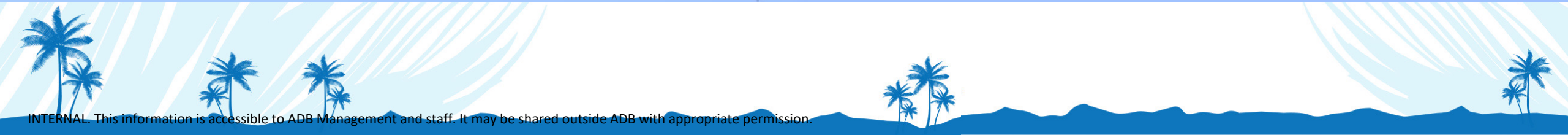


# Small Can Think Big

## Story of Tonga Renewable Energy Journey





# Country Context

- Small island developing nation
- Remote (1000kms from Fiji and 4000km from New Zealand)
- Consist of 177 islands, 36 are inhabited
- Population is 103,000
- 75% lives in the main island Tongatapu
- Beautiful country and lovely people

# Tonga Energy Sector

- Peak demand of 12.0 MW
- Installed capacity of 26.8 MW
  - ✓ Diesel 15.0 MW
  - ✓ Solar 10.5 MW
  - ✓ Wind 1.3 MW
- Network of 11kV and 0.4kV

# Tonga Renewable Energy Project

- Project
  - Total funding of US\$54.2 million
  - Co-financed by GCF and Government of Australia
- Outputs
  - Battery energy storage systems (BESS) in Tongatapu
  - Grid connected renewable energy generation in 'Eua and Vava'u
  - Renewable based hybrid mini-grid on outer islands
  - Capacity building and project management







# Game Changer

- 6MW IPP commissioned
- Rapid 70% renewable energy plan

# ADB Support

- Technical analysis
- Financial and tariff modelling
- Support to government and utility
- Transaction advisory
- Minimize risks

# Progress

- RFP advertised, closed and evaluated
- Negotiations completed
- Lands identified and negotiated
- Grid strengthening requirements identified



# Malo 'aupito

