



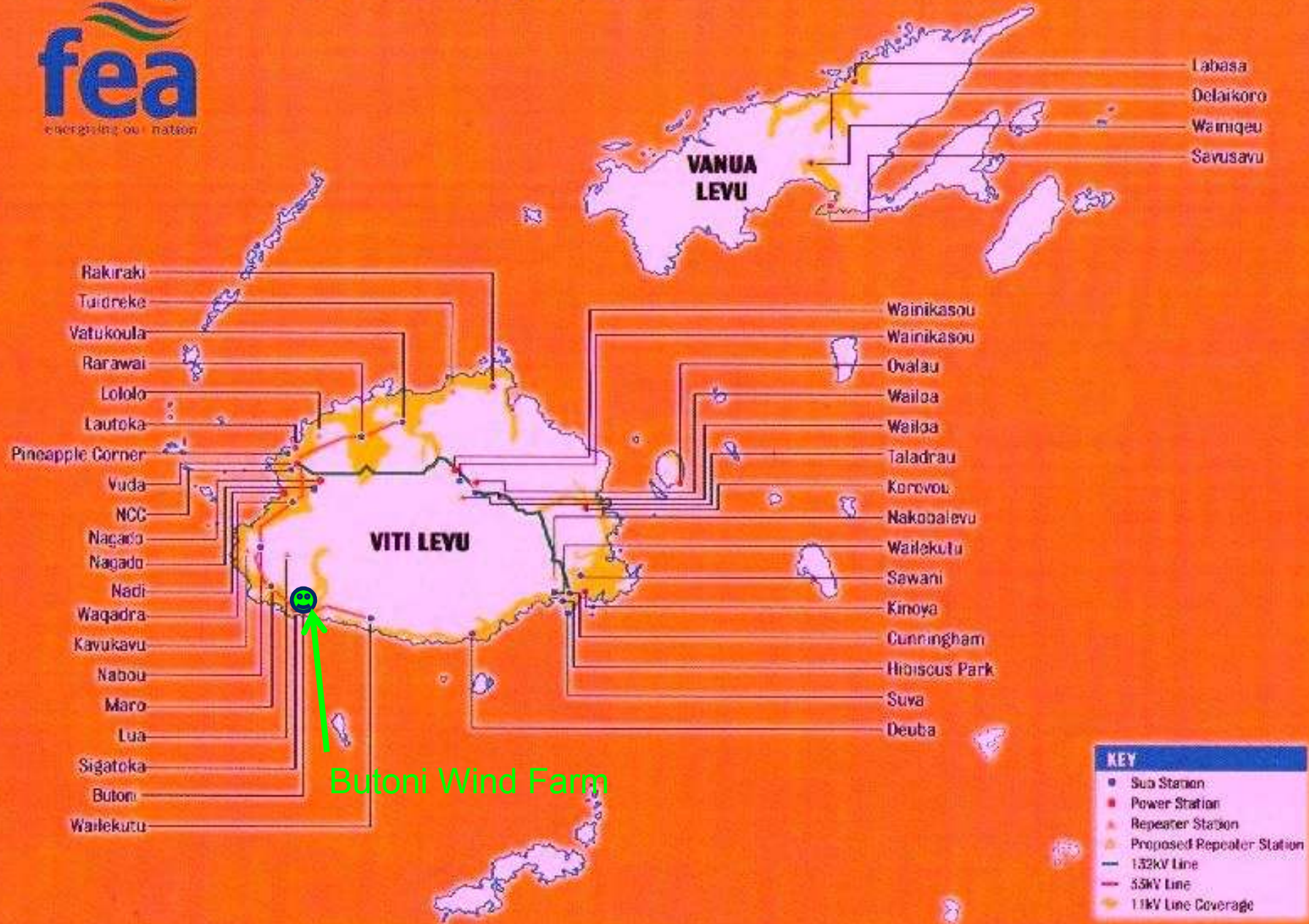
FIJI ISLANDS

PRESENTER – HASMUKH PATEL, CEO OF FIJI
ELECTRICITY AUTHORITY

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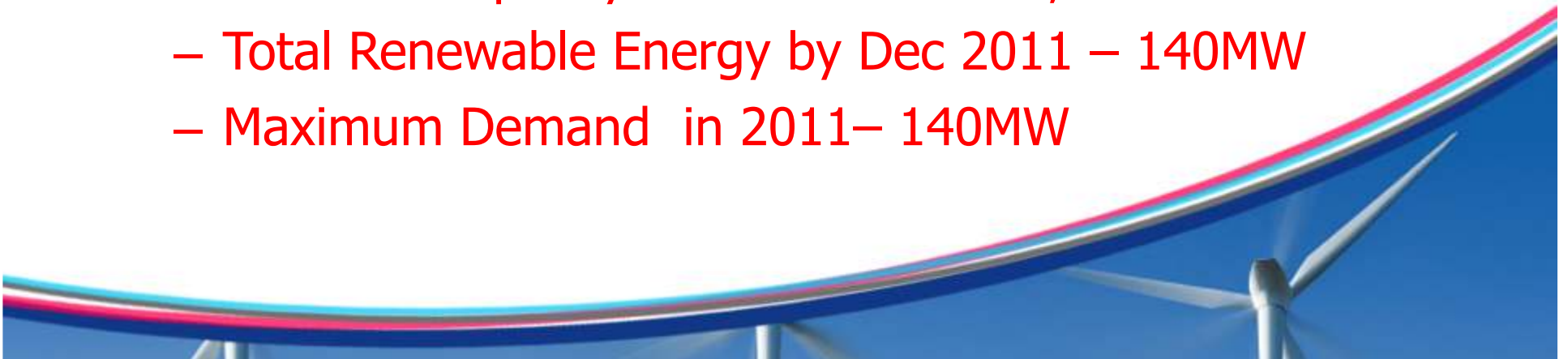


Distribution Areas

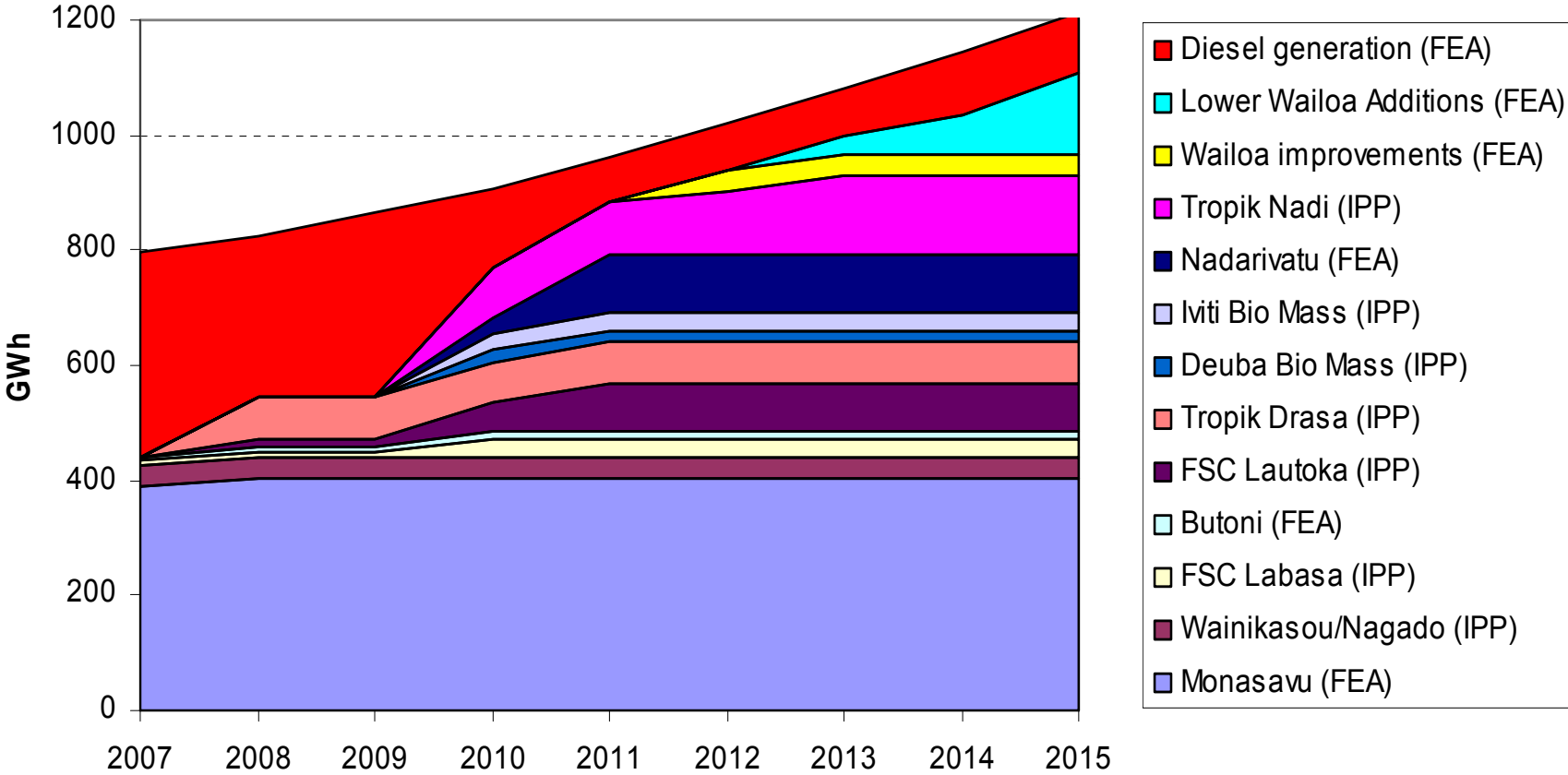


Energy Sector Overview

- Population: 850,000
- Electrification Rate: 4,000 new customers/year
- Population Connected to Grid: 600,000
- Energy Stakeholders: Government, Land Owners, IPPs
- Deficit in electrical energy: Nil
 - Installed Capacity in 2011 – 200MW; 240MW in 2012
 - Total Renewable Energy by Dec 2011 – 140MW
 - Maximum Demand in 2011 – 140MW



POWER DEVELOPMENT PLAN TO 2015



Power Generation

- Total Power Generation - 856,680MWh
- Power Generation Mix(2010)
 - Hydro – 49%
 - Thermal – 48%
 - Wind – 1%
 - Biomass(IPP) – 2%



Renewable Energy

- RE Policy/ies, highlights:

FEA MISSION STATEMENT

“We will provide clean and affordable energy solutions to Fiji . We aim to provide 90% of energy through renewable energy resources by 2015”

- As an incentive, all renewable energy projects are exempted from any Government Duty
- Wind Target: **No set targets exist currently**



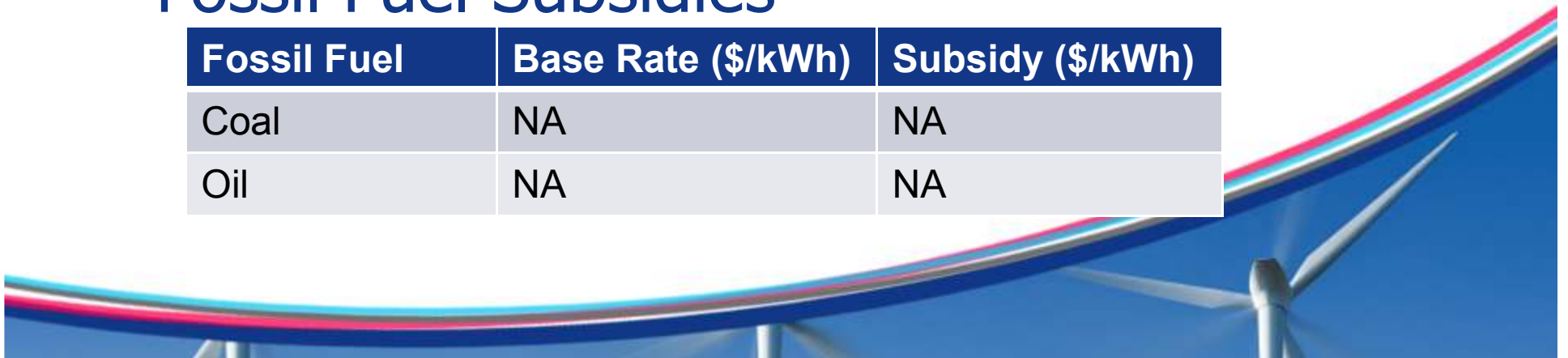
Electricity Cost: Subsidies and Incentives

- RE Subsidies

RE Source	Base Rate (US\$/kWh)	Subsidy (\$/kWh)
Wind	0.1457	NA
Solar	0.1457	NA
Biogas	0.1457	NA
Others	0.1457	NA

- Fossil Fuel Subsidies

Fossil Fuel	Base Rate (\$/kWh)	Subsidy (\$/kWh)
Coal	NA	NA
Oil	NA	NA



Wind Resource Potential

- Country Wind Potential (MW, source):
 - Yet to be assessed
- Realizable Potential (MW):
 - Yet to be assessed

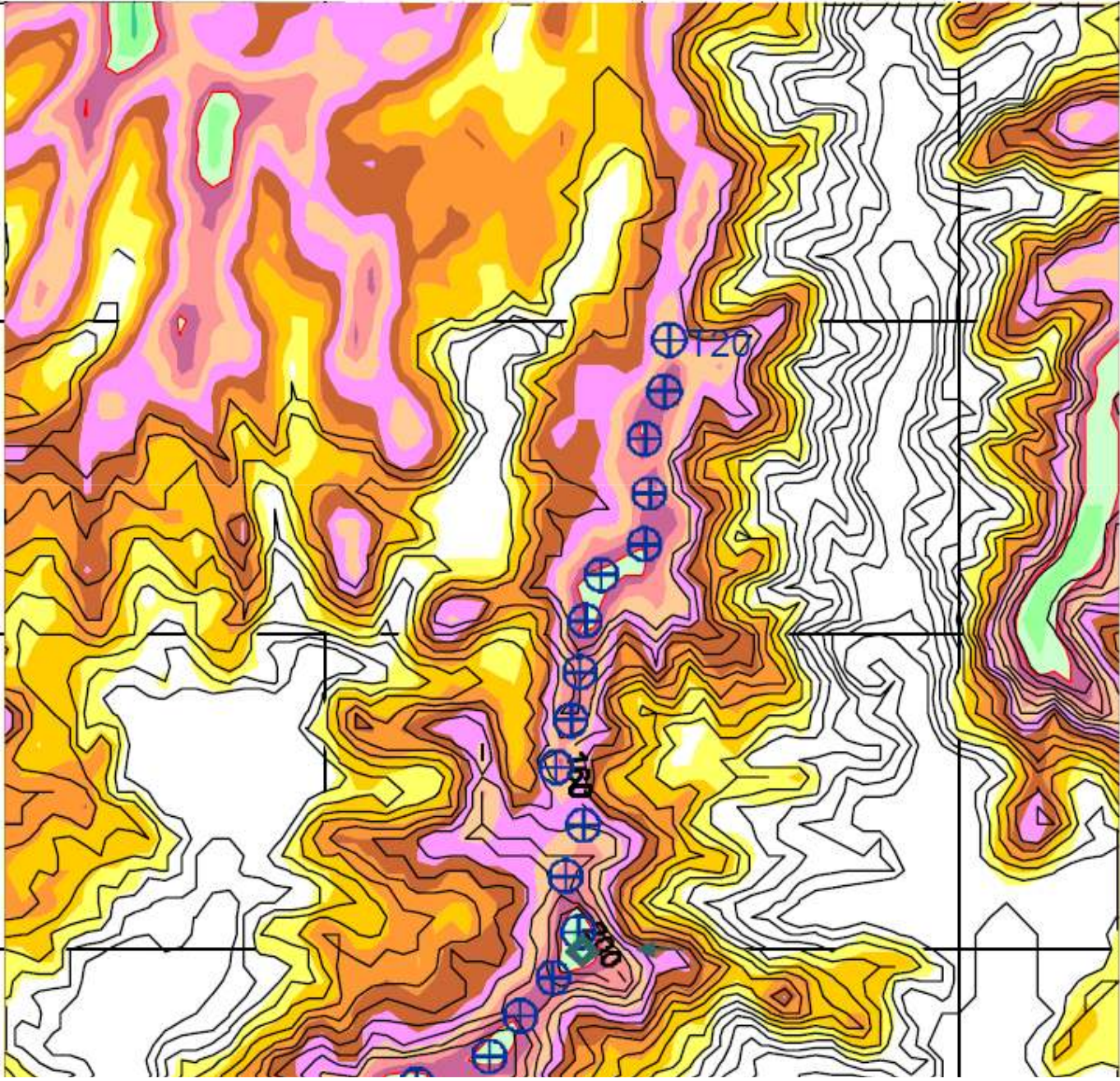


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3879000

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Total Installed Wind Capacity

as of December 2010

Operational Wind Projects	MW	Year
1. Butoni Wind Farm	10	2007
2.		
3.		
TOTAL	10	

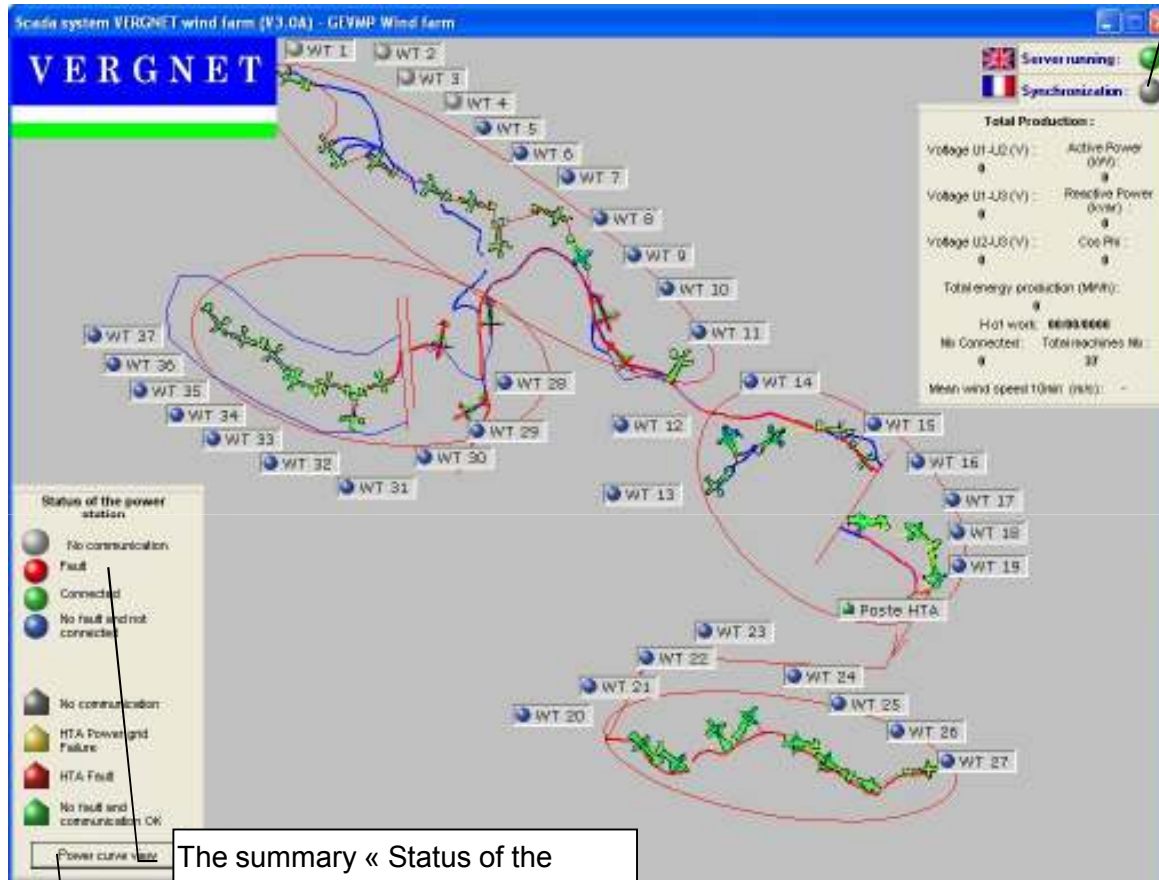




Photo of Butoni Wind Farm -Fiji



Butoni Windfarm Overview



Status of the backup software called « server »

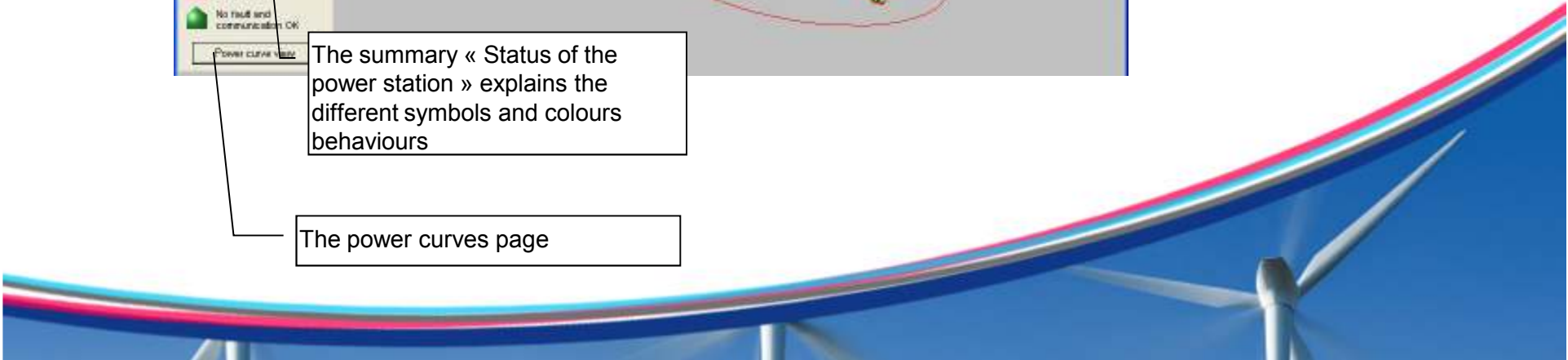
Green light when the software is running

Gray light when it's stopped.

- Main date of park totals
- The active power.
 - The reactive power.
 - The three composed voltages (U1-U2 / U1-U3 / U2-U3).
 - The power factor (ratio between active and apparent power).
 - The total energy since the wind farm has been started.
 - The date when the main counters have started (wind farm installation).
 - The total WTG installed on site.
 - Number of WTG in production.

The summary « Status of the power station » explains the different symbols and colours behaviours

The power curves page



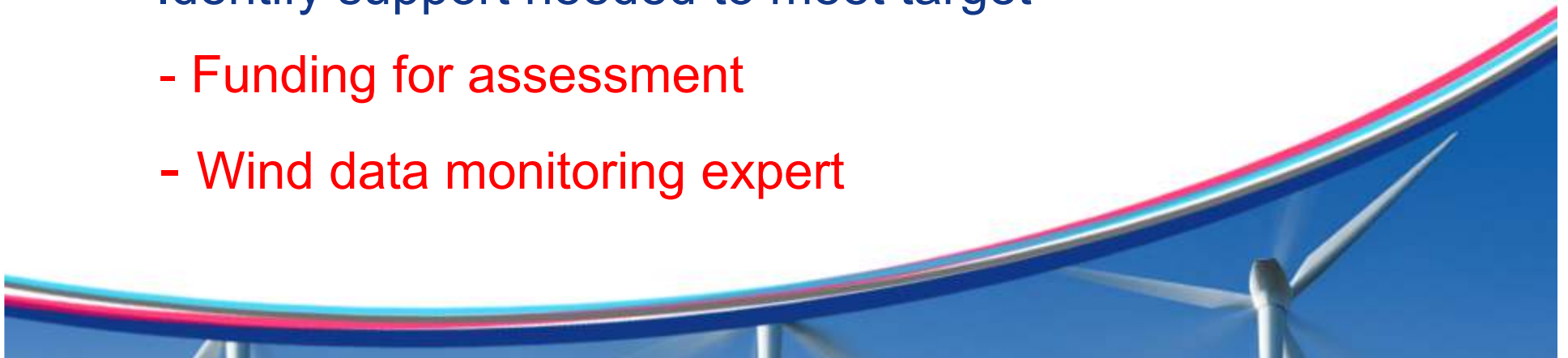
Additional Wind Capacity

Pipeline of Wind Projects	MW	Estimated Year	Estimated Cost
1. Ovalau Wind Farm	0.5	2014	US\$0.6
2.			
3.			
TOTAL			



Next Steps

- Is target doable in the next 5 or 10 years? **Yes**
- Briefly discuss issues encountered and how to overcome
 - **Land Owner Demands**
 - **Lack of wind data and monitoring**
 - **High capital cost**
 - **Lack of local skill for operation and maintenance**
- Identify support needed to meet target
 - **Funding for assessment**
 - **Wind data monitoring expert**



The image features three white wind turbines against a clear blue sky. At the bottom, a curved line composed of multiple overlapping colors (red, blue, cyan, and white) sweeps across the frame. The text 'THANK YOU' is centered in a bold, yellow, sans-serif font.

THANK YOU