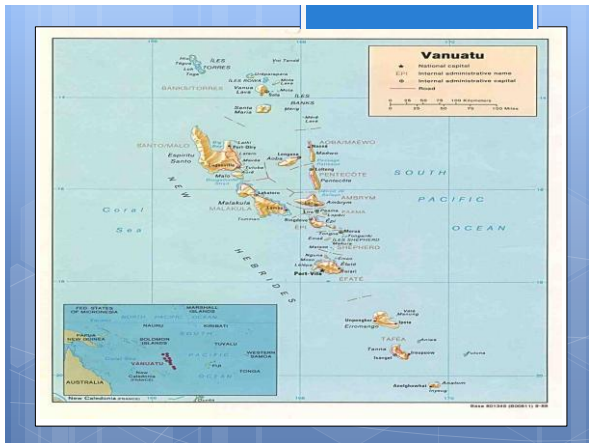


## Outline

- Introduction
- National Energy Road Map (2013-2020)
- Monthly Energy Update
- Projects (2014-2016)
- RRA Report (key findings)
- Engaging Partner Support



## Introduction

- Current Total Population approx. 260,000.
- Only 4 of 83 islands have Electricity Concessions
- Low Rate of Energy Access in Rural Areas (30%)
- Transformation of the Energy Implementing institutions- The Ministry of Climate Change Adaptation, the Department of Energy & the Utilities Regulatory Authority (URA).
- On going review and amendments of Energy Legislations: Appliance Labeling and Standards Act, Electricity Supply Act, Petroleum Act, and the Geothermal Energy Act.

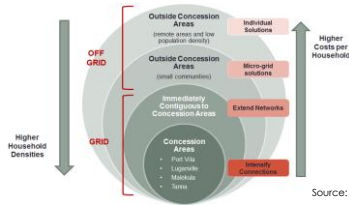
### National Energy Road Map -NERM (2013-2020)

**Vision:** "To energise Vanuatu's growth and development through the provision of secure, affordable, widely accessible, high quality, clean energy services for an Educated, Healthy, and Wealthy nation."

**Approach:** Implementing a sector-wide approach under the principle of "Many Partners, One Team, One Plan".

**5 Priority Areas:** Access, Petroleum Supply, Affordability, Energy Security and Climate Change

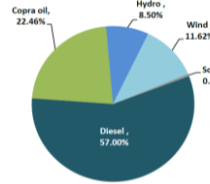
#### Strategic Investment Planning Framework for Scaling up Electricity Access



Source: Vanuatu NERM

### Monitoring of Energy(Monthly)

SEPTEMBER 2015, Energy Generation



Sep-15	Port Vila	Luganville	Malekula	Tanna
Litres of diesel used	929,322	86,477	18,912	17,910
kWh Produced	4,258,336	748,399	57,715	64,164
Diesel %	59.38%	41.17%	46.23%	93.03%
Copra oil %	26.39%	-	48.80%	-
Hydro %	-	58.27%	-	-
Wind %	13.99%	-	-	-
Solar %	0.24%	0.56%	4.97%	6.99%

Source: URA website: [www.ura.gov.vu](http://www.ura.gov.vu)

Concessionary areas	EFATE	ESPIRITU SANTO	MALEKULA	TANNA
	Port Vila power station	Luganville power station	Lakatoro power plant	Lennakel power station
Generation capacity				
Number of installed diesel generation sets	10	8	4	4
Diesel capacity (diesel fuel + CNO) (MW)	26.5		0.5	-
Diesel capacity without CNO (MW)	-	2.9		0.5
Hydropower (MW)		1.2		
Diesel + hydropower capacity (MW)	26.5	4.1	0.5	0.5
Wind (MW)	3.02			
On-grid solar installed by the utility (MW)	0.07			0.04
Grid-connected solar*(MW)		0.040	0.020	-
Total capacity (MW)	29.59	4.14	0.52	0.54
Total (MW)	34.79			

Source: RRA Report; URA Website

### 2014 & 2015 Pipeline Projects;

- GPOBA- Access for 4,200 low income households
- VREP Phase 1- Access for 17,500 rural households
- EU Biofuel Project- Micro grids (Ambae and Banks)
- 772kW Grid connected UAE Solar Project in Port Vila
- 1 Micro Hydro Project (Talise Maweo)- 3 communities
- Tagara Geothermal Project

### 2016 Focus Projects;

- VREP Phase 2- Standalone Micro Grids in Public Institutions (Health and Education) and large communities
- 2MW Solar Farm in Port Vila
- SREP- Development of a small Hydro Project (600kw)

## RRA Report Key Findings: Strategies and Actions

**Policy, regulation and legislation:** identify any gaps in background policies, regulations and legislation that may cause failure to reach any of the NERM targets

**On-grid renewable energy:** actions to work towards the NERM target of 65% of electricity generation from renewable energy

**Off-grid electricity access:** actions to work towards the target of 100% access in Vanuatu by 2020

- o review enabling legislation and other documents relating to DoE powers and duties and align them with NERM needs
- o support URA and DoE roles in NERM
- o facilitate coordination among development partners
- o prepare dynamic models of the Vanuatu grids
- o prepare and publish comprehensive standards for grid-connected renewables specific to Vanuatu conditions
- o train and build capacity of local contractors and monitoring officials
- o finance private sector installation of grid-connected renewables
- o design an institutional approach for sustained operation of SHS for off-grid electrification of households and public buildings
- o develop standard designs for SHS and solar mini-grids
- o build capacity for sustained off-grid solar technology
- o develop a strategy to increase access to electricity in rural areas
- o off grid market study

## Engaging Development Partners

### o RE Target: NERM

**On Grid-** Increase from 43% (current) to 65% by 2020.

**Off Grid-** Increase from 30% (current) to 100% by 2020.

- o **Approach:** Implementing a sector-wide approach under the principle of "Many Partners, One Team, One Plan".

### Ongoing Actions:

- Provide local support to National/ Regional Energy Experts - GGGI, World Bank, ADB, UNDP & SPC to be on the lookout for bankable projects.
- Developing proposal including Off Grid study markets and circulate to Partners.
- Regional Information sharing (SPC, PPA, PRDR)
- Engage private sector participation on Projects
- Close collaboration with Donor Agencies to ensure RE Projects are implemented in an orderly fashion.

Thank you!!



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