

## Nigeria tesla solar roof

Tesla Powerpack batteries have been deployed in Abuja, Nigeria, to help provide sustainable energy for the capital's government buildings. The project, which involves a 1.52 MW/2.29 MWh solar hybrid system paired with industrial-grade Tesla batteries, is aimed at reducing the capital's dependency on backup gas and diesel-powered generators.

As noted by Damilola Ogunbiyi--a Special Representative of the UN Secretary-General for Sustainable Energy for All--the solar + Powerpack installation was led by an all-female team of EM-ONE engineers who closely worked with the Tesla team to ensure that the project is built accordingly. A number of Nigerian engineers also traveled to the Netherlands to get trained by the Tesla team. The project was funded by the Federal Government of Nigeria.

Apart from the project being a great example of how the Women in STEM movement is gaining ground, the project also serves a notable role in helping the country move away from fossil fuel-powered solutions. Nigeria's use of fossil fuels was highlighted in a study published by the International Finance Corporation in 2019. In the study, the World Bank Group remarked that Nigeria is home to a large-scale backup generator market.

According to estimates from the Nigeria Labor Congress, as much as \$17 billion is spent each year on industrial-grade diesel and gas generators. These machines are used at institutional, commercial, and large housing sites. But this is not all. Nigeria is also known for its widespread use of small gasoline generators. Machines such as two-stroke generators that burn a mixture of gasoline and lubricating oil have been popular in the country, despite the government's efforts against them due to pollution concerns.

The Powerpack system in the Nigerian capital may only be a small step towards sustainability, but these steps matter when ushering in a transition to renewable energy. Considering that Nigeria is a market for backup generators, perhaps even residential battery units such as the Tesla Powerwall and grid-scale batteries like the Megapack could find a home in the West African country as well.

**Solar Market Outlook in Nigeria**With a population of 200 million and an economy that relies mostly on its oil reserves, the economy of Nigeria is highly volatile. Add to that Nigeria's electricity woes. Many residents and business owners in the country rely on generators to power up their business and even then a huge percentage of the population has no access to electricity.

Experts agree that this shouldn't be the case as this is a tropical country. Geographically, its location close to the equator means that it has mostly sunny days throughout the year. The government is hoping that this renewable energy source could be the solution they're seeking to combat the electricity woes that have haunted them for decades.

The National Renewable Energy and Energy Efficiency Policy in Nigeria was established in 2014. This policy details that Nigeria has a target of 20% electricity generation from renewable sources, mostly solar, in an effort to address the nationwide electricity shortage. They are also hoping to encourage more private investments in solar power plants.

There is notably a high solar potential in Nigeria, which gets up to 7 hours of sunlight daily. If this sunlight can be harnessed, it will produce 333,000 MW of solar power, which should be more than enough to bridge the electricity gap in the country.

Just as solar power plant projects are limited, there is also limited availability in local manufacturers of solar equipment in Nigeria. For those looking to make solar installations, you can turn to online or global suppliers and distributors for that.

**Buy Wholesale Solar Shingles?** Solar shingles, also known as solar roofs, photovoltaic shingles, are solar panels that are designed to look like and function as conventional roofing materials, such as asphalt shingles or slates, while also producing electricity. Solar shingles are a type of solar energy solution that is known as building-integrated photovoltaics (BIPV).

There are several varieties of solar shingles, including shingle-sized solid panels that take the place of a number of conventional shingles in a strip, semi-rigid designs containing several silicon solar cells that are sized more like conventional shingles, and newer systems using various thin-film solar cell technologies that match conventional shingles both in size and flexibility. Additionally, there are also products that use a more traditional number of silicon solar cells per panel. For this, the panels can reach as much as 100 watts DC rating per shingle.

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