SECTION 02

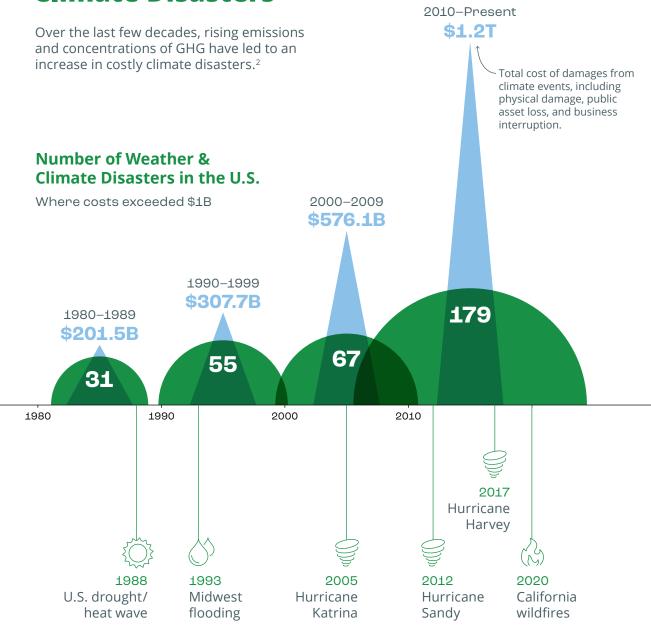
The Need for Climate Action

IN THIS SECTION, WE COVER:

- 7 A brief history of climate change
- 8 The largest CO2 emitting-countries
- 9 U.S. CO₂ emissions by sector
- 10 A new role for electric utilities



Compounding Climate Disasters



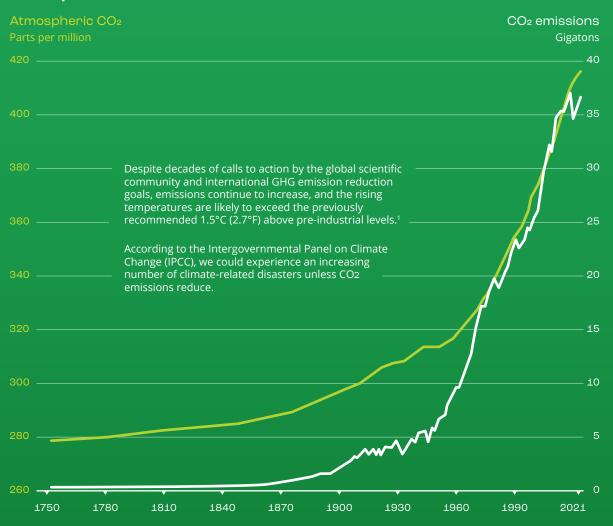
Source: NOAA²



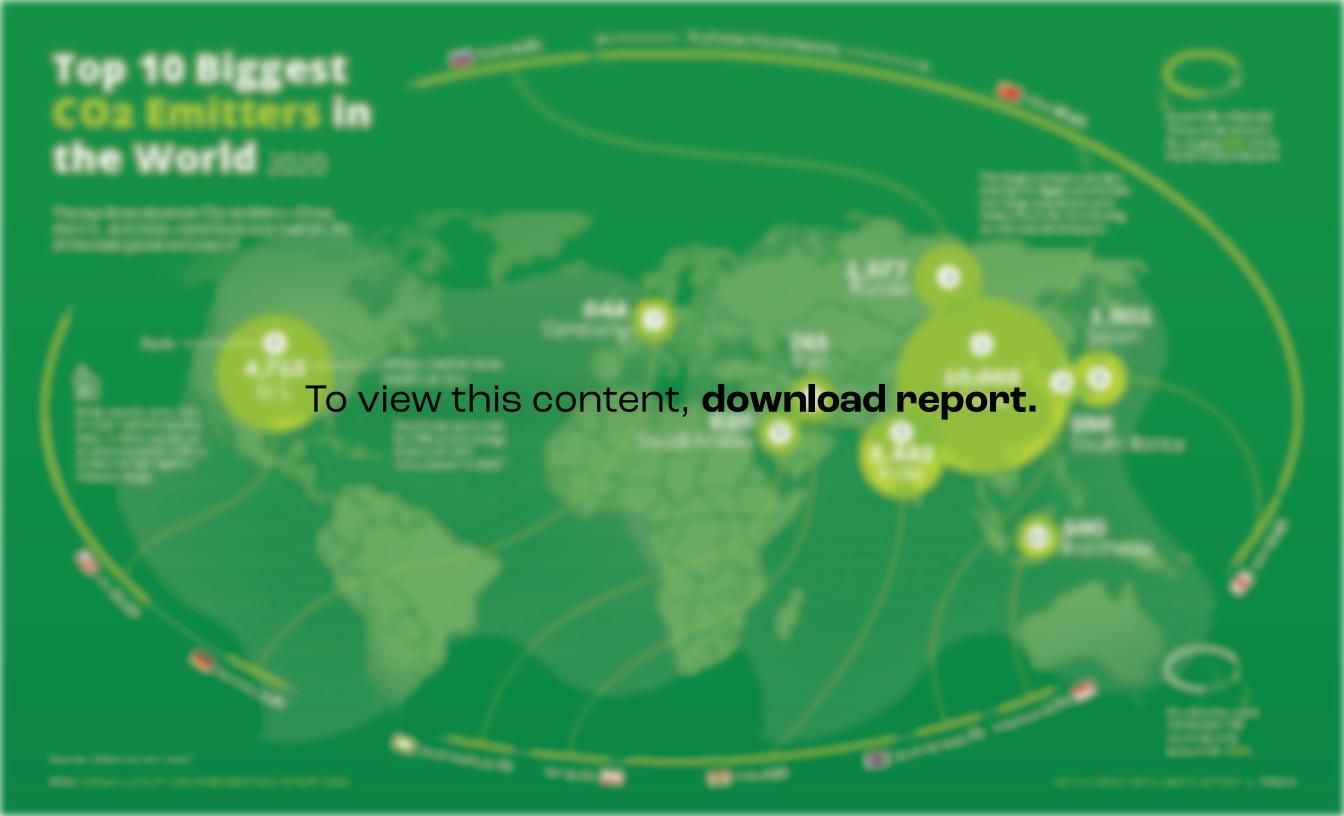
From the beginning of the Industrial Revolution in the 1750s, human activities—like the burning of fossil fuels including coal, oil, and gas—have been the primary reason for increased GHG emissions in the atmosphere.

Atmospheric concentrations of CO2 are now 50% more than pre-Industrial Revolution levels, comparable to concentrations last seen around 4 million years ago. 3 Since the late 19th century, the Farth has become about 1.1°C (2°F) warmer 4

CO2 Emissions and Atmospheric Concentration 1750–2021



Source: NOAA5





At the Forefront of Decarbonization

Reimagining the Role of Utilities

One of the challenges of decarbonizing the power sector is sufficiently reducing emissions while guaranteeing energy reliability, security, and affordability. Despite this, the country's biggest utilities have the opportunity to facilitate economy-wide decarbonization by being proactive in achieving climate goals.

This is mainly because the decarbonization of utilities and electric power will advance decarbonization in all other sectors that use electricity.



As electric transportation becomes a mainstay and households get electrified, utilities can reduce economy-wide emissions by providing clean electricity from sustainable sources.



In addition, an increasing number of investors are now considering the impact of a company's economic activities on ecological well-being and sustainability. By leading the decarbonization charge, utilities can position themselves to attract investment from climate-conscious investors.

A strengthened focus on reducing dependency on coal and natural gas, and a shift towards renewable sources, must be made.

Electricity from low-carbon sources like solar, wind, hydro, and nuclear can help limit the devastating impacts of climate change.