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percent from 1980 to 2020 direct measurements made at gml show n 2 0 growth rates were higher from 2020 to 2022 than any previous years since 1980 the average growth rate in 2020 2022 was more than 40 percent higher than from 2010 to 2019 the transformation of the global economy needed to achieve net zero emissions by 2050 would be universal and significant requiring 9 2 trillion in annual average spending on physical assets 3 5 trillion more than today to put it in comparable terms that increase is equivalent to half of global corporate profits and one quarter of total in 2020 the top ten greenhouse gas emitters were china the united states india the european union russia indonesia brazil japan iran and canada these data include co 2 ch 4 n 2 o and fluorinated gas emissions from energy agriculture forestry and land use change industry and waste the breakdown of co 2 emissions mirrors total greenhouse gas emissions closely the distribution of methane emissions across sectors is notably different this chart shows methane emissions by sector measured in tonnes of carbon dioxide equivalents

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