

The Environmental Impact of Bitcoin Mining: The Facts

Despite media headlines around the environmental impact of Bitcoin mining, the truth about its sustainability, energy consumption, and carbon footprint reflects an industry ahead of others with respect to decarbonization.

All data in this document is based on the [Bitcoin Mining Council's Global Bitcoin Mining Data Review \(H1 2023\)](#).

Sustainability

The global Bitcoin mining industry is a leader in sustainability, utilizing energy with a 59.9% sustainable energy mix.

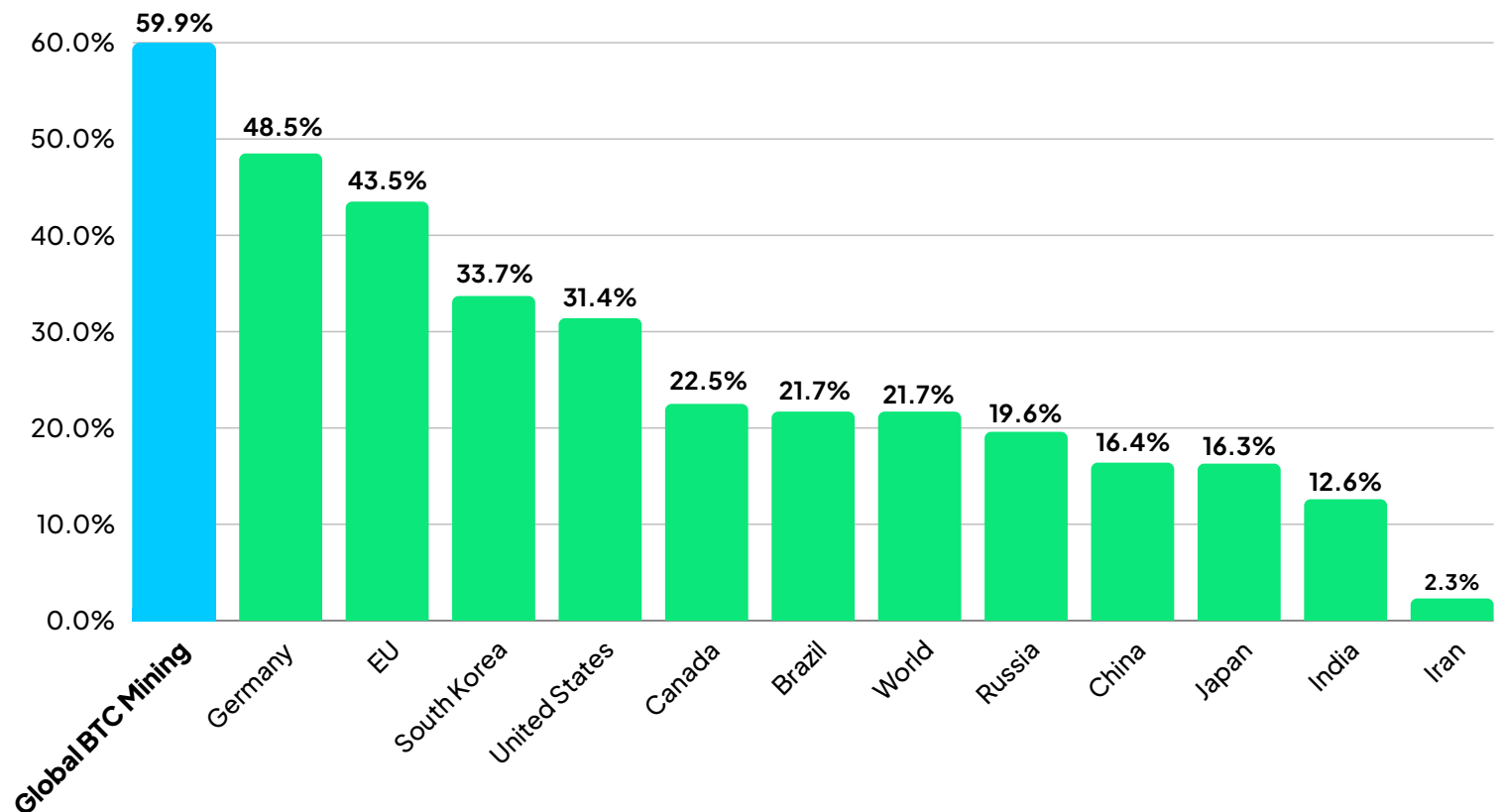
Consumption

Global BTC mining consumes significantly less energy than other industries, such as finance and insurance.

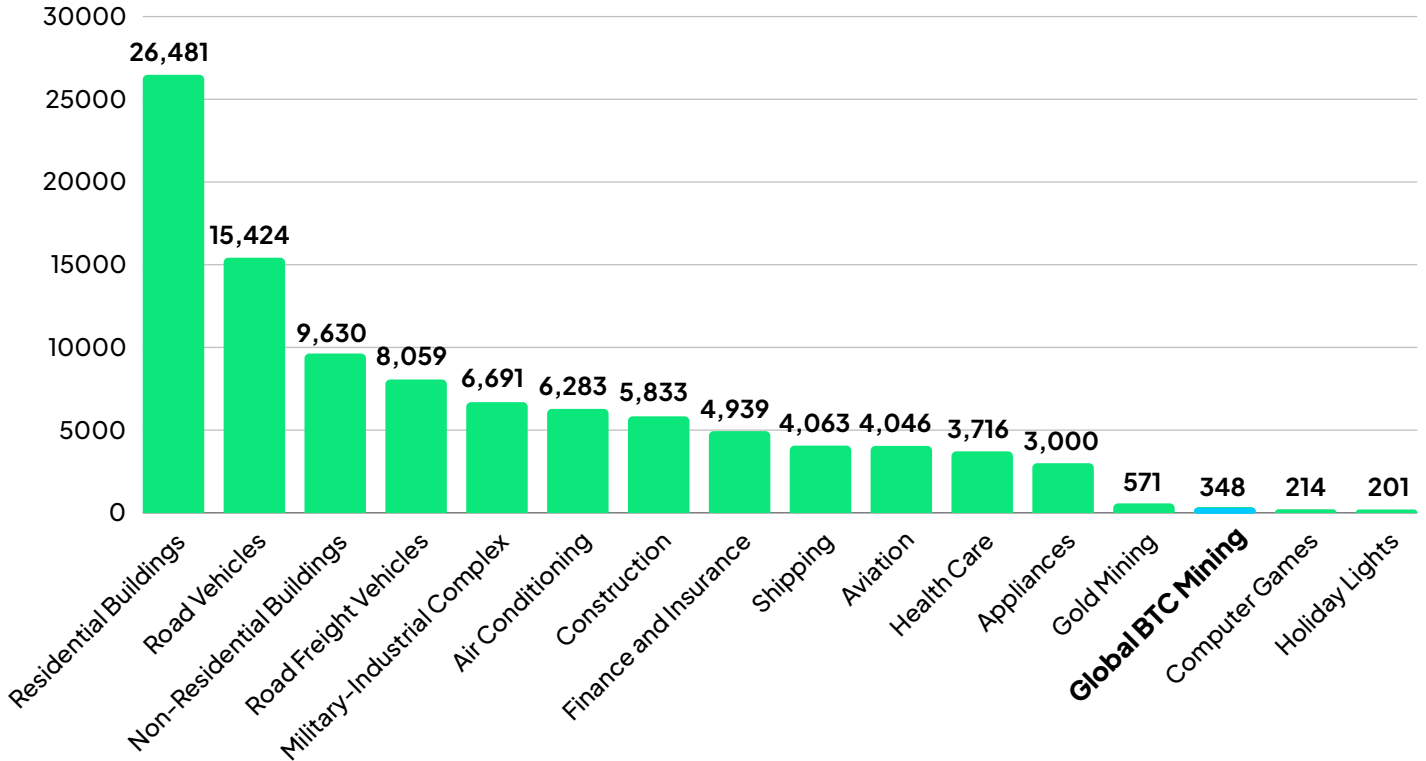
Emissions

Bitcoin mining uses an insignificant amount of global energy (17bps) and generates negligible carbon emissions (11bps).

Sustainable Power Mix: Bitcoin Mining vs. Countries (% of TWh)



Global Bitcoin Mining Energy Use Vs. Other Industries (TWh)



Bitcoin Mining Energy Use Vs. Total Global Energy Use

167,788 TWh
Total Energy Utilized Worldwide

348 TWh
Energy Consumed by Bitcoin Mining on the World's Electric Grid

0.17%
Of the World's Energy Production is Consumed by Global Bitcoin Mining



Bitcoin Mining CO² Emissions Vs. Total Global CO² Emissions

34.8 BMt
Total Estimated CO² Generated Globally

0.05 BMt
Estimated CO² Generated by Bitcoin Mining on the World's Electric Grid

0.135%
Of the World's CO² Production is from Global Bitcoin Mining