



Rural Electrification in Vanuatu - Opportunities for Private Entrepreneurs



Ministry of Climate Change



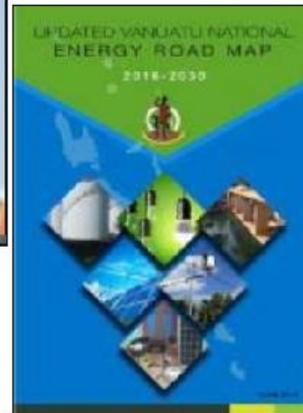
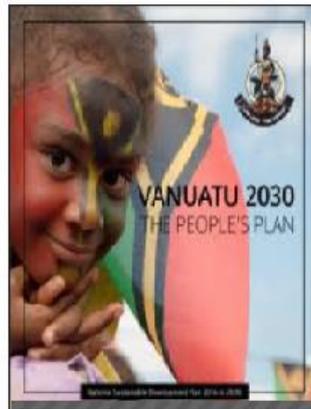
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National Energy Roadmap (NERM)- Overarching Energy Sector Policy



The National Sustainable Development Plan (The Peoples Plan) aims to:

- ENV 2.3** Prioritise renewable sources of energy and promote efficient energy use
- ECO 2.1** Increase access to safe, reliable and affordable modern energy services for all that are increasingly generated from renewable sources and reduce reliance on imported fossil fuels

The NERM intends to increase access to RE based electricity for all by 2030 in addition to energy efficiency improvements.



100% RE generation by 2030



100% electrification by 2030



14% savings from electricity end-use efficiency improvement



65% of tourism bungalows using RE sources for electricity requirement





Current Rural Electrification Access status

- ❑ Rural Electrification = Off Grid areas
- ❑ Of the 83 islands that make up Vanuatu, only 4 islands benefit from a formal grid network (i.e. Efate, Tanna, Malekula & Santo), while other islands are off-grid base.

- ❑ Low access rates:
 - Overall access is 33% however only 64% with access are connected to the grid, with remainder (36%) have household solar systems or diesel generators.





Ongoing Rural Electrification Government projects

- ❑ Vanuatu Rural Electrification Program (Phase I and II)
 - VREP I: 17,500 off-grid households, 230 aid posts and 2,000 community halls: more than 7000 Plug & play system sold



- ❑ Talise Hydro – Three Villages of approx. 350 HH
- ❑ Bio fuel grids – 2 villages. Connection to 191 HH and opportunity for more HH Connection
- ❑ Brenwei Hydro – Est. 1050 HH
- ❑ Santo East road grid extension

Planned Rural Electrification Government Projects

- ❑ VREP II- 37 Public Institution, 8400 rural HH, 5 Minigrid (550 HH)
- ❑ BRANTV – 40 sites (19 pico/micro hydro, 1 solar hydro hybrid, 20 Solar compound)
- ❑ NAMA – Solar mini grid - 2 villiages





Opportunities for Private Entrepreneurs to Capitalize on Rural Electrification Plan

□ Rural Electrification Opportunities –

- Need for more solar vendors to partner with the Government in projects to extend the current reach of rural electrification
- Need for qualified electricians in the rural to install and repair solar systems
- With increased systems using 'plug and play' systems or system on hired financing arrangement, there will be increasing need for small entrepreneur in the field to support the suppliers of the 'plug and play' systems.
- Needs would be in the area of providing technical support in maintenance and repairs and also selling or collecting funds on behalf of the large companies who are supplying the systems.
- Mobile money payment system to facilitate pay as you go products.
- Installation of rural mini/micro electricity grids would demand the need for steady economic activity to utilize the systems ensuring that it remains profitable.
- For pico electricity grids that require limited technical knowledge, small companies/community/individual have the opportunity to install, manage and maintain the system.
- For Bio fuel grid systems, opportunity of generating biofuel products to be used in the generation plant





Way Forward

- ❑ Wider engagement of public private sector partnership to achieve NERM and NSDP targets by 2030



Tankiu tumas!!

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