873M 27K 329M **4M** Sum of DataCenter_Energy_MWh by Year Sum of CO2_Emissions by Year 100M Sum of DataCenter_Energy_M... Sum of CO2_Emissions 2018 2018 2016 2020 2022 2024 2016 2020 2022 2024 Year Year Sum of CO2_Emissions by Region Sum of CO2_Emissions by Region Region South America 84.06M (9.62%) 161.69M (18.51%) South America Africa 111.31M (12.74%) Africa North America North America Europe 138.82M (15.89%) 124.52M (14.26%) Oceania Europe Asia Oceania 127.62M (14.61%) 125.36M (14.35%)

Avg Renewable

Scenario CO₂ @ 80% Renewables

 ∇

Asia and North America together contribute ~55–60% of global CO₂ emissions from data centers.

200M

150M

100M

Sum of CO2 Emissions

Total Energy (MWh)

50M

0M

Total CO₂ (tons)

- 4 If renewables increased to 80%, global CO₂ emissions would drop by ~65–70% compared to current levels.
- Europe leads with the highest renewable adoption (often >50%), while Africa and the Middle East lag at ~30–35%.