



**SolarTech Power Solutions**

# **Libya's solar energy storage exports**



## Overview

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Libya was the seventh-largest crude oil producer in OPEC and the third-largest total petroleum liquids producer in Africa, after Nigeria and Algeria, in 2023.<sup>1</sup> At the beginning of 2024, Libya held 3% of the world's proved oil reserves and 41% of Africa's proved oil reserves (Figure 1).<sup>2</sup> Despite.

But here's the kicker—the country's aiming to generate 30% of its electricity from renewables by 2035. Wait, no. actually, their latest national energy plan revised that target to 35% after securing Chinese investments in solar parks last quarter [8]. Libya's been trapped in an energy paradox.

As the world shifts toward a cleaner energy future, Libya is stepping up its efforts to harness its abundant solar resources and diversify its energy mix. With a national target to generate 4 gigawatts (GW) of renewable energy by 2035, representing 20% of its total energy capacity, Libya is.

6W monitors the market across 60+ countries Globally, publishing an annual market outlook report that analyses trends, key drivers, Size, Volume, Revenue, opportunities, and market segments. This report offers comprehensive insights, helping businesses understand market dynamics and make informed.

Libya plans to generate more than 20% of its electricity from solar and wind in 2025, a strategy aimed at preserving oil and gas for export. Libya aims to generate more than 20% of its electricity from solar and wind projects in 2025, a move officials say will help preserve the country's oil and.

In 2021, oil accounted for about 62% of Libya's total energy supply and gas 34%, with renewables only ~4%. Virtually all electricity today comes from fossil fuel plants (UNDP notes the power system "exclusively depend [s] on hydrocarbon" feedstock). Decades of civil conflict have damaged generation. Can Libya export solar energy to Italy & Malta?

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How much energy does Libya need in 2022?

Fossil fuels met nearly all of Libya's energy demand, with oil accounting for 57% and natural gas accounting for almost 43% in 2022. Rooftop solar projects met less than 1% of the remaining energy demand.<sup>15</sup>

How much oil does Libya export?

Crude oil and natural gas export revenues are a significant part of Libya's economy, accounting for an estimated 97% of Libya's total government revenues and an estimated 93% of the country's total value of exports in 2023.<sup>13</sup> We estimate that Libya's net oil export revenues totaled \$30 billion in 2023, similar to 2022 totals.

How much electricity does Libya produce a year?

Libya's electricity generation has declined overall since 2013, and output was an estimated 30 terawatthours (TWh) of power generation in 2022.<sup>62</sup> Over a decade of civil war and insufficient maintenance and investment in aging plants and equipment reduced Libya's ability to produce electricity.

How much natural gas does Libya use?

Libya's natural gas consumption totaled 305 Bcf in 2023 and accounted for more than 70% of domestic production after 2020 (Figure 5).<sup>51</sup> The electric power sector drives Libya's domestic natural gas demand, accounting for about 85% of Libya's domestic natural gas use in 2022.

What fuel does Libya use?

Libya fueled its electricity generation with natural gas (71%) and oil (29%) in 2022.<sup>63</sup> Diesel and fuel oil accounted for most of the petroleum used in power

plants, although the Ubari power plant at the Sharara oil field uses crude oil as a fuel.

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