

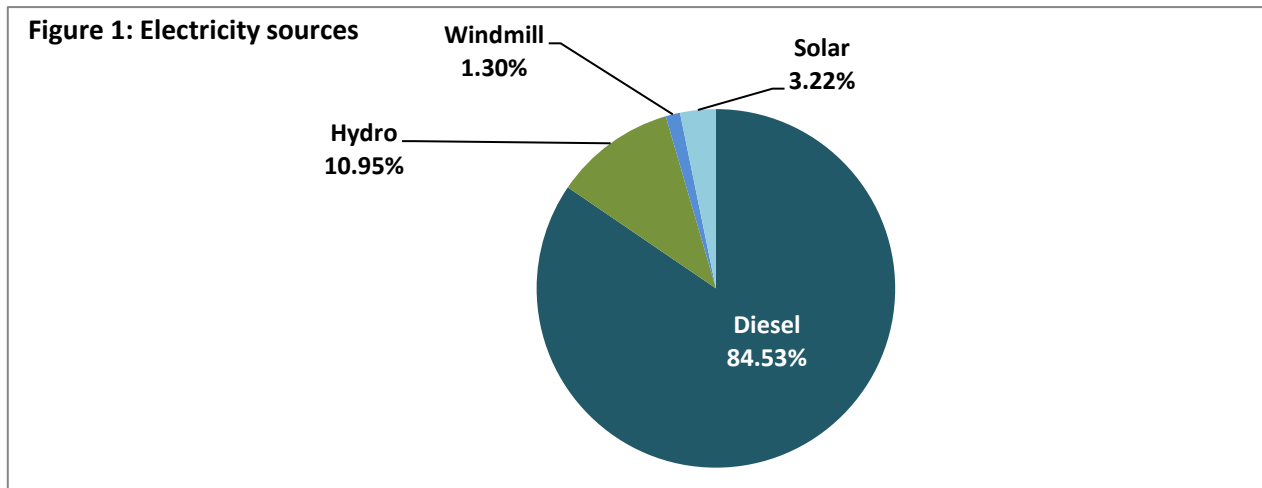
VANUATU MONTHLY ENERGY MARKET SNAPSHOT OF DECEMBER 2024

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 December 2024 for electricity utilities that are regulated by the Authority. While total power generated has slightly declined by 3.55% from November 2024, power sales had increased by 1.47%. Wind energy contributions dropped during the month, while solar and hydro saw significant growth. Diesel remained the dominant source, supplying 84.53% of electricity. Fuel prices held steady for Efate and Santo but dropped sharply in Malekula and Tanna. Electricity tariffs for the month stood at 60.16 Vatu/kWh for UNELCO and 62.57 Vatu/kWh for VUI.

Electricity Source

Figure 1 illustrates the market share of various energy generation sources used by regulated utilities in Vanuatu for the reporting month. Diesel remained the dominant source, accounting for 84.53% of total electricity production. Hydro power plants in Santo (Sarakata) and Maewo (Talise) contribute to a combined 10.95% share, followed by solar energy, generated from panels in Efate, Luganville (Santo), Lakatoro (Malekula), and Lenakel (Tanna), represents a total share of 3.22% while windmill power on Efate at only a 1.30% contribution.



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 area¹.

Table 1: Generation Mix by Electricity Grid

Dec-24	Efate	Luganville, Santo	Malekula- Lakatoro*	Tanna*	Ambae	Vanua Lava	Maewo	Lorlow & Wintua, Malekula	Port Olry, Santo
Total kWh Produced	5,445,145	1,192,970	104,285	129,313	14,792	7,574	8,033	7,869	-
Litres of diesel used	1,208,000	123,722	30,915	-	5,774	3,441	-	-	-
Diesel %	94.3%	36.3%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	0.0%
Copra oil %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hydro %	0.0%	63.5%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
Wind %	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Solar %	4.0%	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. The Malekula- Lakatoro, there was no record of the litres of diesel used. Port Olry network has been integrated/connected to Luganville grid hence there were no records shown.

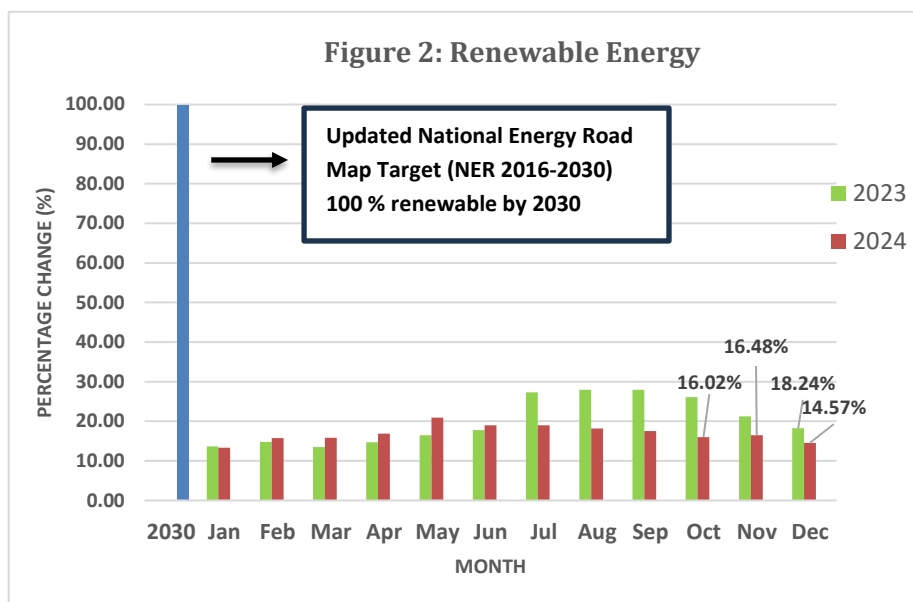
¹ The Wintua and Lorlow (operated by the Wintua/ Lorlow Electrical Cooperative) data was also projected based on 2022 data. The Authority is working closely with the operator to provide updated monthly data going forward.

Renewable Energy Generation

Figure 2 on the right presents the portion of electricity generated from renewable energy (RE) sources² 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 indicates renewable energy contribution saw a sharp decline this month due to reduced windmill production. However, RE percentage in December 2024 remains lower than that of December 2023.

Figure 2 also provides 'Vanuatu's renewable electricity generation' target as per Vanuatu's Nation Sustainability Development Plan 2016 -2030 (NSDP).



Number of customers

Table 2 outlines the number of customers in different electricity network in Vanuatu.

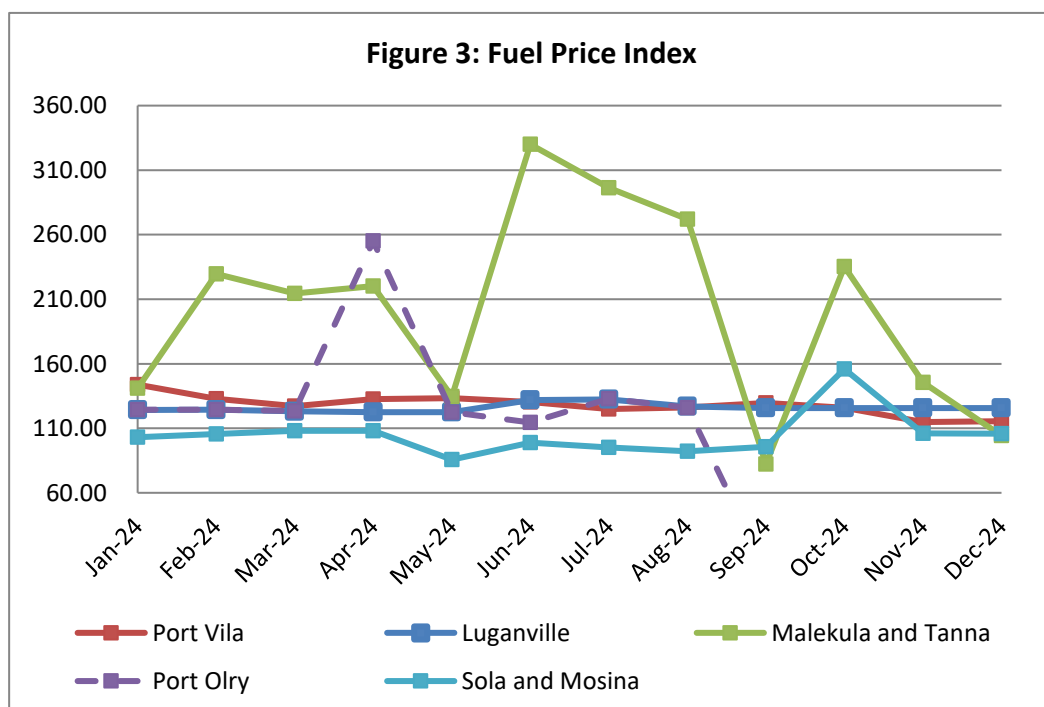
Table 2: Customer numbers per electricity network area

Oct-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,461	3,822	1,222	1,102	324	199	128	124	121
Nov-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,523	3,827	1,351	1,087	317	207	130	124	121
Dec-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow
Total active customers	17,605	3,854	1,338	1,128	312	213	135	122	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 in 2024. 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 prices in Port Vila (Efate) and Luganville (Santo) show minimal fluctuation, maintaining a steady trend throughout the year. Meanwhile, the average fuel index for Malekula and Tanna saw a significant decline. As for Port Olry, there is no data available since Port Olry mini grid is now connected to the Luganville grid.



² Renewable sources include copra oil, hydro, solar and wind.

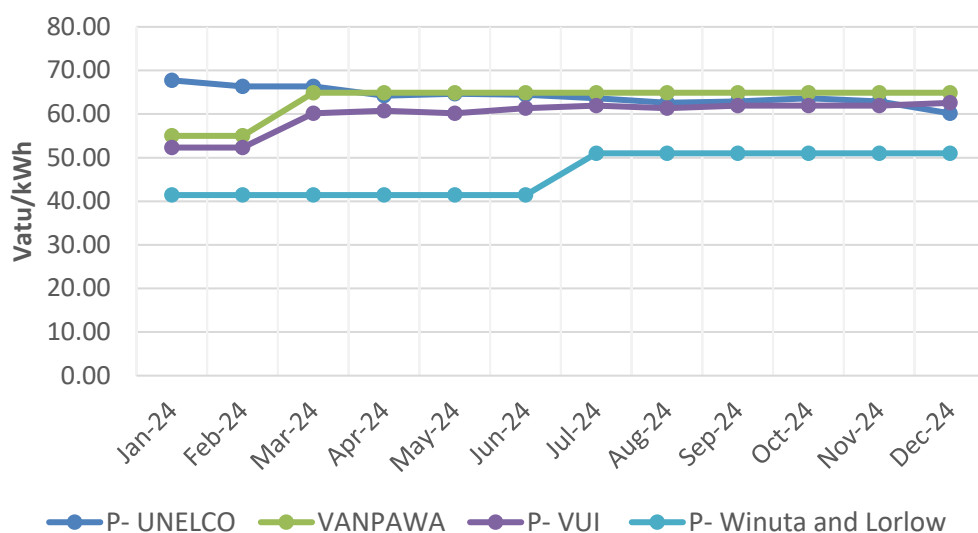
Electricity Price

UNELCO³ tariff for the month of December 2024 is 60.16 Vatu/kWh.

VUI⁴, VANPAWA⁵ and the Wintua/Lorlow electrical Cooperative's⁶ applicable tariff in Vatu/kWh of the reporting month is 62.57, 64.89 and 51, respectively.

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

Figure 4: Electricity Price



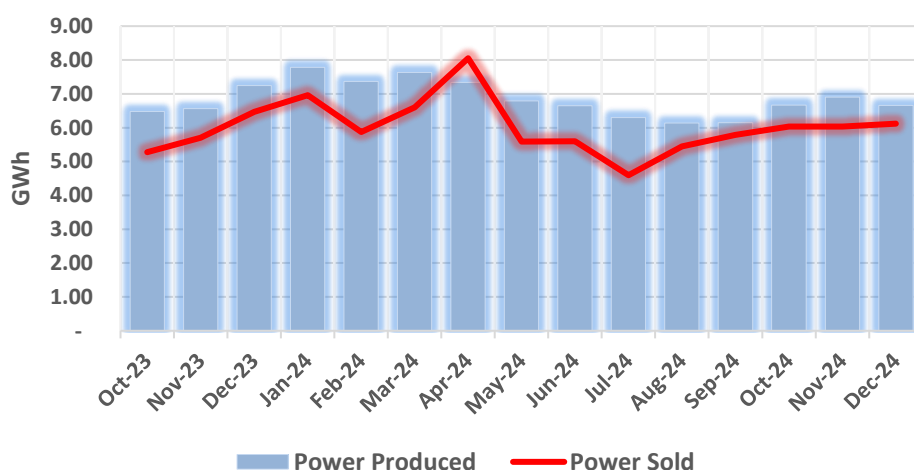
Total Electricity Generated and Sold

Total power produced decreased by 3.55% from preceding month; Comparing it with the equivalent month in previous calendar year, the total power generated had decreased by 8.17%.

Total power sold during the month has increased by 1.47% from the previous month. Comparing it with the same month in 2023 total power sold decreased by 5.36%.

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

Figure 5: Electricity Generated and Sold



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)

The URA is the independent economic regulator for water and electricity services in Vanuatu, established by the URA Act no. 11 of 2007 with amendments.

As part of its functions, the Commission is monitoring the provision of electricity and water by utility companies and public services, promoting access and the long-term interest of the customers.

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.

³ Union Electrique du Vanuatu, <<UNELCO Engie>>, supplies electricity in Port Vila

⁴ Vanuatu Utilities & Infrastructure Limited supplies electricity in Luganville and Port Olry (Santo), Sola & Mosina (Vanua Lava), Saratamata, Lolowai & Longana (Ambae) and Talise (Maewo).

⁵ VANPAWA Limited is a newly established electricity operator that supplies electricity in the Tanna and Malekula concessions since May 2023.

⁶ 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)