



Tonga Energy Efficiency Master Plan
Victoria (Vickie) Healey
National Renewable Energy Laboratory

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Information Session
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Objective: Energy Efficiency Master Plan

- ✦ Support Tonga with development of Energy Efficiency Master Plan
- ✦ Focus on achievable energy efficiency and GHG targets
- ✦ Ensure transition to energy efficient future



The Genesis of the CTCN intervention

- ✦ NREL, as a CTCN Consortium Partner, served as lead designer of response plan and is implementing the technical assistance.
- ✦ Focus of Project:
 - ✦ Working with Tonga to analyze and prioritize cost effective energy efficiency options,
 - ✦ Helping build Tonga's capacity to do similar analysis in the future as well as implement specific energy efficiency measures
- ✦ Actively trying to balance national requirements to meet nation's energy needs while reducing GHG emissions, including reductions in energy intensity.
- ✦ Government is working to identify best social, environmental and economic technology options, while ensuring sustainable development is achieved.
- ✦ Tonga submitted this request to the CTCN given the technical expertise of CTCN's consortium partners.

Intended impacts of the technical assistance

- ✦ Develop a clear pathway for Tonga to reduce its GHG emissions and increase energy savings from all sectors
- ✦ Improve the energy efficiency standards of technologies and applications through the development of standards for energy services, appliances, technologies, buildings and vehicles
- ✦ Limit imports of inefficient energy technologies
- ✦ Alleviate the fragmentation, uncertainty and ambiguity of authority within the energy efficiency sector by assigning the key authority to the Energy Department
- ✦ Allow the Energy Department to conduct its role as the key agency for the energy sector by ensuring that all energy efficiency related line ministries are conducting their roles as assigned and in a diligent manner

Intended impacts of the technical assistance

- ✦ Reduce GHG emissions and increase the investment in low carbon technologies
- ✦ Increase economic development through investment in low carbon technologies and improvement in reduction of energy intensity, and increased savings
- ✦ Enhance social wellbeing and livelihood through increased access to affordable, clean, modern and secure energy sources
- ✦ Increase resilient infrastructures constructed to tackle climate change impacts based on environmental, sustainable, and energy efficient standards and design

Next steps

- ✦ Identify data needs, gather data, and conduct a baseline energy use study
- ✦ Develop energy efficiency and GHG reduction targets based on national priorities
- ✦ Determine specific energy efficient measures that can enable Tonga to meet its targets
- ✦ Conduct capacity building and training for the Tongan counterparts; both throughout the entire TA implementation process and through additional training events

Lessons learned

- ✦ Given the early stages of the implementation process, there are no lessons learned to date from the technical assistance delivery.
- ✦ NREL recommends the CTCN explore mechanisms for having technical assistance implementers on “retainer” to enable quicker initiation of the TA delivery process once response plan is finalized.
- ✦ NREL and the CTCN via UNEP did not begin negotiating a new agreement until after development of the response plan was completed, there was a long lag before actual work could begin.

Timeline for this project

- ✦ April 2016: Began developing response plan
- ✦ September 2016: Began incorporating response plan into GCF Readiness Proposal
- ✦ November 2016: GCF proposal finalized
- ✦ April 2017: GCF proposal approved
- ✦ May 2017: UNEP-NREL contract negotiations begin
- ✦ August 2017: Finalized UNEP-NREL contract
- ✦ September 2017: Initiated project technical assistance implementation



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www.ctc-n.org

ctcn@unep.org

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