

## Taiba N'Diaye wind farm (158 MW), Senegal



### Summary

- Taiba N'Diaye is the first utility-scale wind power project in Senegal, and is a critical component of the Government of Senegal's clean electricity production strategy.
- The wind farm will provide up to 158.7 MW of much needed clean, reliable and competitively-priced energy into the rapidly expanding local grid.
- The project will deliver a 15% uplift to generation capacity in Senegal.
- The project will consist of 46 wind turbines that can produce 3.45 megawatts each.
- The project has successfully completed all major development activities, entered into construction arrangements, signed financing documents and is ready to start construction.
- The wind farm will increase employment opportunities during construction of the project, as well as increasing socio-economic activity in the local area.
- The project benefits from strong government and local community support, and will implement an extensive social investment programme, estimated to contribute up to US\$20m over the life of the wind farm.
- The project will create a legacy in Senegal, helping create a sustainable future for the country.



### Taiba N'Diaye - a project by Lekela

Taiba N'Diaye is one of several projects in development by Lekela, which is committed to delivering clean, reliable energy across Africa. Taiba N'Diaye is the first utility-scale wind power project in Senegal and will deliver a 15% uplift to generation capacity in the country. It will provide up to 158.7 MW of much-needed clean, reliable, and competitively-priced energy into the rapidly expanding local grid.

The project will consist of 46 wind turbines, and will form a critical component of the Government of Senegal's clean electricity production strategy.

The project benefits from strong local community support, and an extensive social investment programme is already underway, which is expected to contribute up to US\$20m over the life of the wind farm.



## Project construction

The project, which will be the first ever utility-scale wind farm in Senegal, is in advanced stage of development, ready for construction. The project financiers have been selected and a Power Purchase Agreement for 20 years has been signed with Senelec. Once completed, the Taiba N'Diaye wind farm will provide a 15% uplift to generation capacity in Senegal.

The project will consist of 46 Vestas V126 wind turbines that can produce 3.45 megawatts each. The wind turbines received type certification in January 2017 and are some of the latest versions of onshore wind turbines available currently, building on Vestas' proven wind turbine technology. They utilise a 117m tubular steel tower and a blade length of 61.7m giving a very large swept area of 12,469 m<sup>2</sup>, allowing the wind turbines to maximise the amount of energy captured from the wind.

## Security of Supply

Senegal currently depends on imported fossil fuels for much of its power supply. Reserve capacity presently is insufficient, causing frequent power outages of whole districts, while transmission losses as well as old thermal power plants result in high production costs.

Being the first utility-scale wind power project in Senegal, the project forms a critical component of the Government of Senegal's strategy to increase clean electricity production and to diversify Senegal's energy mix as well as ensuring affordability.



e: [info@lekela.com](mailto:info@lekela.com) / w: [lekela.com](http://lekela.com)

### Julian Horn

Director Business Development,  
North and Francophone Africa  
Email: [julian.horn@lekela.com](mailto:julian.horn@lekela.com)  
Tel: +44 (0)203 301 6280  
Mob: +44 (0)7342 888 649

### Chris Ford

Chief Operating Officer  
Email: [chris.ford@lekela.com](mailto:chris.ford@lekela.com)  
Tel: +44 (0)203 146 3513  
Mob: +44 (0)7584 178 631

Lekela is a renewable power generation company that delivers utility-scale projects which supply much-needed clean energy to communities across Africa.

Through a platform built to develop, own and operate wind and solar assets, Lekela draws from its team members extensive experience, and from its founder shareholders decades of proven energy heritage. Lekela has the skills and drive to progress projects from mid or late-stage development into long-term operation. As a result, Lekela delivers sustainable, reliable and competitively-priced power to governments, utilities and large-scale industrial projects.

Lekela's current portfolio includes more than 1,300 megawatts across projects in Egypt, Ghana, Senegal and South Africa.

## Cost of Fuel

The wind resource is free and clean, and unlike imported fossil fuels, will not have a negative impact on Senegal's balance of payments. The project will also be one of the lowest cost producers of electricity in Senegal.

## Socio-economic benefits

The project will provide opportunities for employment locally and increase the socio-economic activity of the Taiba N'Diaye area while helping resolve the energy challenge in the country. During peak construction, nearly 400 employment opportunities will be created, benefitting the local community both financially, and in terms of skills and knowledge, enabling improved future employment prospects.

The project has begun the implementation of an extensive social investment programme in and around Taiba N'Diaye, focusing on creating sustainable livelihoods for communities by improving agriculture and providing vocational training opportunities for youth. It is estimated that over the life of the project such investments will contribute up to US\$20m. Already underway are programmes to boost the local region's mango economy and to increase IT resources in schools.

