Global Methane Emissions and Mitigation Opportunities

Why Target Methane?

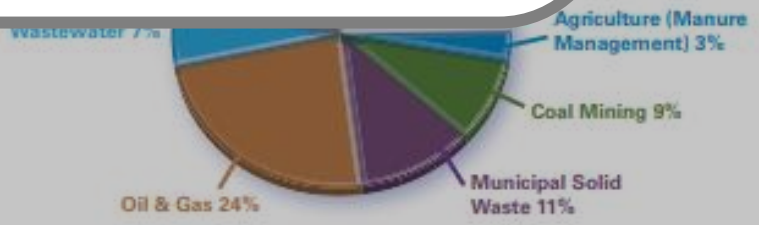
Methane is the … for about 20 percent of gl… …pan in the atmospher… …n smaller quantities … …greater.[1] As a result …

Methane is … …of organic ma… …trial and municipal … …climate change and … …ty.

Global M… by Secto…

Global anthro… …ion 27% by 2020 are es… metric tons of … Approximately … emissions will co… targeted by the Glo… (GMI): agriculture (manure management), coal mines, MSW, oil and natural gas systems, and wastewater (see Figure 1).

GMI Partner Countries (see www.globalmethane.org for complete list) represent approximately 70 percent of the world's estimated anthropogenic methane emissions. Partner countries' major methane emission sources vary greatly, and thus the opportunities for methane capture and use in each country also vary.

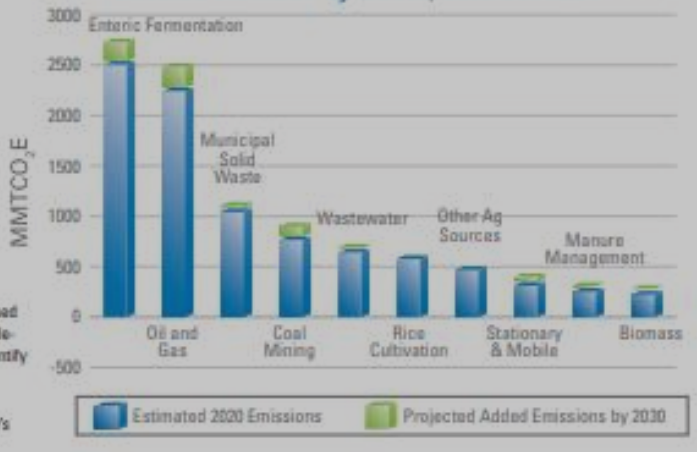


Global Emissions Projections

Global anthropogenic methane emissions are projected to increase by nearly 9 percent over anticipated 2020 levels to 10,220 MMTCO$_2$E by 2030 (see Figure 2).

From 2020 to 2030, the relative proportions of the agriculture (manure management), coal mines, and wastewater sectors are projected to

Figure 2: Estimated and Projected Global Anthropogenic Methane Emissions by Source, 2020 and 2030



[1] The fifth report of the Intergovernmental Panel on Climate Change (IPCC), released in 2013, included methane GWP values of 28 to 34. The United States and other developed countries are currently using the fourth report's GWP value of 25 to quantify the climate impact of U.S.-government-supported methane reduction projects.

[2] Unless otherwise noted, all data are from U.S. Environmental Protection Agency's (U.S. EPA's) *Global Anthropogenic Emissions of Non-CO2 Greenhouse Gases: 1990–2030* report. www.epa.gov/climatechange/Downloads/EPAactivities/EPA_Global_NonCO2_Projections_Dec2012.pdf.