

(22-220414-C) Biogas as a Replacement for Fossil Fuels to Reduce CO₂ Emission Rate

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From the 1960s until 2021, CO₂ levels in the atmosphere grew. In 2021, the CO₂ levels reached 416.45 ppm. Around two-thirds of the energy imbalance is caused by growing CO₂ levels. That is the main reason for the present global warming. Temperature increases of 3°C are possible if CO₂ emissions reach 500 ppm (5.4 degrees Fahrenheit). Climate change and rising sea levels threaten the world's food supply and disruption of mass migration and ecological variety. We compared the change in carbon emissions from January 1 to February 28th, 2022, to the same period in 2021. An analysis of CO₂ emission rates for 2021 and 2022 shows both increases and decreases. It rises (2.1%) due to power (0.1%), industries (0.1%), ground transportation (0.8%), residential (0.5%), domestic aviation (0.2%), and international aviation (0.4%). Combustion of fossil fuels produces most CO₂. Renewable energy sources like biogas may replace fossil fuels in residential, industry, and ground transportation. As a consequence, emissions are lowered and the energy imbalance is addressed.

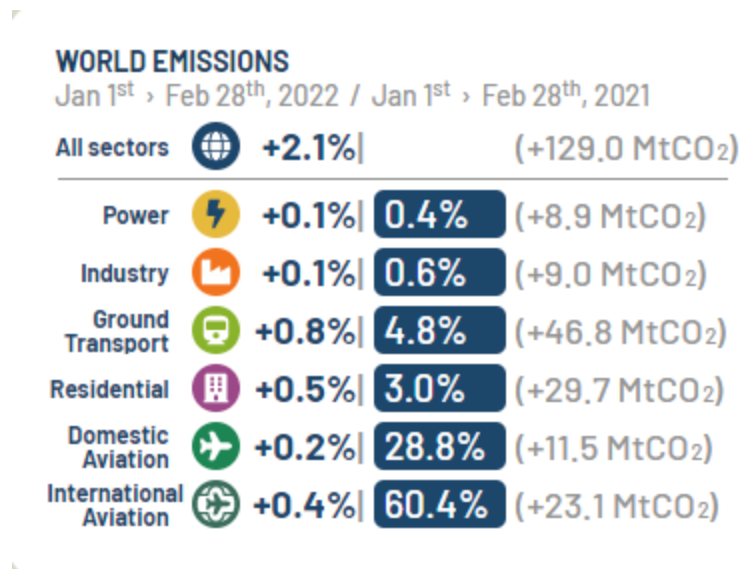


Figure 1. CO₂ emissions variations (Source: <https://carbonmonitor.org/>)