

OMS Results

Preparing for regional visit

Aman Majid - June 2022

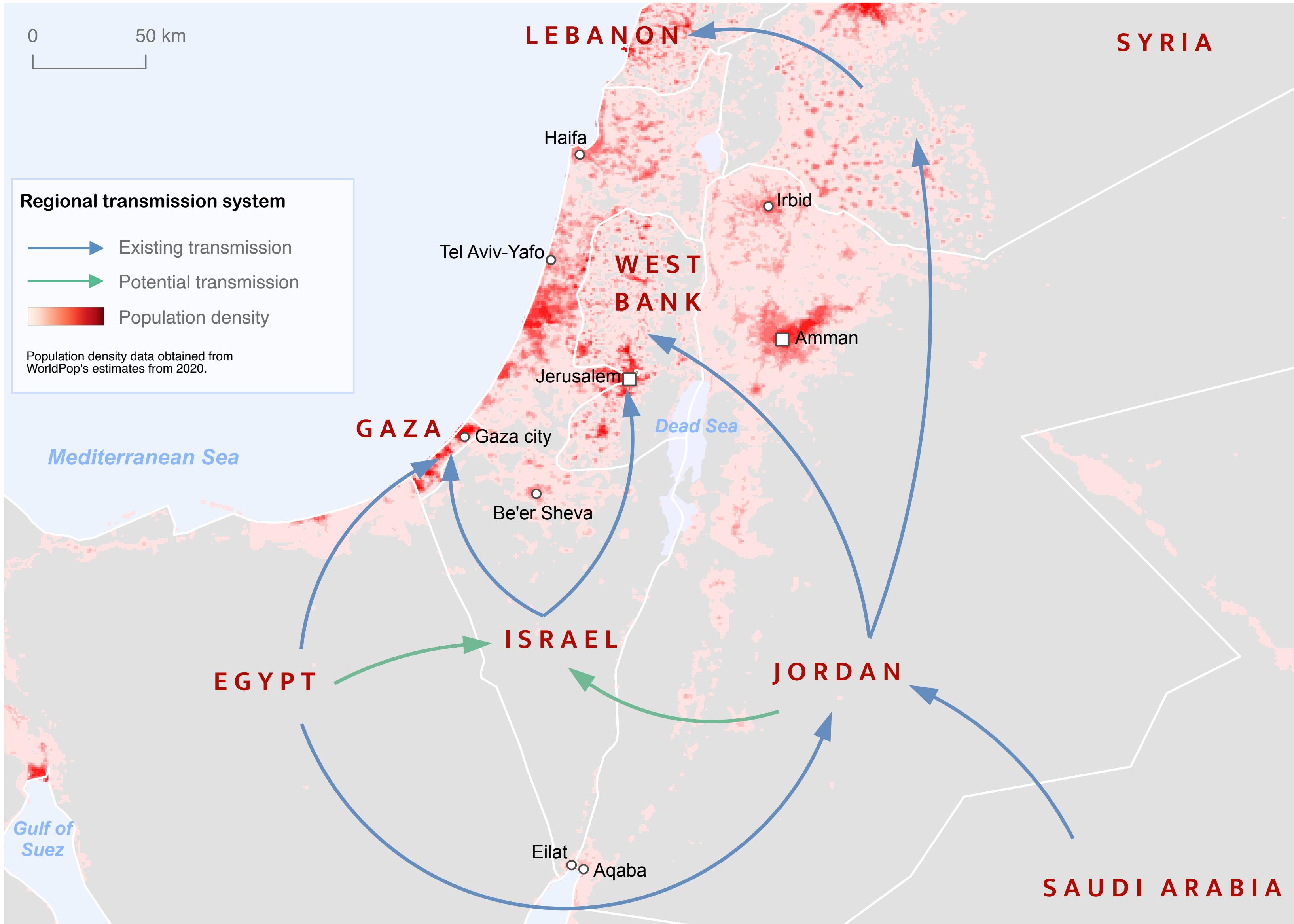


Figure: Existing transmission system configuration and population density.

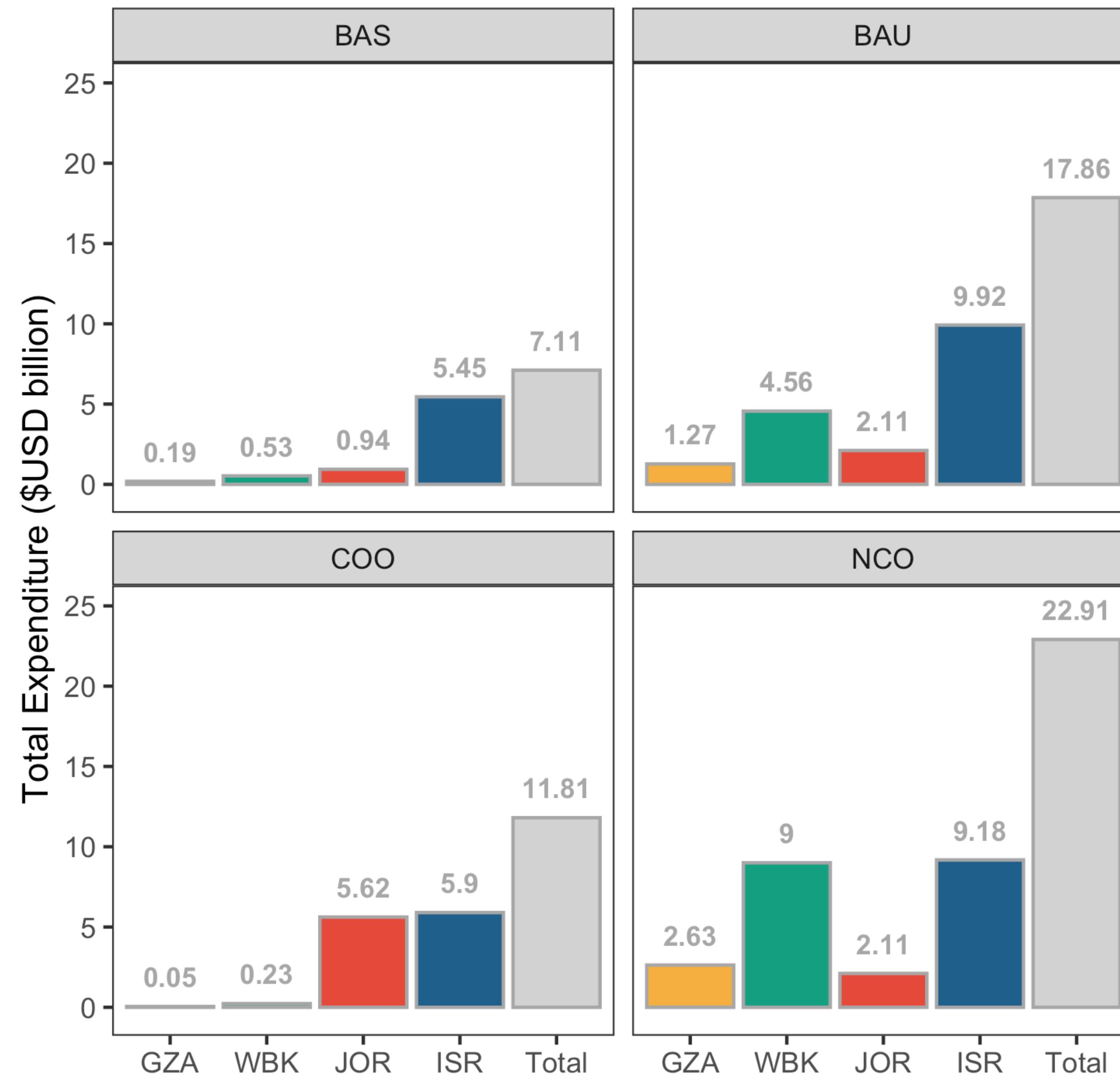


Figure: Total of capital and operational expenditure (\$USD billion) for each region under the four scenarios evaluated. The grey bar shows the sum of expenditures across all four regions for a given scenario.

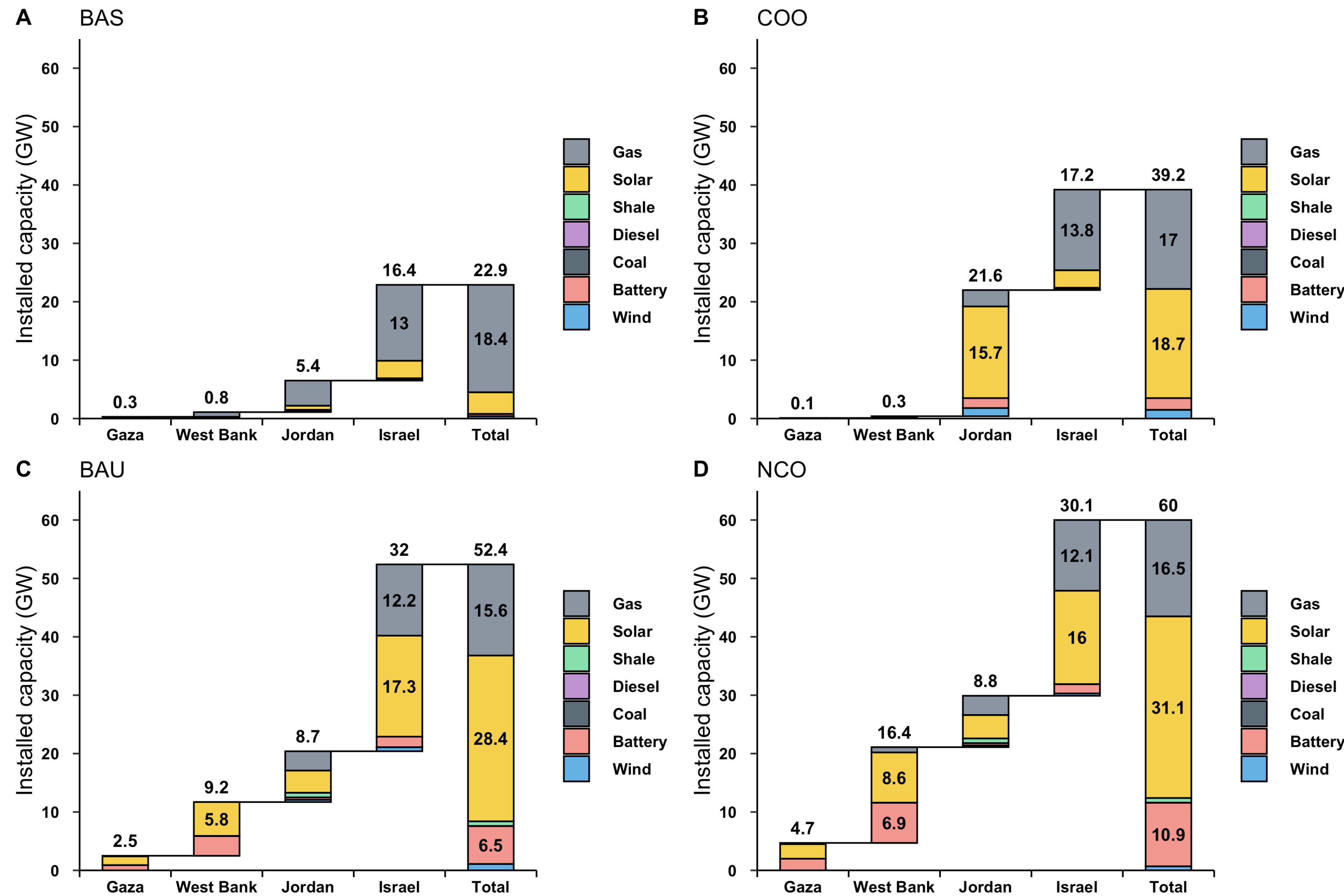


Figure: Installed capacities in 2030 (GW) under the four scenarios evaluated. Capacities of each technology are shown for each region, but are also totalled for the whole system.

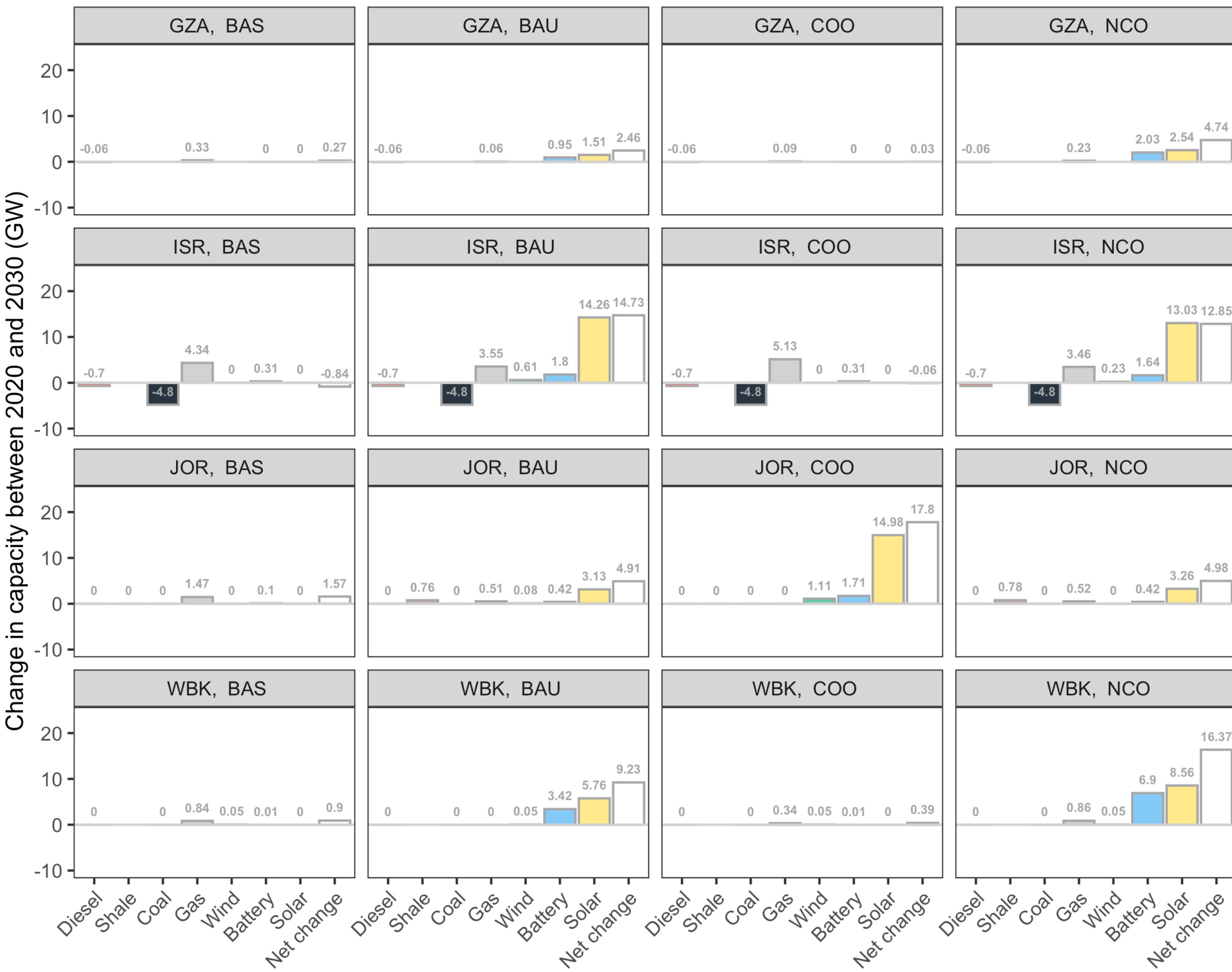
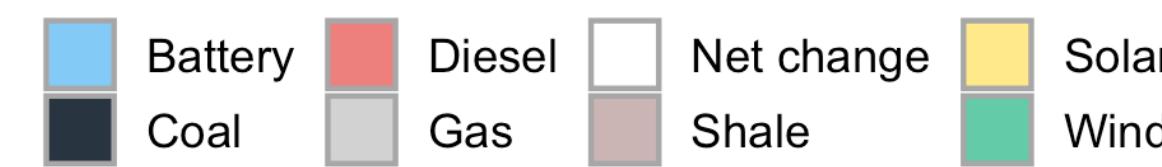
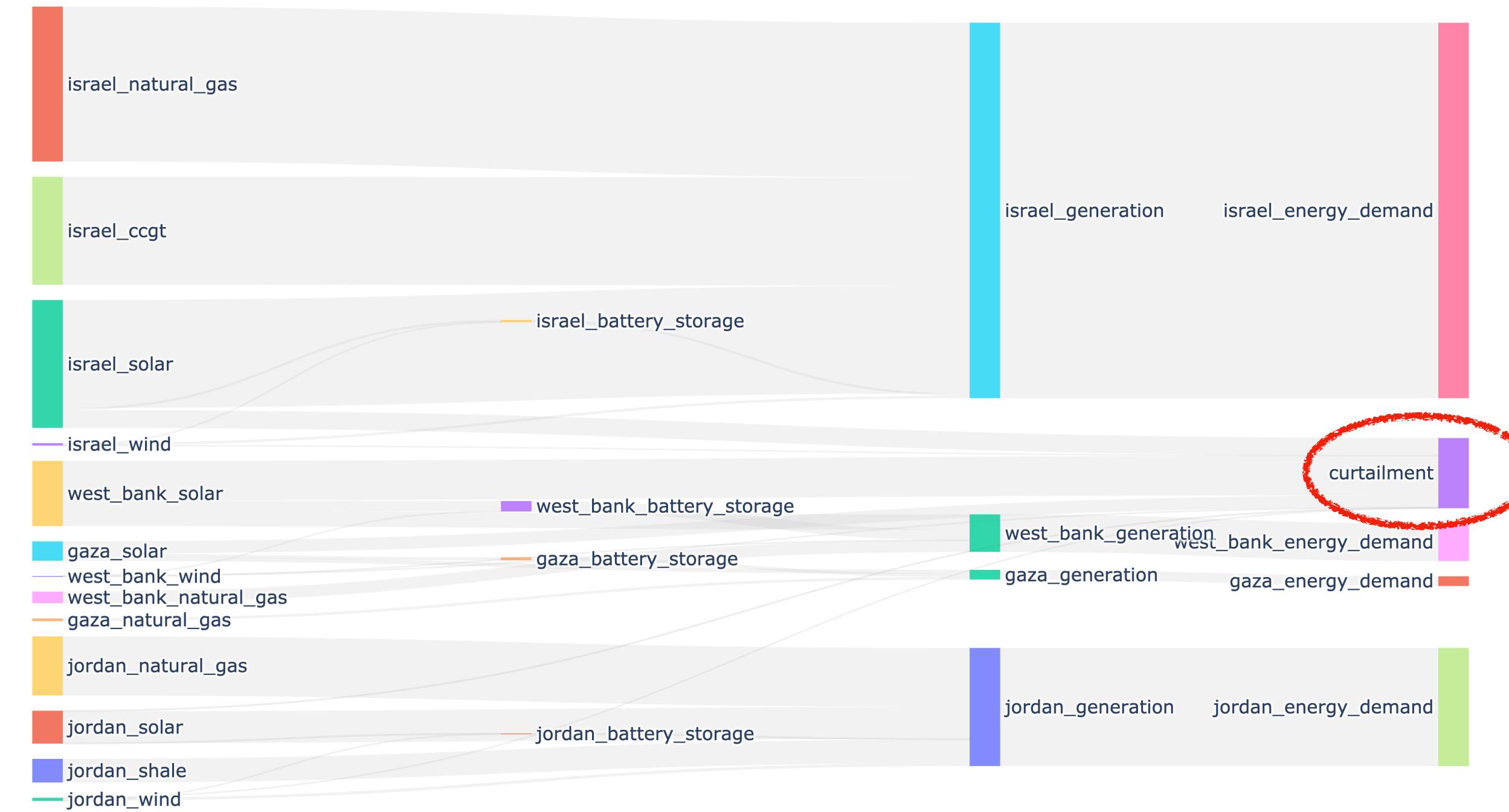


Figure: Net capacity change to 2030 (relative to 2020) by region and scenario. All capacities are shown in GW.

NCO



COO

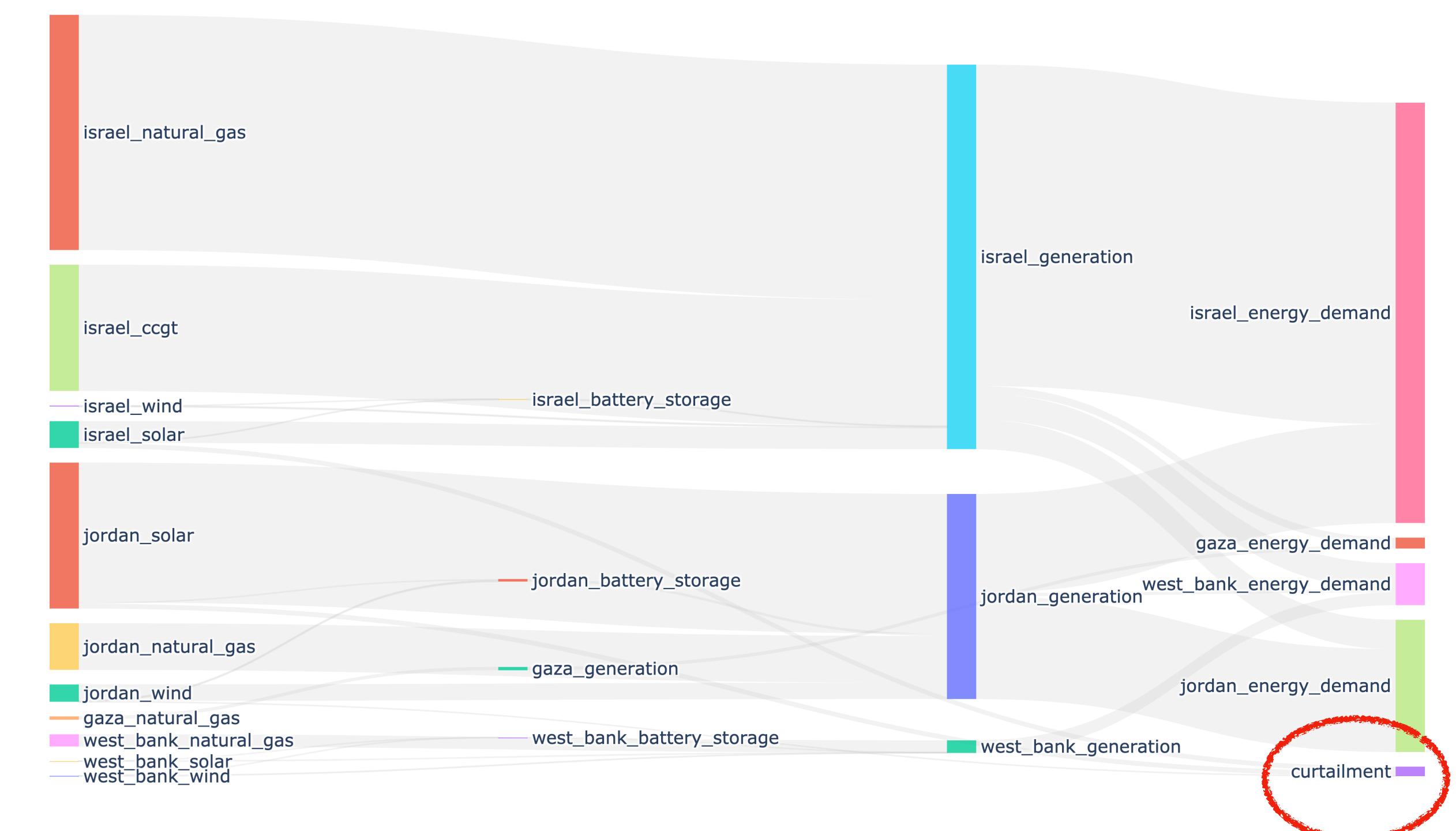


Figure: Sankey diagrams illustrating the interregional flows of electricity under the NCO and COO scenarios.

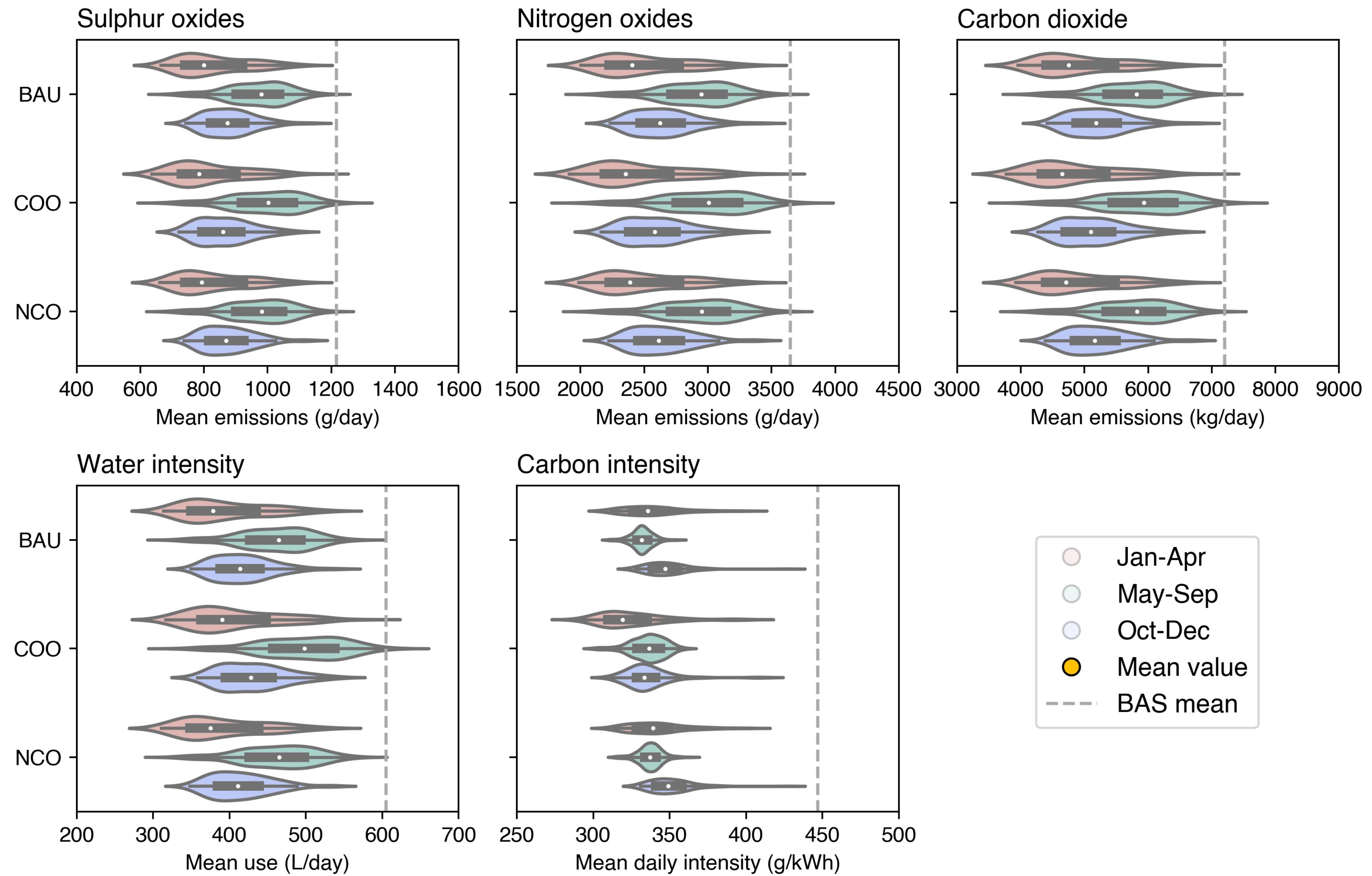


Figure: Emissions variables in 2030 under BAU, COO and NCO scenarios. Each panel plot shows a violin distribution of the simulated emissions, disaggregated by months. The dashed line shows the median value as calculated under the BAS scenario, and hence can be used to compute the emissions reductions associated with renewable and carbon targets.

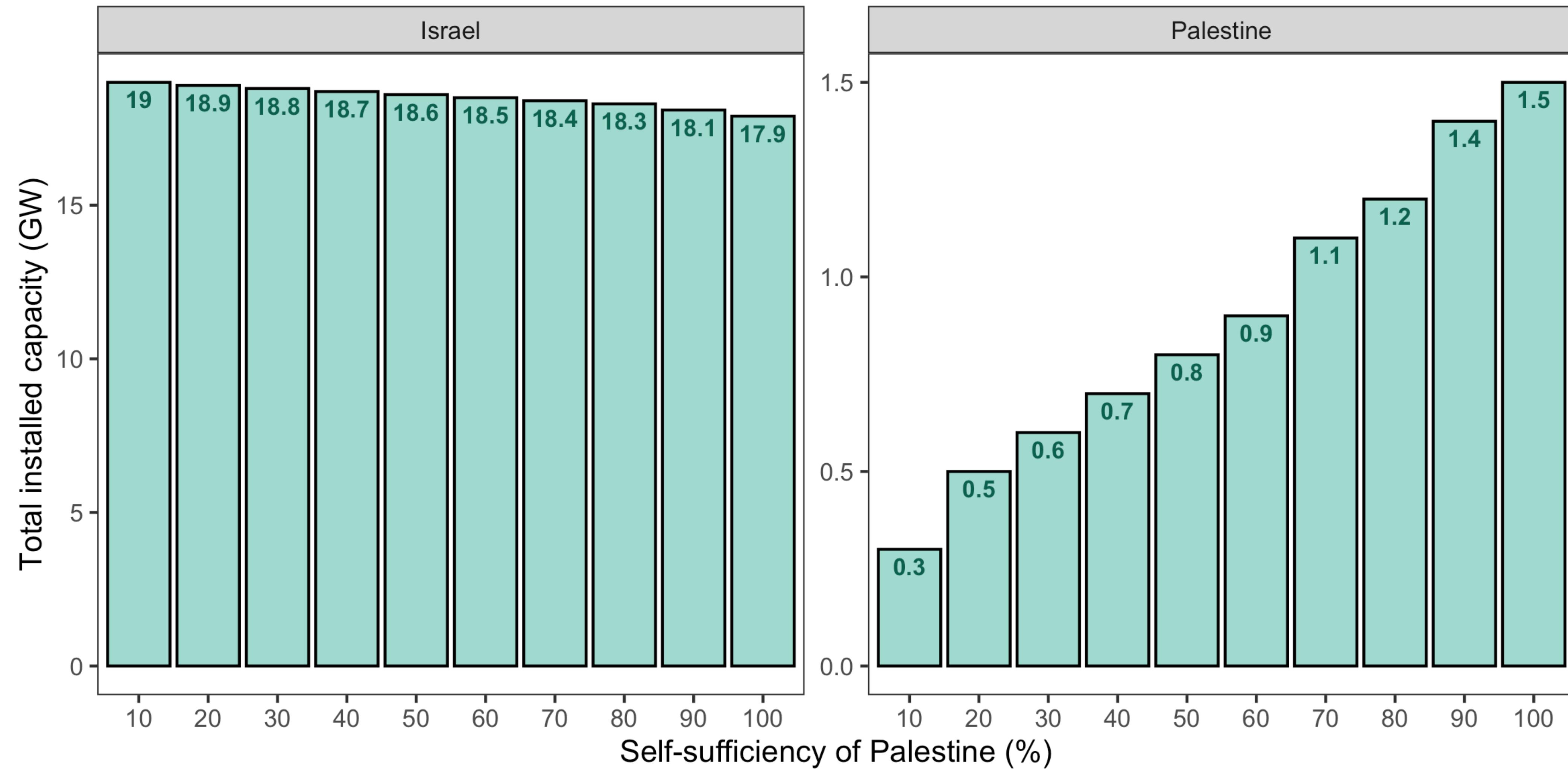


Figure: The influence of Palestinian self-sufficiency targets on the total capacity requirements under the COO scenario. Note that the capacities in Jordan do not change and hence are not shown here.

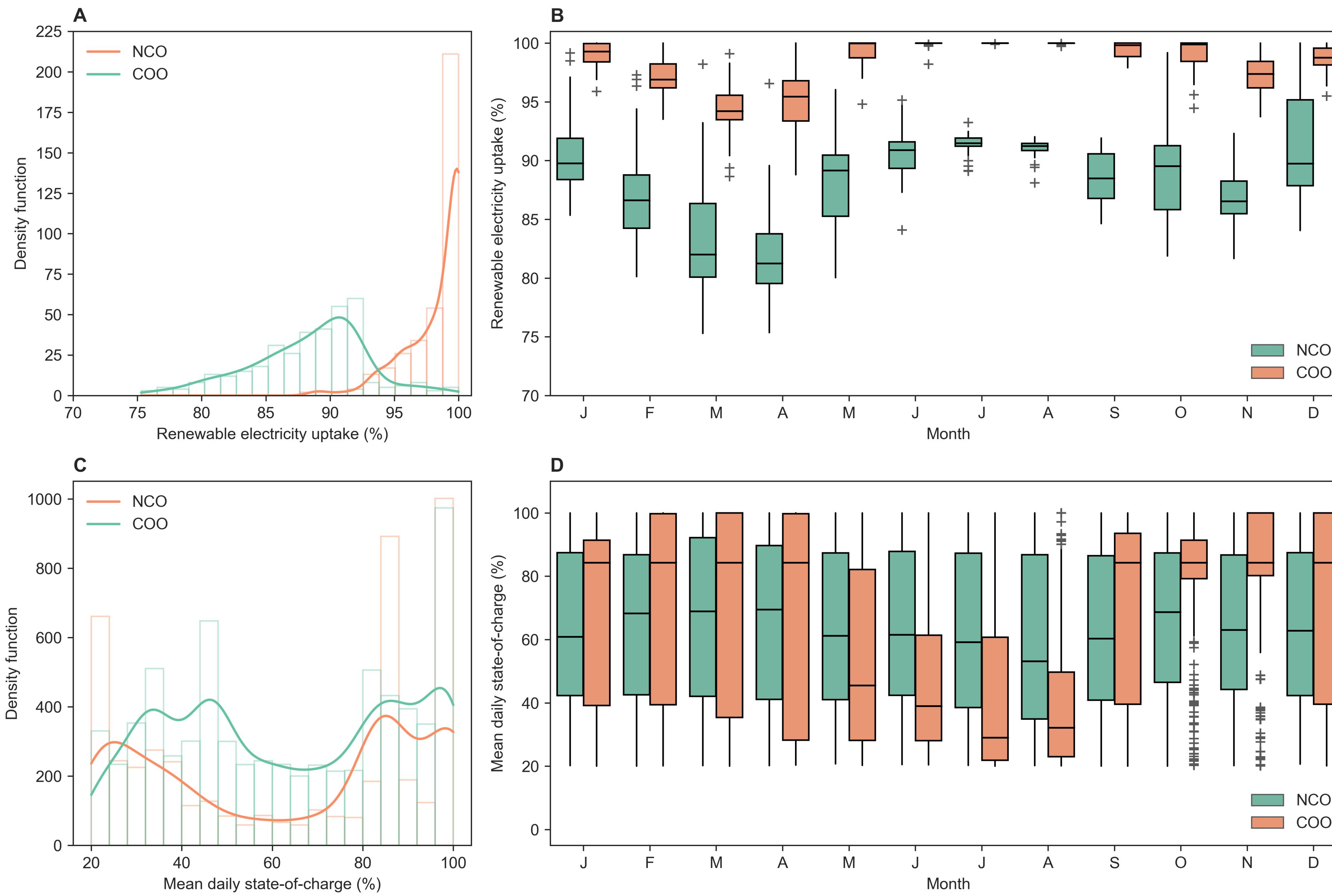


Figure: Temporal analysis of renewable energy uptake, battery state-of-charge, and conventional generation under the COO and NCO scenarios.