Off-grid generation could shift the future generation mix in Africa

Future electricity demand in Africa, if met by additional expansion of the centralized grid, could yield higher growth in coal- and natural gas-fired generation. If the demand were met instead by off-grid resources, the generation mix could increase the share of non-hydroelectric renewables sources, reducing fossil fuel generation.

Centralized grid expansion reinforces the existing sources of baseload supply. The Maximum Off-Grid case assigns the entire incremental demand to off-grid solar resources, which increases renewable energy use in Africa South.

Note: *other* includes liquid fuels, nuclear, hydro, and all other fuels not specified.