

## South Africa

Lekela has five projects in South Africa. Three of these are in operation, Loeriesfontein, Khobab and Noupoort, with a combined generating capacity of 360MW. There are also two projects in construction, Perdekraal East and Kangnas, that will contribute a further 250MW.

### In operation: Loeriesfontein, Khobab and Noupoort

#### Loeriesfontein and Khobab wind farms

- Loeriesfontein and Khobab are neighbouring wind farms, which comprise a total of 122 wind turbines. They commenced commercial operations in December 2017. With a generation capacity of 140MW each, they combine to make up the largest single expanse of wind turbines in the country.
- Collectively, Loeriesfontein and Khobab add over a million-megawatt hours of clean, renewable energy each year to the country's national grid. This is enough to power around 240,000 South African households.

#### Noupoort wind farm

- Noupoort wind farm has a generation capacity of 80MW and comprises 35 wind turbines and began commercial operation in July 2016.
- Noupoort provides around 300,000MWh of clean renewable energy each year; supplying electricity to approximately 70,000 South African homes.

#### Socio-economic benefits

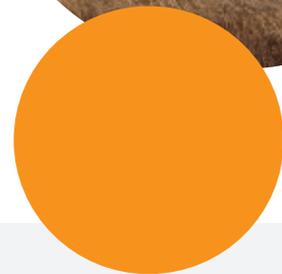
- Community Trusts have been established for each operating project, providing the local communities with shareholdings in their corresponding wind farm.
- This is anticipated to contribute approximately ZAR800m over the life of the Loeriesfontein and Khobab projects, and ZAR170m over the lifetime of Noupoort.

### In construction: Perdekraal East and Kangnas

- Two further projects are currently under construction in South Africa. Perdekraal East will comprise of 48 wind turbines, with a capacity of 110MW. Kangnas will comprise of 61 turbines, contributing a further 140MW.
- Perdekraal East will provide approximately 360,000 MWh each year of clean energy to the national grid, and Kangnas will provide a further 500,000 MWh.
- The wind farms will together power 180,000 homes and do so at a lower cost than current market prices.

#### Socio-economic benefits

- At peak construction, the projects will collectively create around 950 jobs.
- The projects are expected to contribute over ZAR 800m to the local communities over the lives of the wind farms.
- Financial close for both projects was reached in June 2018, and they are expected to begin delivering energy to the grid within two and a half years from this point.



These five projects form part of Lekela's wider portfolio across Africa. Focusing on delivering clean, reliable energy, Lekela is also developing projects in Senegal, Ghana and Egypt. At a time when power generation is in high demand, Lekela will deliver 1,300MW of much-needed clean energy across all four countries.

## Construction & operation

All three operating wind farms at Loeriesfontein, Khobab and Noupoort use Siemens' SWT-2.3-108 wind turbines, each with a hub height of 99.5m and three blades each 53m long, made from fibreglass reinforced epoxy. The turbines reach to an overall tip height of 152m, allowing the wind farms to capture the excellent winds in the Northern Cape.

Kangnas and Perdekraal which are under construction will use the same well-proven Siemens technology and will employ a slightly higher hub height of 115m. This means the blade tips will reach to 168m.

The large majority of the turbine towers were locally manufactured in South Africa's Western Cape. Civil and electrical works were completed by a consortium comprised of Murray and Roberts Construction and Consolidated Power Projects.

Siemens is also employed under a long-term service arrangement to ensure the projects achieve world class levels of operational performance throughout the life of the projects.

## Cost of fuel

The wind resource is free and clean, and unlike imported fossil fuels, will not have a negative impact on South Africa's balance of payments. Each project offers competitively priced electricity for South Africa.

## Socio-economic benefits

Like all Lekela's projects, the wind farms actively participate in the local community. Lekela focuses on initiatives that improve education, enterprise and the environment. Community Trusts have been established for each project and will carry out public benefit activities to assist the local community's economic development.

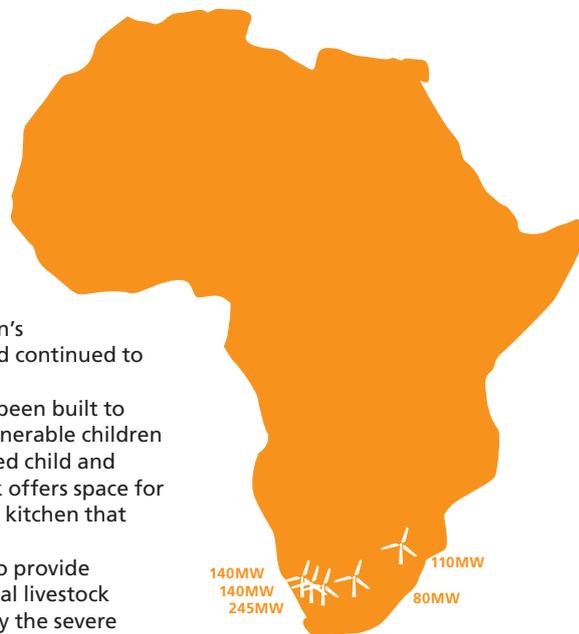


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Lekela is a renewable power generation company. We deliver utility-scale projects that supply much-needed clean energy to communities across Africa.

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.



### Loeriesfontein & Khobab:

- The two wind farms have directly funded further renovations at Loeriesfontein's primary and high schools and continued to sponsor teachers.
- A Community Safe Park has been built to offer a suitable space for vulnerable children and youths. Staffed by trained child and youth care workers, the park offers space for recreation, homework and a kitchen that can cater for children.
- The wind farms stepped in to provide much-needed support to local livestock farmers who were affected by the severe drought, safeguarding the livelihoods of up to 600 local people who depend on farming for their living.

### Noupoort:

- Two businesses who participated in the Noupoort Wind Farm's enterprise capacity-building programme found success in 2018. Karoo Fresh Eggs and Sandawana Brick Manufacturing Company have both doubled their output and number of community members were employed in 2018. The Sandawana Brick Manufacturing has purchased its third brick-making machine to meet local demand for its products.
- Noupoort Wind Farm constructed a brand-new early-childhood facility that has the capacity to take care of 200 children aged two to six years old, addressing the community's previous shortage of safe and secure educational spaces. It has also created direct local employment.
- The Noupoort Wind Farm funded an extensive upgrade of the maths and science laboratory at the local high school. It also continues to sponsor maths and science teachers.

### Perdekraal East and Kangnas:

- An ambitious programme established in the construction phase is underway to improve education services, support and enhance social welfare and establish sustainable businesses.



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