

Support Senegal's First Utility-Scale Wind Farm

Project description

Parc Éolien Taiba N'Diaye (PETN) is Senegal's first large scale wind energy project and a critical part of the government's "Plan Senegal Emergent". The wind farm is designed to generate electricity for at least 20 years through its 46 wind turbines. During that time, up to \$20m will be invested by the project in wider socio-economic projects for Taiba N'Diaye. The plant provides 158.7 megawatts of clean, reliable energy to Senegal's electricity grid. This is a 15% increase in electricity generation capacity for the country, providing green electricity for over 2 million people, it will also help to reduce the cost of electricity generation in Senegal, which is one of the highest in Sub-Saharan Africa. PETN will be one of the lowest cost producers of electricity in the country.

At Parc Éolien Taiba N'Diaye, measures have been set up to support local authorities in their response plan for COVID-19 and to strengthen community resilience. This includes awareness campaigns, distribution of protective masks and gloves to local health facilities and support for vulnerable households including food provision.

Project developer

PETN is a project owned by Lekela, which builds wind farms in other African communities. As well as providing clean electricity, each Lekela project invest in programs that create sustainable livelihoods for the communities. This include making improvements to local agriculture, providing vocational training and opportunities for young members of the community and improving local infrastructure.

Sustainable Development Goals



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Project details

Project name:

Taiba N'diaye Wind Energy project

Project type:

Wind farm

Location:

Taiba N'diaye, Senegal

Project owner:

Lekela

Status:

Operational

Project ID:

Verra VCS 2588

Key facts

240,000 tCO₂
saved/year

158MW
installed capacity

2m people
supplied with green electricity



Pictures



Impacts



Senelec (the national electricity company) buys kWh from thermal power plants at 40% higher prices than from wind power plants.

The project helps to reduce the electricity bill of Senegalese households.



The plant was built through advanced technology transfer from industrialized countries.

This project is the largest wind farm in West Africa.



Lekala used the local workforce to build the plant.

The wind farm had created over 600 employment opportunities during the peak of the construction phase.



Around 80% of Senegal's energy production comes from fossil fuels.

The project helps to reduce the gap between fossil fuels and renewable energy.

CSR Actions

Following discussions with the Taiba N'Diaye Women's Association, Lekala started to rebuild the Mbayenne marketplace. It is now a clean, shaded space improving working conditions and ensuring better wellbeing for vendors and customers alike.

Key facts




46 wind turbines installed.

700 desks/benches built and distributed for schools in the region.

15% increase of electricity generation in the country.

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