

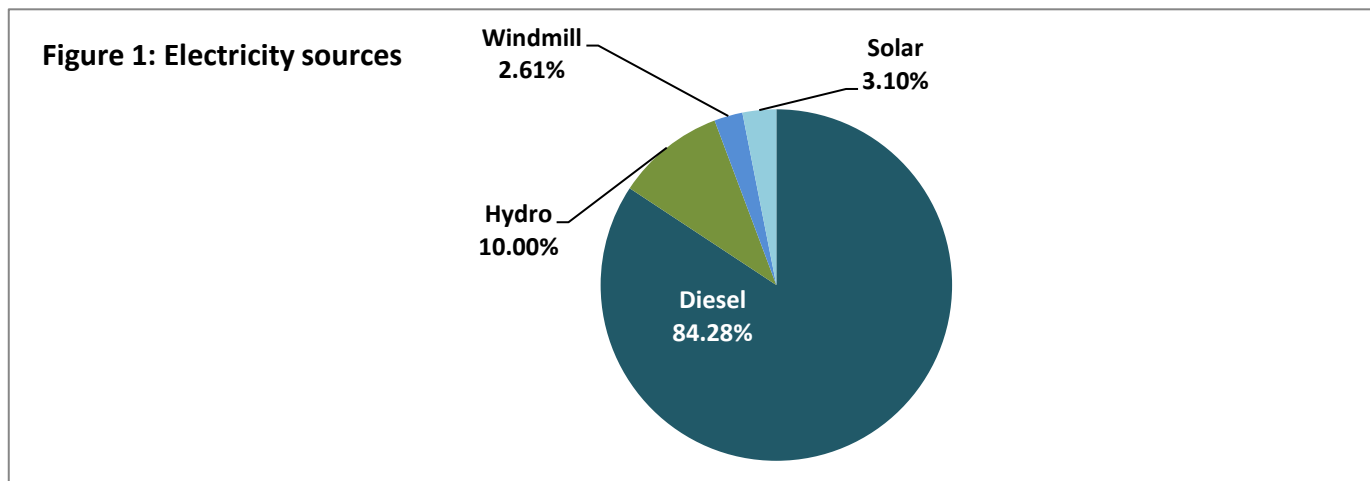
VANUATU MONTHLY ENERGY MARKET SNAPSHOT OF FEBRUARY 2024

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 February 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. Power produced during the month had decreased compared to January 2024, however total power sold showed a positive increase 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 was diesel combustion that contributed 84.28% of the total electricity produced, followed by hydro plant on Santo (Sarakata) with a total of 10.00%, followed by solar panels on Efate, Luganville (Santo) and Wintua/Lorlow (Malekula) with an aggregate total share of 3.10% and windmills on Efate of 2.61%.



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

Feb-24	Efate	Luganville, Santo	Malekula-Lakatoro*	Tanna*	Ambae	Vanua Lava	Maewo	Lorlow & Wintua, Malekula	Port Olry, Santo
Total kWh Produced	6,409,687	1,204,406	108,049	128,346	15,189	6,795	7,178	4,820	16,824
Litres of diesel used	1,472,200	120,475	37,000	36,770	5,755	2,531	-	-	5,478
Diesel %	93.1%	33.5%	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%	66.4%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
Wind %	3.2%	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.

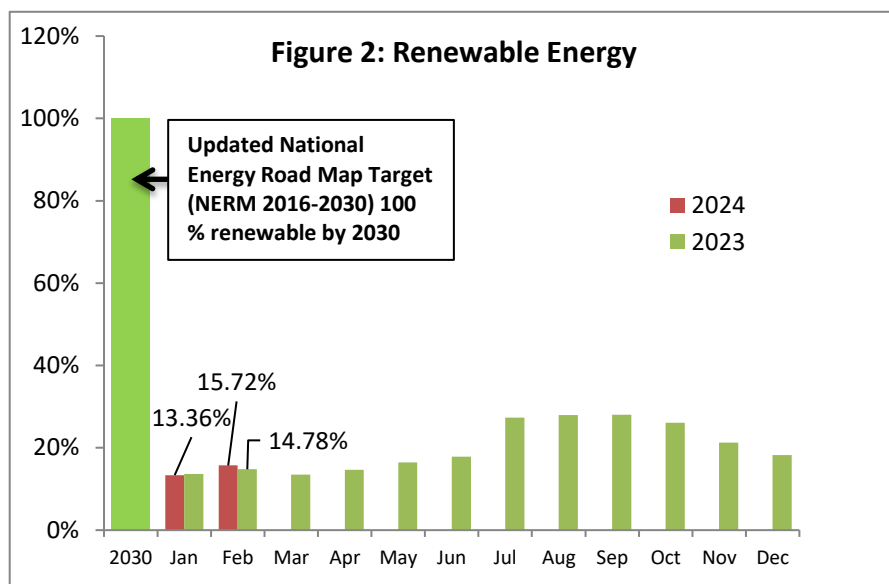
¹ The Wintua and Lorlow (operated by the Wintua/ Lorlow Electrical Cooperative) data was also projected based on 2022 data. The Authority is working closely with the operator to provide updated monthly data going forward.

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 shows RE contribution this month is 2.36% higher than January 2024. It is slightly higher than the same month in the previous calendar year by 0.94%.

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's³ 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

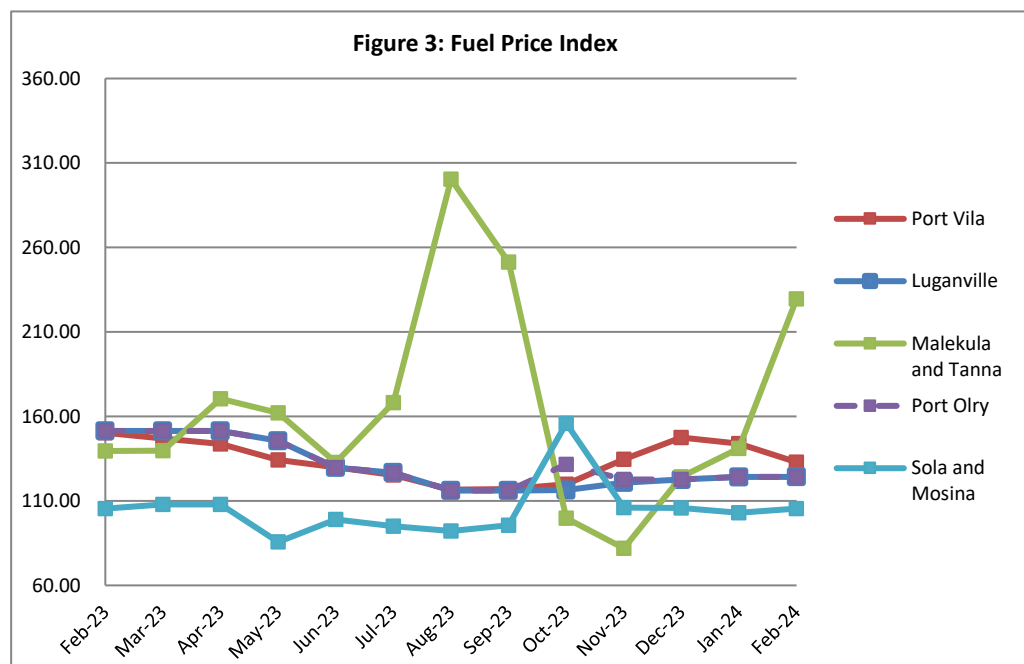
Dec-23									
Electricity Network	Port Vila	Luganville	Tanna*	Malekula*	Port Olry	Talise (Maewo)	Ambae	Vanua Lava	Wintua-Lorlow*
Total active customers	12,632	3,795	1,194	1,004	289	203	121	111	125
Jan-24									
Electricity Network	Port Vila	Luganville	Tanna	Malekula	Port Olry	Talise (Maewo)	Ambae	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

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 February 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 has significantly increased from the preceding month. Port Vila fuel index for the reporting month shows a decline.

Luganville and Port Olry fuel index is the same.



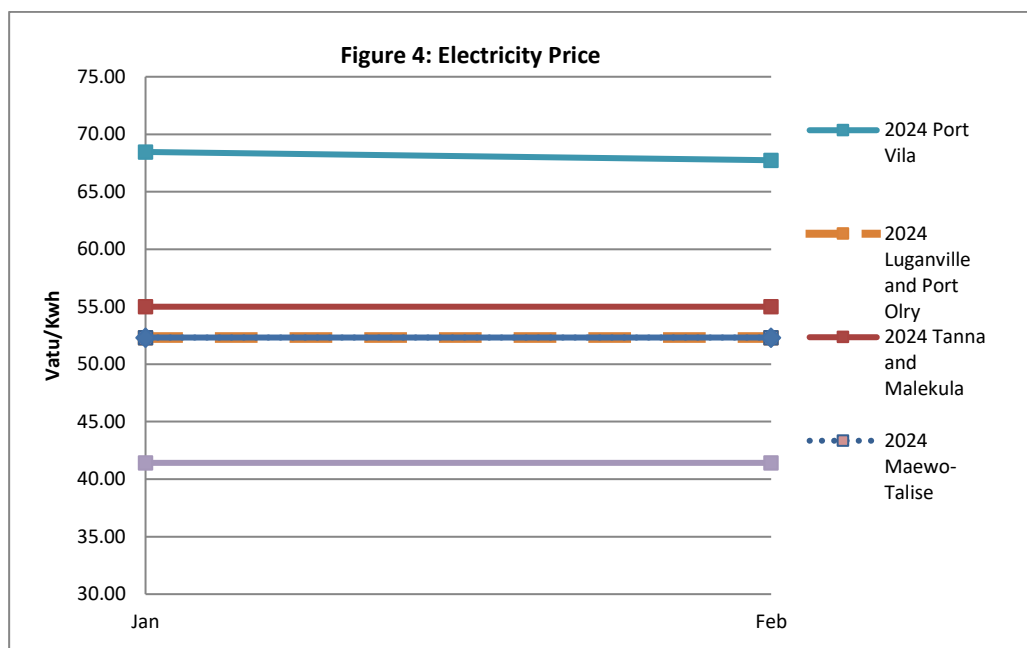
² Renewable sources include copra oil, hydro, solar and wind.

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

Electricity Price

UNELCO⁴ tariff for the month of February 2024 is 66.31 Vatu/kWh. VUI⁵, VANPAWA⁶ and the Wintua/Lorlow electrical Cooperative's⁷ 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.

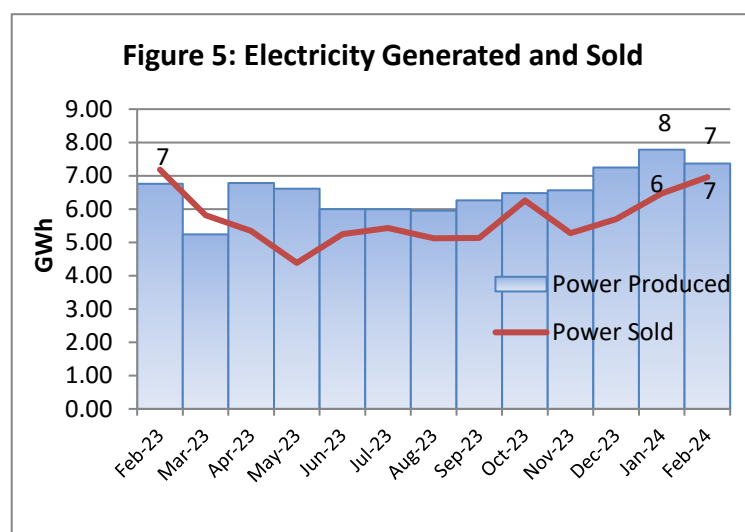


Total Electricity Generated and Sold.

Total power produced decreased by around 1 gigawatt-hour (GWh) or 5.64% from preceding month; Comparing it with the equivalent month in previous calendar year, the total power is 8.26% higher.

Total power sold during the month decreased by 18.55 % 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)

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.

⁴ Union Electrique du Vanuatu, <<UNELCO Engie>>, supplies electricity in Port Vila.

⁵ Vanuatu Utilities & Infrastructure Limited supplies electricity in Luganville and Port Olry (Santo), Sola & Mosima (Vanua Lava), Saratamata, Lolowai & Longana (Ambae) and Talise (Maewo).

⁶ VANPAWA Limited is a newly established electricity operator that supplies electricity in the Tanna and Malekula concessions since May 2023.

⁷ 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)



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.