



Sustainability action · Project Renewable Energy and Energy Efficiency

Harnessing Coastal Wind Power for Taiwan

Two wind parks are contributing to the further development of renewable energy generation in Taiwan, a country still largely dependant on fossil fuels.

Project

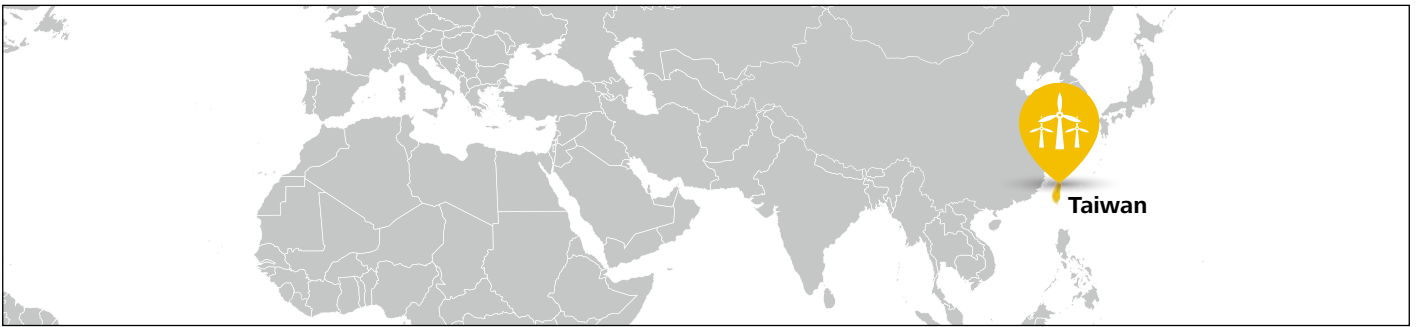
Despite the privilege of a long and windy coast line, Taiwan is still heavily reliant on fossil fuels, which comprise over 75% of the country's total installed electricity capacity. Now, pioneering wind parks have begun harnessing the potential of untapped sustainable wind energy off the islands coasts to pave the way for a less carbon intensive future. In addition to their positive impact on the global climate, the project generates jobs and is engaged in benefitting the

surrounding environment, e.g. by regularly cleaning the beaches from waste and debris. These and other activities have generated high public interest in the project. Through guided tours, the project has helped to promote sustainable development in Taiwan.

Technically, the two wind farms consist of 65 wind turbines, each with an installed capacity of 2.3MW. At full capacity, the aggregated output of the project is expected to be 507 GWh/year, which is delivered to the regional state electricity authority, Taipower.

For its outstanding features, the project has been labelled with the Geneva based Gold Standard, the strictest carbon project standard in the world.

Checklist	Additionality and permanence	3 rd party verified	Transparency	Annual CO ₂ -reduction	Social and environmental benefits	Marketing material
Project 300 190	According to the rules of the Gold Standard	By SGS	Provided by Gold Standard Registry	370,000 tCO ₂ e	As documented in our database	High resolution pictures available



Location

The two project sites are situated on the coasts of Taiwan, near Taichung and Changbin, respectively. The island – today dependent on coal and natural gas – has a huge potential for wind power that needs to be further exploited to satisfy the growing economy's needs.

Project achievements

Socio-economic impact

- Every year, scholarships are given to ten students of the Wei Lite College.
- 27 permanent employment positions have been generated for the operation of the wind farms.
- Employees received training by the German wind turbine manufacturer on maintenance, safety and operational issues.
- The project owner supports the Formosa Community in Taichung City, which offers first aid training, arts and crafts classes for mothers, and a reading club.
- Scholarships and funding are given to the Ta Tan Elementary School.



Environmental impact

- Beach cleaning events in collaboration with surrounding communities have helped to preserve the area as a habitat for wildlife.
- The project owner is contributing to the further development of the renewable energy sector in Taiwan by conducting informational events and windpark tours for students and the public.
- The project provides clean electricity to the equivalent of 130,000 households. The project has helped to raise awareness about climate change, pollution and other environmental issues through guided tours.
- The project's waste and emission free power generation helps to reduce air pollutants such as sulphur dioxide, nitrogen oxides and particles resulting from electricity generation from fossil fuels.
- During construction, the project owner accounted for local birds' breeding patterns to minimize the environmental impact of the building activities.
- The project owner cooperates with local governments to plant trees around the power plant sites. In Taichung, 50 hectares of trees were planted.

Gold Standard

