## TONGA POWER LIMITED

# TONGA RENEWABLE ENERGY ROADMAP STATUS

PESALILI TOHI Tonga Power Limited

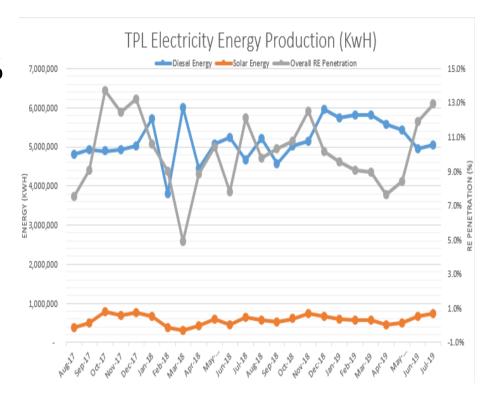


#### **OVERVIEW**

- Tonga's Renewable Energy Penetration
- Where we want to be
- How do we get there
- Renewable Energy Road Map
- Hybrid System Plan to reach 50% by 2020

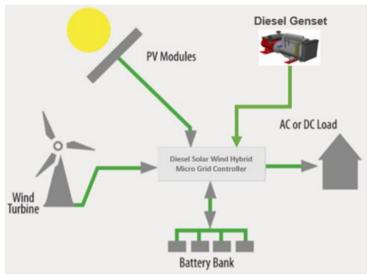
#### Tonga's Renewable Energy Penetration

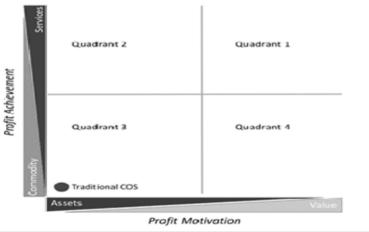
- Over 13% now
- Best month achieved is 14% 16%
- Diesel Generation RE absorption limit reached (4.3MW)
- 17.7 MW of Diesel Capacity Installed
- 7.5 MW of RE Installed On-grid (Solar PV, Wind, IPP)
- 1.8 MW/1.6 MWh Total BESS Installed



#### Where We want to be?

- Specifically 17.5 MW of RE and 10 MW/20 MWh Energy storage added to the Tongatapu system
- Measure 50% or more of electricity generation from RE
- Achievable Through significant donor, private sector investment and a dedicated implementation team
- Relative Socio-economic benefits through tariff stability due to less impact of oil price shock
- Time Bound before the end of 2020





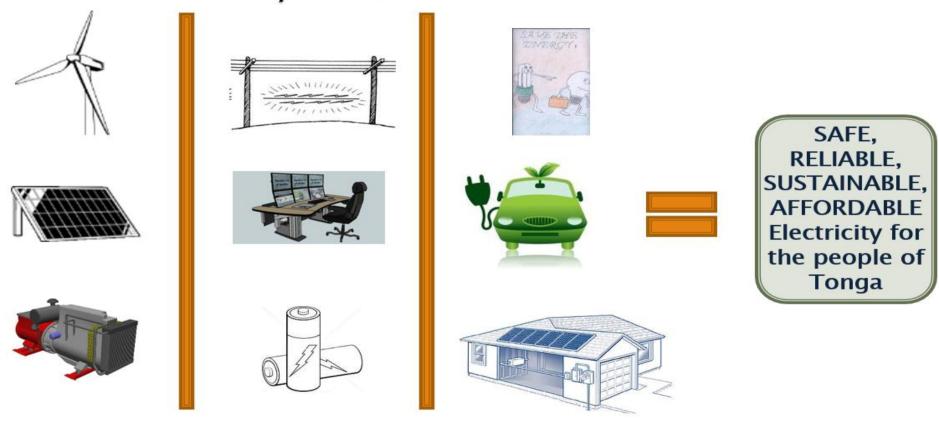
## How do we get there?

Generation	Distribution	Retail
Energy Portfolio Management	Network Planning & Design	Sales, Marketing & Customer Care
Plant Construction & Maintenance	Network Construction & Maintenance	Meter Reading & Billing
Generation Asset Management	Network Asset & Investment Management	Payments Collection
Generation Operations & Control	Network Operations (Projects/ Faults/Disco/Reco)	Credit Management
Human Resource (People & Culture)	ERP	Purchasing & Supplier Management
Financial Management	Health & Safety	Risk & Compliance Management
Systems Support & Maintenance (Application, Infrastructure, Network)  ICT  Architecture Governance, Innovation & Strategy		
IT Project Management	Productivity Tools & Knowledge Management	Reporting, Business Intelligence & Analytics

## Renewable Energy Road Map



Hybrid System Plan to reach 50% Renewable Penetration by 2020



### MALO AUPITO....Any Question??

