

**Delivering Quality, Performance, Reliability, Security and Savings****Reliable Renewables: Hybrid and Wind Solutions**

ALEIPATA WIND FARM

Independent State of Samoa

Wind Turbines: 2 Vergnet GEV MP C 275 kW,
32m rotor diameter, 55m hub height

Total power: 550 kW

Commissioned: August 2014

Operations and Maintenance: Vergnet S.A



First wind farm in the Independent State of Samoa

Vergnet GEV MP Wind Turbines Deliver Energy and Cost Savings for Aleipata

The Aleipata Wind Farm is the first wind farm to be commissioned in the Independent State of Samoa. The Vergnet project was completed on the island of Upolu, which is home to 75% of the total population. This project has been financed by the Abu Dhabi Fund for Development.

The wind farm was commissioned in 2014 by Vergnet and benefits the population by delivering \$475,000 (U.S.) in annual fuel savings with dioxide savings of 1000 tonnes annually.

Samoa is part of the Small Island Developing States (SIDS) low-lying coastal countries that tend to share similar sustainable development challenges, including small but growing populations, limited resources, remoteness, susceptibility to natural disasters, vulnerability to external shocks, excessive dependence on international trade, and fragile environments. Renewable technologies have the advantage of providing energy at a lower cost than fossil fuels and making SIDS more sustainable.

A Hybrid Approach – Investing in Wind Energy and Vergnet’s Hybrid Wizard® Solution

The project was installed in Western Samoa and consists of 2 GEV MP C 275 kW wind turbines, supplying 1,500 MWh of power per year. Vergnet is committed to developing the most technologically advanced, state-of-the-art designs for each project, and delivered a tailored design. Vergnet’s experienced engineers adapted the Aleipata Wind Farm system and the project specifications to meet the site requirements and conditions.

The wind farm utilises Vergnet’s patented Hybrid Wizard® technology to provide cheaper electricity and security of supply for the local population. The first self-adaptive hybrid controller maximises the penetration of wind resources in real time to develop a reliable source of power. As a global renewable energy solutions provider, Vergnet adapted a renewable energy solution that helps to reduce and secure energy costs for people, communities, businesses and economies like Samoa.

Making a Difference at Aleipata

“The new wind farm delivered by Masdar and funded by the Abu Dhabi Fund for Development is a significant step forward in Samoa’s transition to a more sustainable energy future. This has been possible thanks to the support of Abu Dhabi and the United Arab Emirates, and their commitment to advancing sustainable development. Access to renewable energy is vital to our long-term economic development, even beyond the substantial gains realised by cutting our dependence on imported fuel.”

the Hon Tuilaepa Aiono Sailele Malielegaoi, Prime Minister of Samoa

Reliable Renewables

Vergnet is a global renewable solutions company with a successful track record in providing high performance, reliable and affordable clean energy solutions for companies around the world.

Advanced renewable solutions, encompassing wind, solar PV and hybrid technology, make Vergnet a recognised partner of choice throughout the world.

The company leverages a 25 year heritage in delivering power quality, performance and availability of supply in remote, isolated environments with extreme climatic conditions and limited electricity infrastructure.



Vergnet GEV MP C 275kW wind turbine on Aleipata Wind Farm

With a strong focus on design, manufacturing and engineering innovation, Vergnet provides adaptable renewable solutions that are highly customised to both the local environment and the specific needs of the project.

Vergnet’s uniquely designed technology is adaptable for grid-connected as well as off-grid operations and has been developed specifically for extreme weather conditions providing reliable, efficient and scalable energy solutions. Vergnet operates in over 40 countries and has 166 employees in 10 offices.

Developing adaptable and affordable solutions that cut energy costs is at the heart of everything we do.