Project includes 4 wind turbines that obtains clean air inside of this structure whereas it also generates wind energy.

As it is known that Fiji in some periods has storms that makes us a chance to use wind energy. We are using 4 wind turbines that makes energy.

each turbine has a rated power of 1 kW, operating at an average wind speed of 4.5 m/s or higher.

Annual energy production formula:

E=P×CF×8760

Where:

P = Rated power (1 kW)

CF = Capacity Factor (efficiency depending on wind speed)

→ For 4.5-5 m/s, this is about 15-20%
8760 = Number of hours in a year

For One Turbine:

E=1×0.18×8760≈1577 kWh/year

For 4 Turbines:

1577×4=6308 kWh/year







