

# TONGA TERMPLUS INVESTMENT OPPORTUNITES

MEIDECC - DEPARTMENT OF ENERGY WORKSHOP ON  
TERMPLUS UPDATE

*ENERGY STAKEHOLDERS AND DEVELOPMENT  
PARTNERS*

*24-25 AUGUST 2021*

# *Development of Investment plan for TERMPLUS*



*Tonga has set ambitious goals for renewable electricity; 70% by 2030 and 100% by 2035 but will still need safe and secure petroleum storage in the short-term:*

1-2 concept notes and investment estimate for:

- Supply storage
- Imported supply optimization

# *Development of Investment plan for TERMPLUS*



*Identify project pipeline and develop 2-3 key strategic concept notes looking at short term 2022-2026: and long term 2027-2035:*

2-3 concept notes and investment estimate for demand:

- Transportation
  - e-Buses
  - EVs
  - Chargers
- Buildings
  - Codes
- Energy efficiency
  - Appliances
  - Codes

*Identify project pipeline and develop 2-3 key strategic concept notes looking at long-term 2027-2035:*

Concept notes and investment estimates for:

- Renewable electricity generation
  - Solar plus battery
    - On Fanga`uta Lagoon?
  - Wind plus battery
    - Offshore?
- Storage Alternatives
  - Short duration
  - Long duration
- Transmission & distribution
  - Smart grid (Tongatapu)
  - Microgrids (Outer-Islands)

# *Development of Investment plan for TERMPLUS*



*Identify projects for Tonga Power Limited – Expression of Interest:*

Concept notes and investment estimate for:

- Project Requirements Quantum of Annual Energy
- Technology Agnostic
- Dispatchability Requirement
- Co-ordination with Other Generation Facilities
- **Due Date extended to 4pm Tonga time 6 August 2021**

# Development of Investment plan for TERMPLUS



*Identify collaboration projects with sufficiently developed ideas:*

No.	Outcome	Estimated Attribution
1	E-mobility fleet piloted	Total e-mobility units: 354 units <ul style="list-style-type: none"><li>• PHEVs – 100</li><li>• EVs – 100</li><li>• E-Buses – 4</li><li>• E-Scooters – 50</li><li>• E-Bikes – 100</li></ul>
2	Investment mobilized	Total USD: \$10.25 million <ul style="list-style-type: none"><li>• PHEVs - \$2M</li><li>• EVs - \$3M</li><li>• E-Buses &amp; charging infrastructure- \$5M</li><li>• E-Scooters - \$150K</li><li>• E-Bikes - \$100K</li></ul>
3	GHG emissions mitigated	Total: 978 tCO <sub>2</sub> e (by 2030 = 8,818 tCO <sub>2</sub> e) 50% x 16Gg = 8Gg by 2030 = 8,818 tCO <sub>2</sub> e
4	Green Jobs created	Total Green Jobs = 80+ Total number of green jobs – (25+25+15+5+10) = 80 green jobs



# MALO



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# QUESTIONS ON TONGA TERMPLUS INVESTMENT OPPORTUNITIES

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