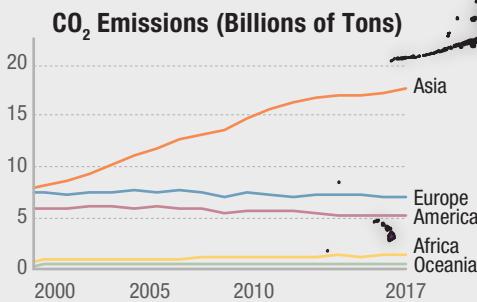


GOAL 9: BUILD RESILIENT INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALIZATION, & FOSTER INNOVATION

SDG Target 9.4

Upgrade infrastructure and retrofit industries to make them sustainable

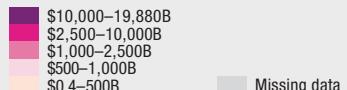
- ▶ 32 billion tons of CO₂ were emitted globally in 2017



- ▶ The two largest national economies by GDP also emit the most CO₂ worldwide

Gross Domestic Product Purchasing Power Parity (Billions of USD; 2017)*

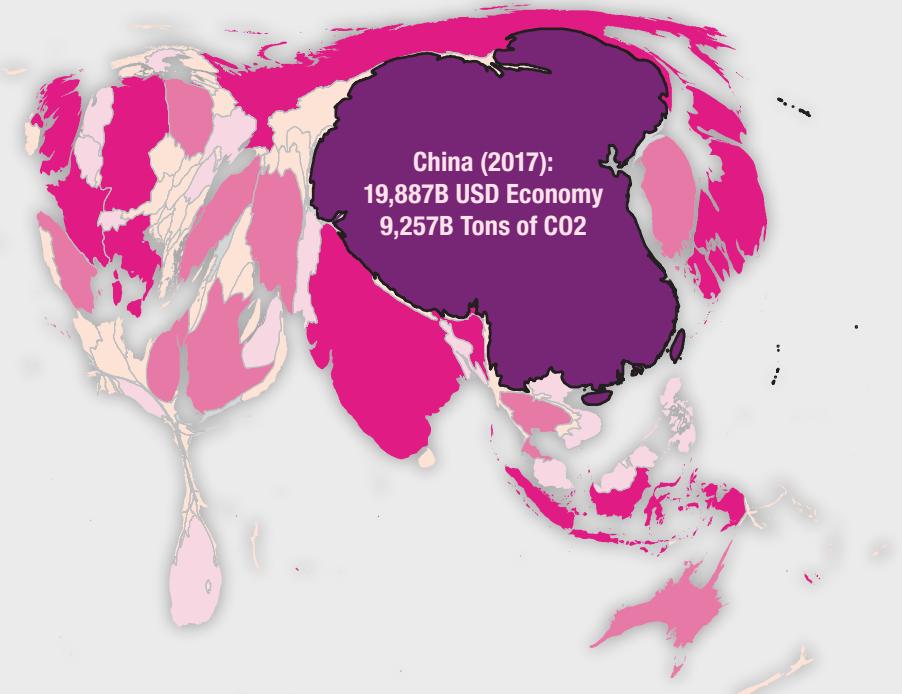
*Area resized by CO₂ emissions from fuel combustion (2017)



Missing data



◀ A Mongolian family uses solar panels to generate power for their ger, a traditional Mongolian tent, in Tarielan, Province of Uvs in Mongolia. The solar panels are sponsored by the United Nations Development Fund to empower herder groups to use clean energy. (Source: UN Photo/Ekinder Debebe, 2009)



The resulting bivariate cartogram visually normalizes GDP by CO₂ emissions, showing dramatic differences among regions. As temperatures rise an estimated 1.5°C by 2100, the cartogram reveals that the Global North has a disproportionate responsibility in reducing CO₂ emissions through sustainable infrastructure and industries.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

