

# How much does one watt of solar power generation cost in Namibia

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How can Namibia meet its energy demand?

Namibia is at a crucial point in the development of its energy system - the country must soon make critical decisions to meet its growing energy demand. In particular, it must decide whether to prioritize the development of large-scale hydropower, namely the Baynes dam, or to develop abundant solar and wind resources.

Should Namibia invest in wind and solar?

Private investment in wind and solar could help Namibia to move away from dependence on unreliable hydropower and expensive imports. Indeed, our analysis suggests this is the cheapest and best technological pathway for Namibia and should thus be prioritized by energy planners.

How much energy does a Namibian wind farm use?

By contrast, Namibia's 20MW Omburu PV project<sup>87</sup> and its flagship 37MW Hardap PV project<sup>88</sup> required 2.1 - 2.7ha /MW, respectively. The 80MW Kouga wind farm in South Africa is located on a farm of 2,948ha, but the actual footprint of the wind farm translates to just 0.35ha /MW.<sup>89</sup>

How much electricity is needed in Namibia?

Emissions factors were collected from the IPCC Emission Factor Database<sup>113</sup>, which provides carbon emissions factors by fuel. Final electricity demand in Namibia was assumed to be 3,945 GWh in 2020 and 3,925 GWh in 2021 based on Nampower reported electricity demand.<sup>114</sup> It is then projected to reach 4,989 GWh by 2030 and 6,511 GWh by 2040.

Solar solutions aren't just eco-friendly; they're becoming cost-competitive with traditional energy sources. Let's unpack the 2025 price landscape for residential, commercial, and industrial ...

Solar (photovoltaic) panel prices This data is expressed in US dollars per watt, adjusted for inflation.

Energy Capital & Power's recent conversation with Sylvester Wayiti, CEO of HopSol, sheds light on the burgeoning solar photovoltaic (PV) market in Namibia, exploring the sector's growth ...

Namibia is heavily reliant on imported electricity, primarily from South Africa, which supplies up to 70% of its power needs. This dependence makes the country vulnerable to ...

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