



Delivering Quality, Performance, Reliability, Security and Savings

Reliable Renewables: Wind Solutions

COL DE PRONY WIND FARM Mont Dore, New Caledonia

Customer: EOLE - Prony I, II, III & EOLE - Mont-Mau

Wind Turbine: 84 Vergnet GEV MP-C wind turbines

Total power: 21.5 MW

Commissioned: 2004-2007

Operations and Maintenance: Vergnet Pacific



Col de Prony Wind Farm, Mont Dore, New Caledonia, French Overseas Territory

Vergnet GEV MP Wind Turbines Deliver Energy and Cost Savings for EOLE Prony

Prony wind farm is part of renewable energy development continuity in French overseas territory and, in particular, in New Caledonia. With 84 wind turbines generating 21.5 MW of power, Col de Prony wind farm is powering the electricity needs of the entire city of Mont Dore and its 27,155 inhabitants, the second largest city in New Caledonia in terms of population.

Wind Energy Approach – Investing in Wind Energy

The local electrical authorities and QUADRAN chose Vergnet’s wind turbine technology for this project due to its robust design and proven adaptability to perform in cyclonic areas. Our technology has been designed and rigorously tested to deliver high performance in environments with extreme climatic conditions including marine, salty, dusty, cyclonic, warm and cold environments.

The VERGNET PACIFIC subsidiary, based locally, is in charge of the wind farms operation and maintenance services as well as installation, connection, training of staff, following the facilities during their life (20 years).

Technical characteristics	Prony I	Prony II	Prony III	Mt Mau
Commissioning:	2004	2005	2006	2007
WTG number:	10 GEV 26	21 GEV 26	20 GEV MP	15 GEV MP
Rated power:	220 kW	220 kW	275 kW	275 kW
Total power:	2.2 MW	4.62 MW	5.5 MW	4.125 MW
Rotor diameter:	26 m	26 m	32 m	32 m
Tower height:	50 m	50 m	55 m	55 m
Tower Type:	Lattice tower	Lattice tower	Tubular tower	Tubular tower
Yearly output:	4 600 000 kWh	9 200 000 kWh	9 760 000 kWh	7 862 000 kWh
Wind speed average:	7.7 m/s	6.8 m/s	6 m/s	6.22 m/s

Making a Difference in New Caledonia

“Over a four year period, Vergnet successfully delivered and installed 84 wind turbines, generating over 21.5MW of power for the area and directly benefitting the large population of Mont Dore. Together the four sites at Col de Prony wind farm deliver significant savings, including oil savings of 5,470 t and a reduction in the production level of harmful gases including CO₂, NO_x and SO₂ of 21,080 t. By diversifying the energy mix with renewable wind energy, we delivered a clean and reliable source of energy providing a strong return on investment and supporting the territory’s overall growth.”

Marc Rivard, Vergnet’s Sales Director

Cyclone proof wind turbines

In February 2012, New Caledonia was hit by Cyclone Jasmine, a category 4 storm (on a scale up to 5), with gusts exceeding 280km/h (175 mph). Thanks to its tilting towers, the Vergnet wind turbines withstood the ferocious storm and no damage was done.



Wind turbines generating 21.5MW of energy for the region and powering the city of Mont Dore

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.

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.