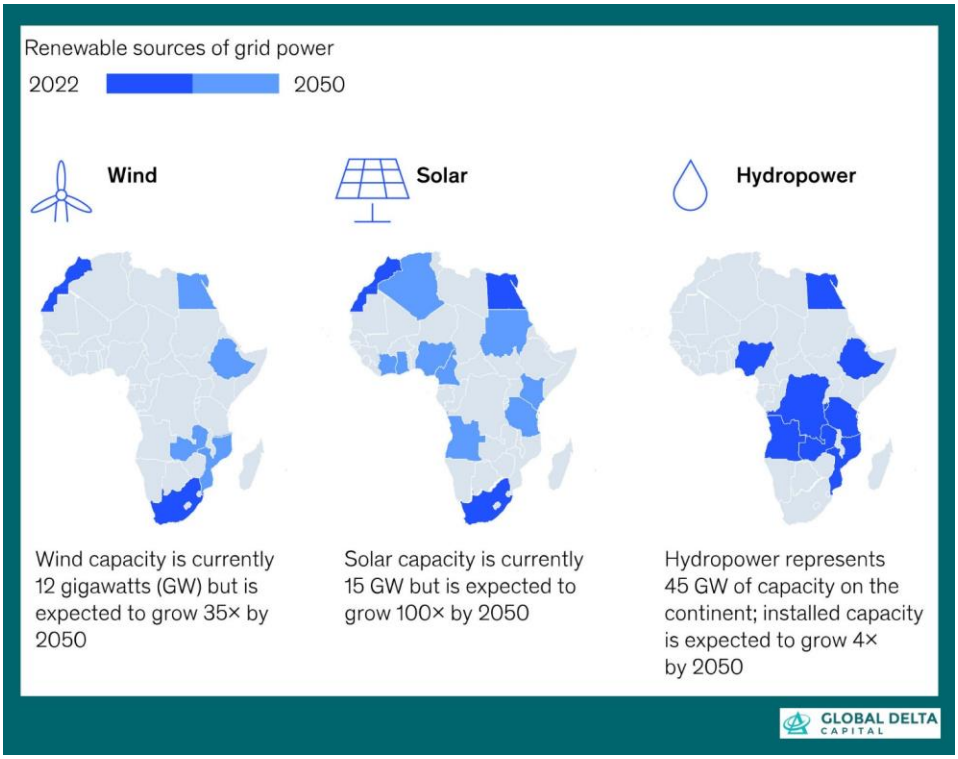
Energy Transmission

As populations expand and technology advances, and economies grow, the demand for energy increases. To reduce carbon emissions, this growing global demand for energy must be sourced renewably. Africa holds significant renewable energy potential, especially in solar, wind, and hydroelectric power.



Solar energy is abundant in the Sub-Saharan Africa area, with countries like Namibia and Botswana potentially offering up to 20 hours of electricity daily from solar mini grids. Wind energy potential is high in the Horn of Africa, especially in Ethiopia. Hydroelectric power also holds promise, with countries like the Democratic Republic of Congo potentially generating large amounts of energy from dams.

The potential of renewable energy transmission from Africa to Europe offers a new dimension of trade. Although transmissions lines need to overcome significant financial and technical obstacles, the most viable countries for this trade right now are Morocco, Tunisia, and Egypt because of their existing renewable energy projects and political stability. However, ongoing developments of renewable energy in Sub-Saharan Africa could be connected to such a grid in future.

With technological advancements, financing, and political cooperation, the renewable energy potential that Africa contains could benefit the world.

Source:
McKinsey, “Green energy in Africa presents significant investment opportunities”, October 17, 2023
https://www.mckinsey.com/capabilities/sustainability/our-insights/green-energy-in-africa-presents-significant-investment-opportunities

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