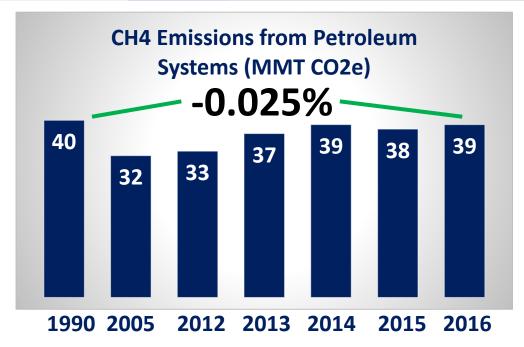


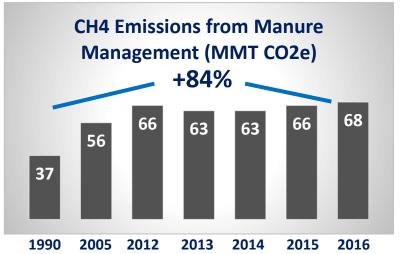


US Methane Emissions: Select Sources, Trends





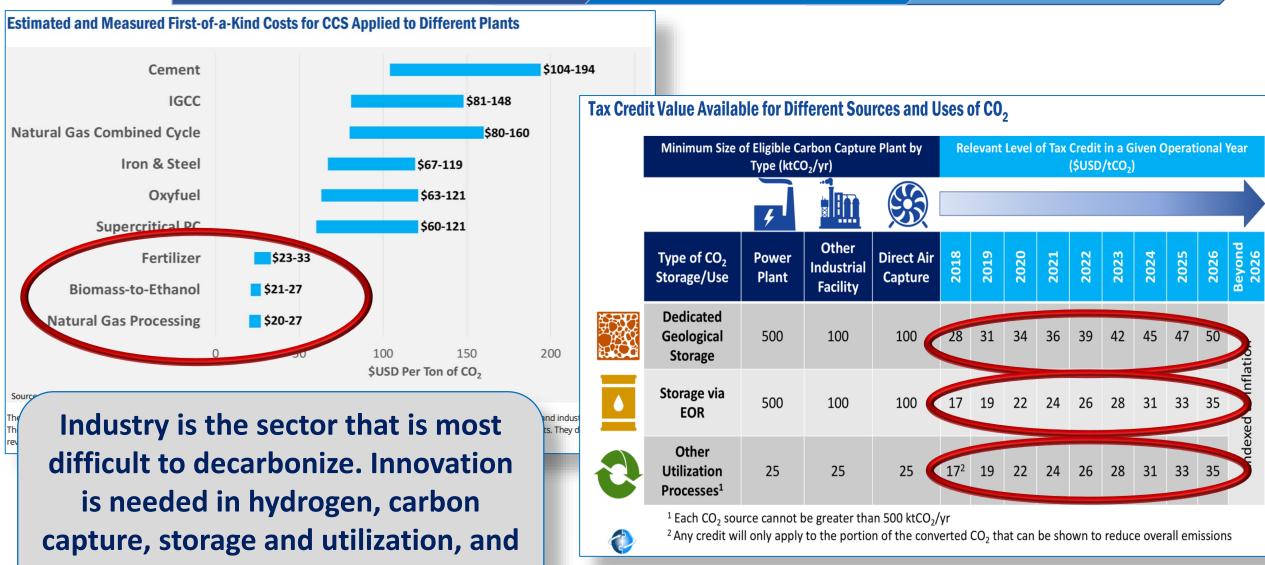






biogas.

Expanded 45Q Tax Credit for Carbon Capture, Utilization and Storage (CCUS)



US Natural Gas/Policy