

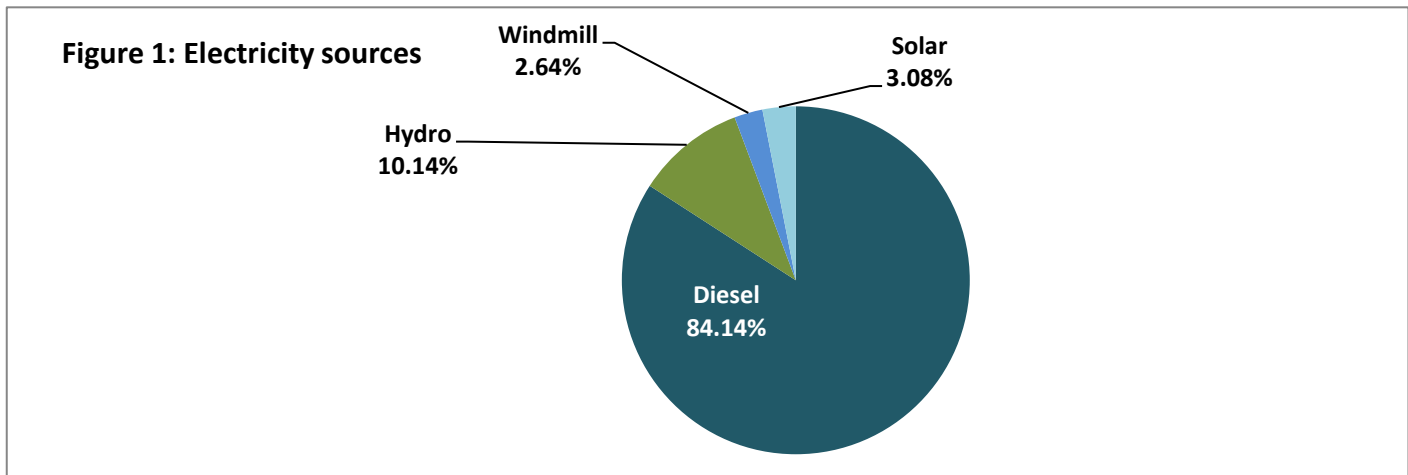
## VANUATU MONTHLY ENERGY MARKET SNAPSHOT OF MARCH 2024

### Overview of the Month

This report issued by the Utilities Regulatory Authority (the Authority) provides an electricity market update in Vanuatu for the month of March 2024 for electricity utilities that are regulated by the Authority. During the month, diesel remained as the dominant source of generating power in Vanuatu. Renewable energy contribution from hydro and wind had slightly increased compared to the previous month. Total power produced had increased from February 2024, however total power sold declined during the month.

### Electricity Source

Figure 1 below presents the overall market share of the different types of energy generation sources used by regulated utilities in Vanuatu during the reporting month. The main energy source is diesel combustion that contributed 84.14% of the total electricity produced in the month, followed by hydro plant on Santo (Sarakata) with a total of 10.14%, followed by solar panels on Efate, Luganville (Santo) and Wintua/Lorlow (Malekula) with an aggregate total share of 3.08% and windmills on Efate of 2.64%.



### Electricity Generation by Area

The top part of Table 1 below shows the total energy production from all available energy sources and the total quantity of diesel used to generate electricity in each service area during the month. The bottom part of the table reveals the respective contributions in % from the available energy generation sources in each service area<sup>1</sup>.

**Table 1: Generation Mix by Electricity Grid**

Mar-24	Efate	Luganville, Santo	Malekula- Lakatoro*	Tanna*	Ambae	Vanua Lava	Maewo	Lorlow & Wintua, Malekula	Port Olry, Santo
Total kWh Produced	5,941,633	1,182,419	107,132	127,501	20,795	6,911	5,978	4,505	15,383
Litres of diesel used	1,371,700	120,526	39,015	36,862	5,360	2,844	-	-	4,816
Diesel %	93.0%	35.7%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	100.0%
Copra oil %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hydro %	0.0%	64.2%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
Wind %	3.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Solar %	3.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%

\*The Malekula (Lakatoro) Hydro contribution is nil as the hydro plant was not operating. This was confirmed by the Authority after a site visitation.

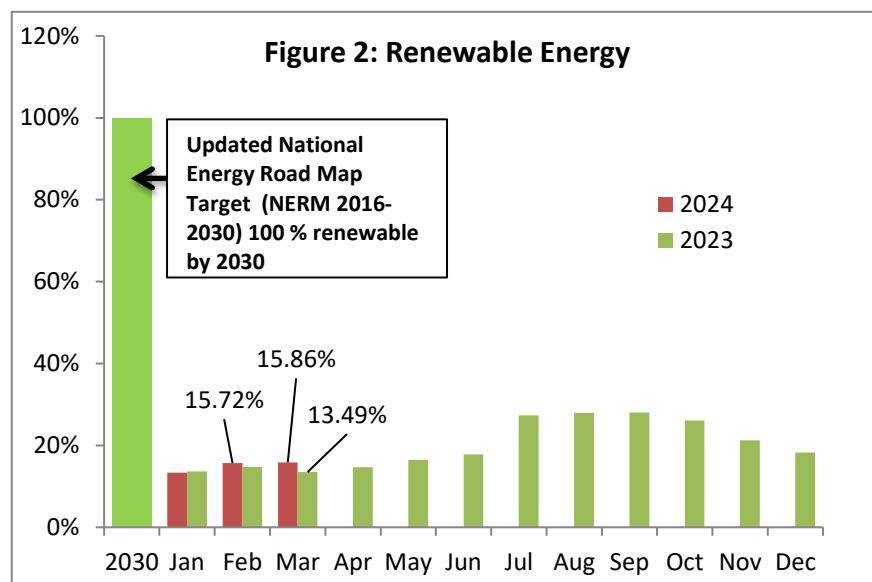
<sup>1</sup> The Wintua and Lorlow (operated by the Wintua/ Lorlow Electrical Cooperative) data was also projected based on 2022 data. The Authority is working closely with the operator to provide updated monthly data going forward.

## Renewable Energy Generation

Figure 2 on the right presents the portion of electricity generated from renewable energy (RE) sources<sup>2</sup> during the month in Vanuatu. The 2023 renewable energy contributions can be compared with the year-to-date (YTD) renewable proportions for 2024.

The graph shows RE contribution this month is 0.14% higher than February 2024. RE contribution this month is also higher than the same month in the previous calendar year by 2.37%.

Figure 2 also provides an overview on the status of 'Vanuatu's renewable electricity generation' in concession and mini-grid areas in comparison to the NERM's<sup>3</sup> target.



## Number of customers

Table 2 outlines number of customers in different electricity network in Vanuatu (See notes for more information).

Table 2: Customer numbers per electricity network area

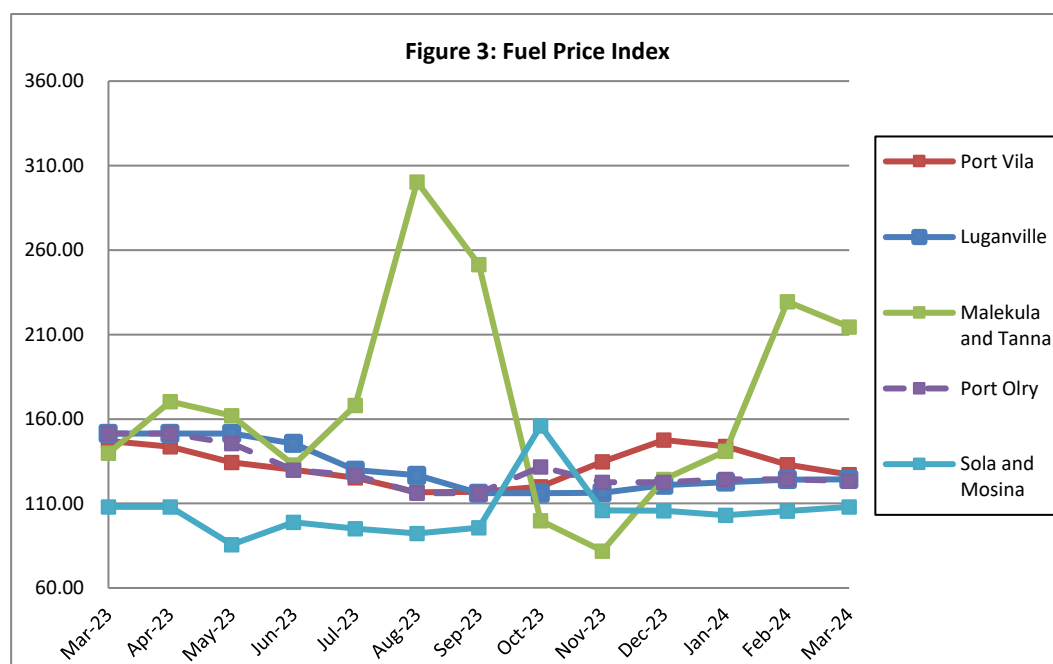
Jan-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,107	3,798	1,169	1,055	299	197	119	109	121
Feb-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,168	3,805	1,191	1,032	312	190	116	107	121
Mar-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,159	3,777	1,197	1,026	313	200	123	109	121

## Fuel cost index

Figure 3, on the right presents the movement in fuel price index. It shows the price per liter of diesel and the evolution or movement of fuel price from March 2023 to the reporting month. The index point is updated to start 100 points in January 2020 to cater for electricity service areas that their operational data becomes available thereafter.

Fuel index for Malekula and Tanna shows a declining trend from the preceding month. Similarly, Port Vila fuel index also dropped in the reporting month.

Luganville and Port Olry fuel index is the same.



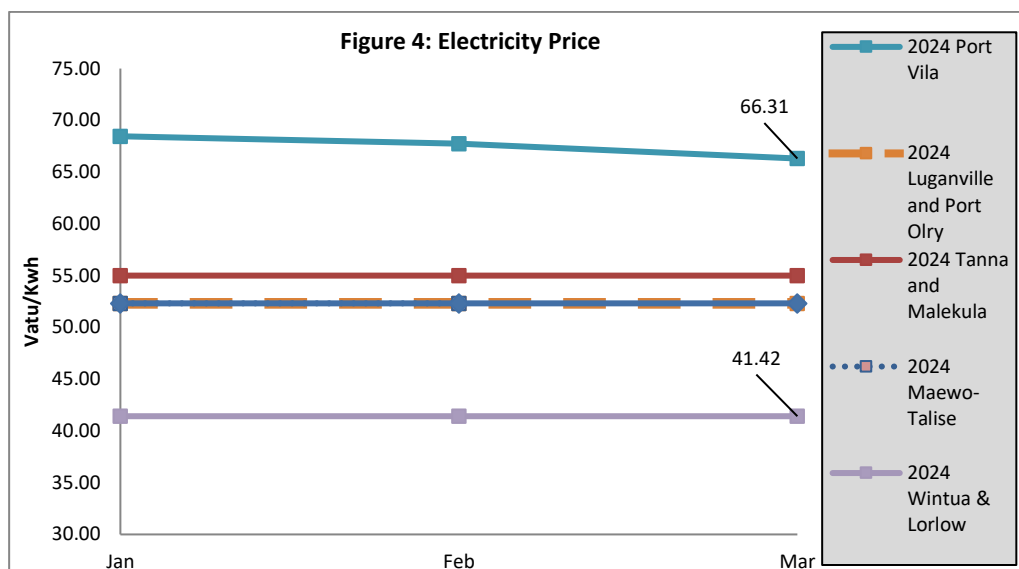
<sup>2</sup> Renewable sources include copra oil, hydro, solar and wind.

<sup>3</sup> Update National Energy Road Map 2016 – 2030. The target by 2030 is 100% generation from renewable energy sources.

## Electricity Price

UNELCO<sup>4</sup> tariff for the month of March 2024 is 66.31 Vatu/kWh. VUI<sup>5</sup>, VANPAWA<sup>6</sup> and the Wintua/Lorlow electrical Cooperative's<sup>7</sup> applicable tariff in Vatu/kWh of the same month is 52.32, 55.00 and 41.42 respectively.

UNELCO's actual operational parameters for a reporting month are typically utilized to compute electricity tariff for the following month.

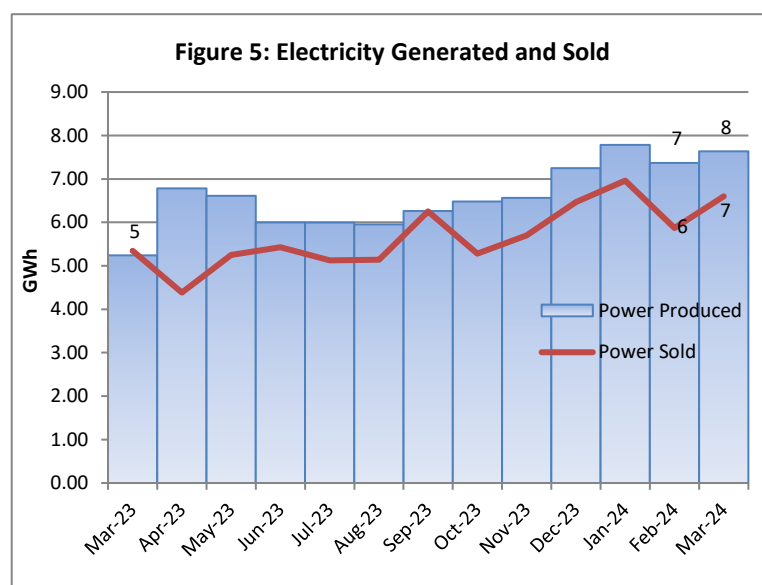


## Total Electricity Generated and Sold.

Total power produced increased by 11.04% from preceding month; Comparing it with the equivalent month in previous calendar year, the total power produced is much higher by 19.03% or 3GWh.

However, total power sold during the month has plummeted by 16.66 % from the previous month. Comparing it with the same month in 2023 total power sold had slightly increased by 0.99%.

Changes in power produced and sold are entirely dependent on electricity consumption and power losses during the reporting month.



The data utilized in creating this monthly energy snapshot does not include electricity production outside of a concession agreement or MOU.

### About the Utilities Regulatory Authority (URA)

<sup>4</sup> Union Electrique du Vanuatu, The UNELCO Engineering, supplies electricity to Port Vila  
<sup>5</sup> Vanuatu Utilities & Infrastructure Limited 2007 established in Luganville and Port Olry (Santo), Sola & Mosina (Vanua Lava), Saratamata, Lolowai & Longana (Ambae) and Talise (Maewo).  
<sup>6</sup> VANPAWA Limited is a newly established electricity operator that supplies and manages the provision of electricity and water supply to companies and public services, promoting access and the long-term interest of the customers.  
<sup>7</sup> Wintua/Lorlow cooperative is operating the newly established Solar grid at Wintua and Lorlow in Malekula. For more information visit the Department of Energy's website ([www.doe.gov.vu](http://www.doe.gov.vu)).  
 Please call us if you have any question on (678) 23335 or visit our office at the Office of the Utilities Regulatory Authority, VNPF Compound, Corner Pierre Lamy & Andre Ballande Street, Port Vila, Vanuatu.



The URA welcomes suggestions and feedback from readers of this monthly energy snapshot report. Any readers desiring to seek clarification of this report are encouraged to contact the URA.