south pole
Carbon Asset Management Ltd.

The Gold Standard®
Premium quality carbon credits

Wind farms, New Caledonia

Though rich in wind resources, New Caledonia is reducing its dependency for energy generations using fossil fuel. The two wind farms of Prony and Kafeate are using world first technology to green-up the national grid and provide positive socio economic Improvements for the communities

Location

The project activity involves over one hundred small wind turbines situated in two different locations of New Caledonia. The Prony site is located in the South province near the village of Mont Dore whereas the Kafeate site is located in the North province in the village of Koné.
New Caledonia is surrounded by the world's second largest lagoon and is considered one of the world's most critically endangered and botanically most important hotspots.

Project

The Pacific islands region faces increasing environmental and socio-economic pressures sharpened by global climate change. The UN recognizes small island developing states as being particularly vulnerable to climate change. Already severely affected by climate variability and extreme tropical weather events, they remain extremely vulnerable to future changes in the regional climate and to rising sea levels.

Besides replacing dirty fossil fueled energy with sustainable power, the wind project tackles several environmental and societal issues. To strengthen civil society and indigenous Kanak rights, the company supports local and regional initiatives addressing employment, youth and community activities. In order to save nature and landscape partly disordered by former deforestation and mining activities, the infrastructure of the wind farms is based on existing roads only to limit erosion.

New Caledonia is located in a hurricane hot spot; the wind turbines used in the project are specifically designed for this type of climate, meaning that the whole wind farm can be tilted down within a few hours in the event of an extreme weather alert. This smart engineering approach makes the project a perfect match for the location and ensures that the nations green power supply can sustain an extreme climate event such as a hurricane.

The project now serves as an example for similar projects throughout the South Pacific, and is seen as the symbol of an environmentally respectful development to which local tribes are really sensitive.

Project achievements

Socio-economic impact:

- The project activity lead to the creation of local employment and know-how: more than 30 temporary and 28 permanent jobs have been occupied by local Kanak people which is lowering migration pressure. The employees receive know-how transfer and training by the German wind turbine manufacturer Enercon on maintenance, safety and operational issues.
- Thanks to their well trained staff, the company now uses its New Caledonian base for operation and maintenance for their projects in the whole Pacific region.
- The project owner embraced a local business initiative to strengthen small businesses and local economy. Through the pre-definition of work packages, several wind farm construction works could be carried out by small local enterprises.
- The windfarms are frequently visited by locals and school groups as a touristic spot. Open days for the public are regularly organized by the project owner to raise public awarenesss for climate and environmental issues.
- Two Community Coordination Centers were partly funded, one in Mont-Dore and one in Yaté, which offer employment and training opportunities in coordination with tribes and communities.
- The project owner supports the regional community relations group which offers educational training for young people, organizes sport and cultural events, and supports initiatives and local infrastructure improvements.
- The project brought technology stimulation in the wider region thanks to the innovative and first-of-its kind large application of the typhoon safe turbine technology.
- The development of this first ever Gold Standard VER project in the Pacific will trigger further emission reduction projects in the region.

Environmental impact:

- No new roads were constructed during project implementation in the hills. The project is based on existing road infrastructure from former mining sites to minimize any environmental impact.
- The project activity lead to reductions in the release of air pollutants, including 600 tonnes of sulphur dioxide (SO_2), 700 tonnes of nitrogen oxides (NO_x), as well as other particulates that are typically associated to the burning of fossil fuels.

Checklist Project 300 344

✓ Additionality and permanence:	according to the rules of the Gold Standard
✓ 3rd party verified::	by Germanischer Lloyd Certification
✓ Transparency:	provided by Gold Standard Registry
✓ Annual CO_2-reduction:	32,000 tCO_2e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

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