

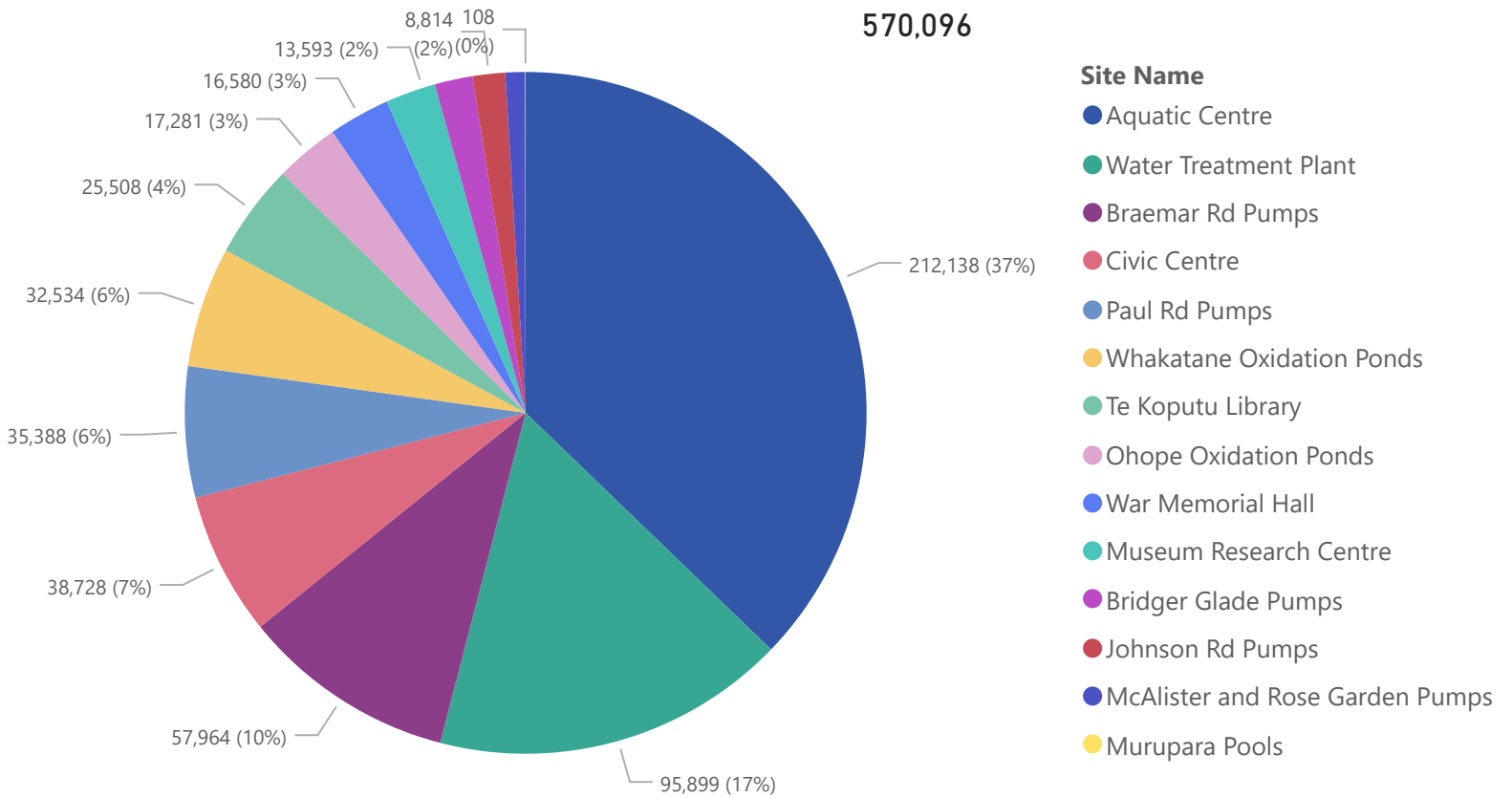
Whakatane District Council

Summary

<p>\$9,390</p> <p>Monthly Energy Cost Savings</p>	<p>54,181</p> <p>Elec. Savings (kWh/mo)</p>	<p>11%</p> <p>Elec. Savings (%)</p>	<p>609,090</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>4,699</p> <p>CO2e Savings (kg/mo)</p>
<p>\$107,446</p> <p>R12M Energy Cost Savings</p>	<p>- 11,587</p> <p>Gas. Savings (kWh/mo)</p>	<p>- 11%</p> <p>Gas. Savings (%)</p>	<p>- 98,895</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>59,319</p> <p>R12M CO2e Savings (kg/yr)</p>

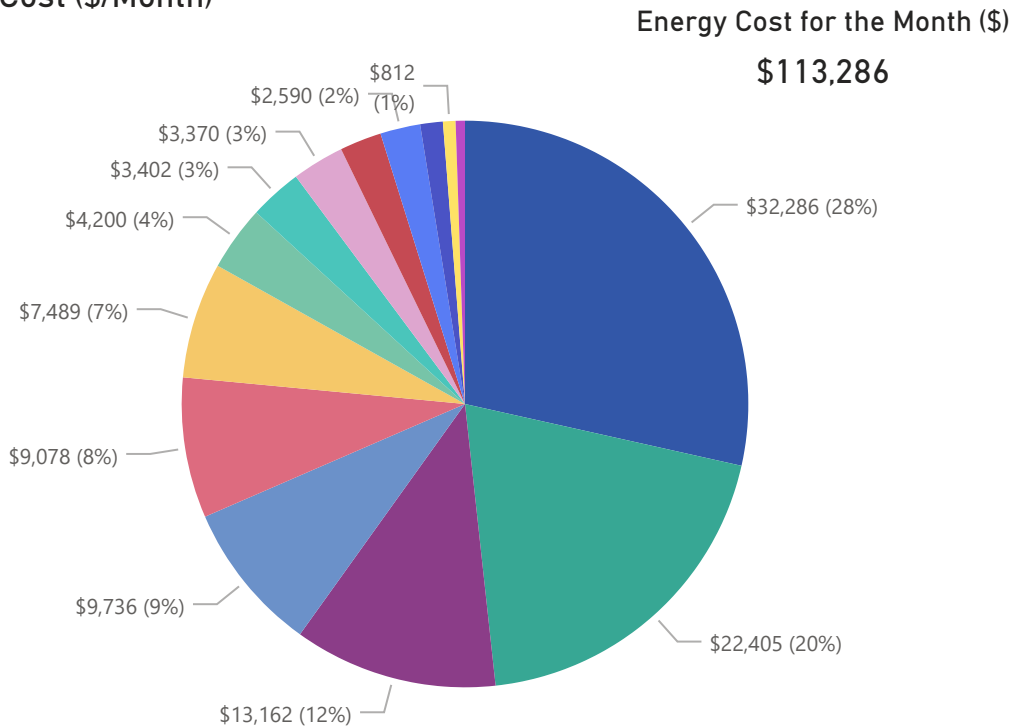
Total Energy (kWh/Month)

Total Energy Used for the Month (kWh)
570,096



Whakatane District Council Summary

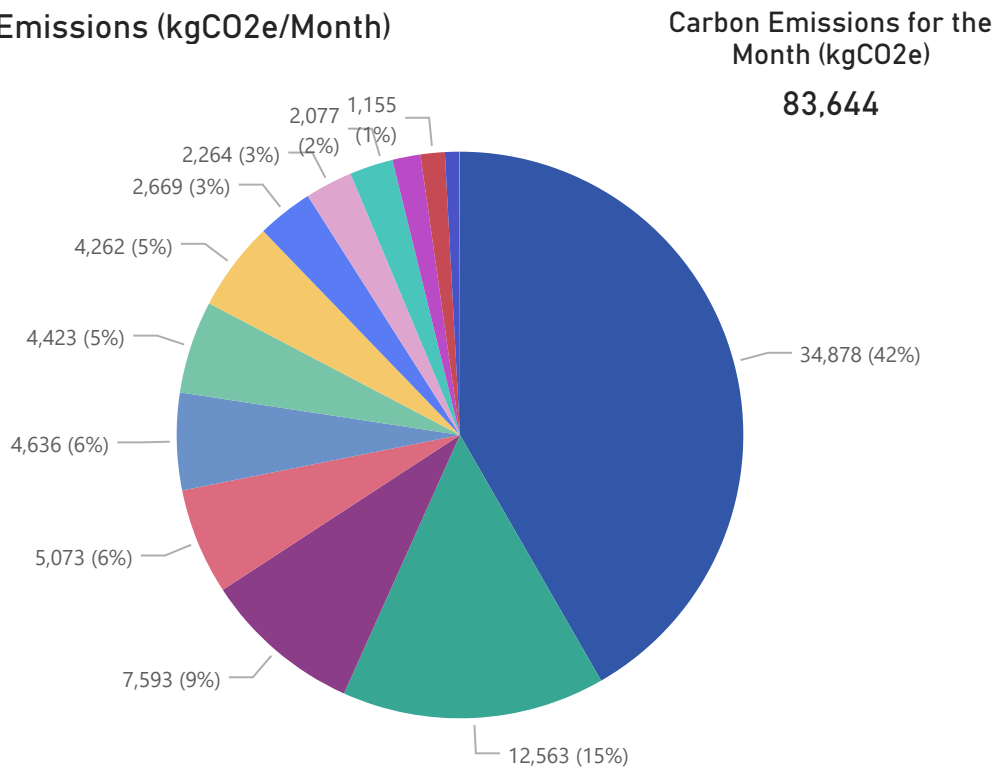
Energy Cost (\$/Month)



Site Name

- Aquatic Centre
- Water Treatment Plant
- Braemar Rd Pumps
- Paul Rd Pumps
- Civic Centre
- Whakatane Oxidation Ponds
- Te Koputu Library
- Museum Research Centre
- Ohope Oxidation Ponds
- Johnson Rd Pumps
- War Memorial Hall
- McAlister and Rose Garden Pumps
- Murupara Pools
- Bridger Glade Pumps

Carbon Emissions (kgCO2e/Month)



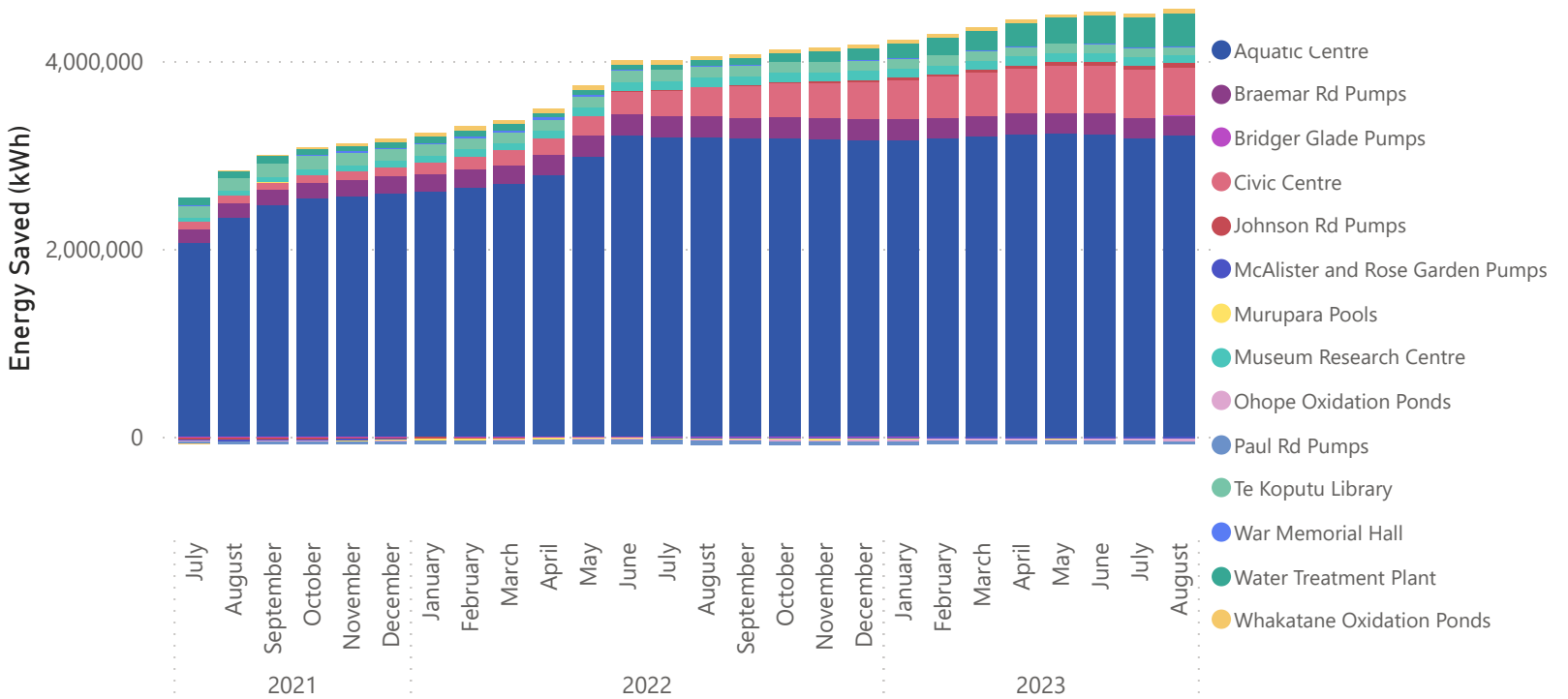
Site Name

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- Murupara Pools

Whakatane District Council

Summary

Cumulative Energy Savings (kWh)



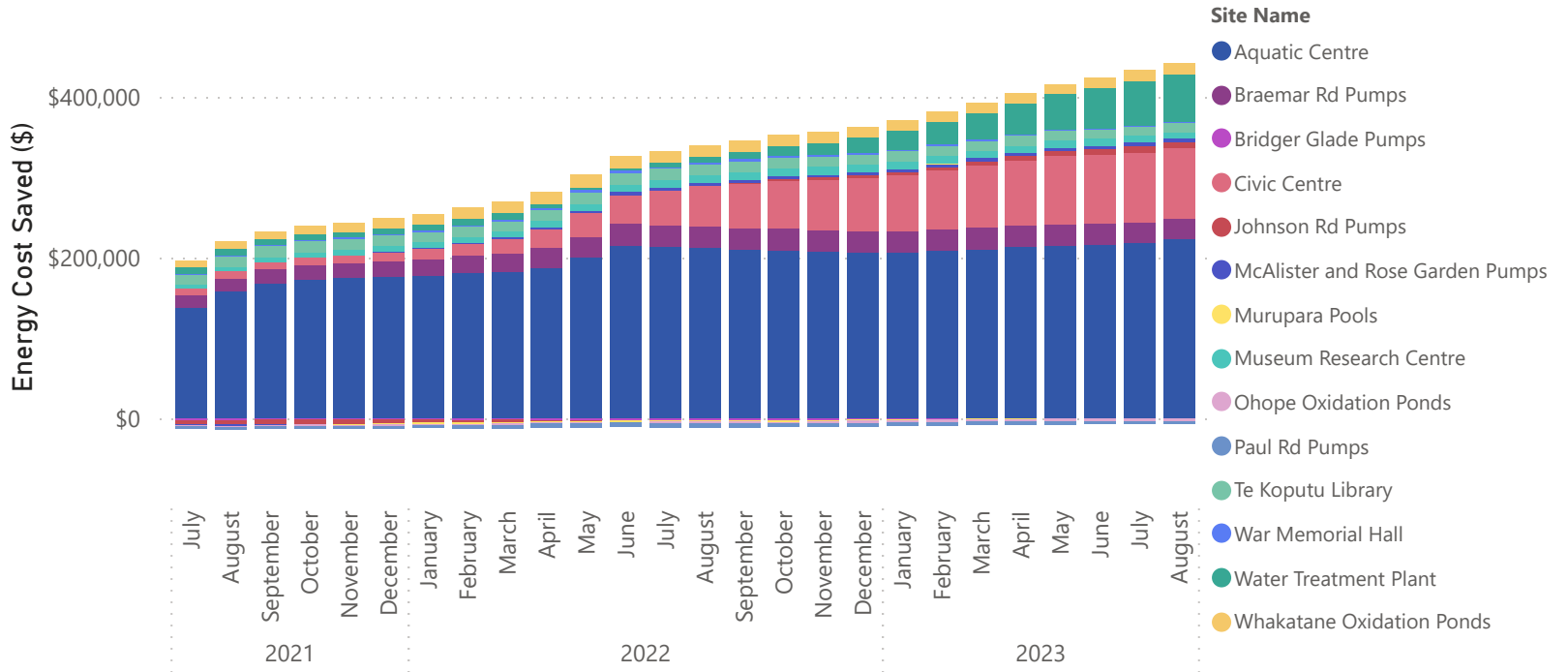
Note, cumulative savings are calculated starting July 2018

Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

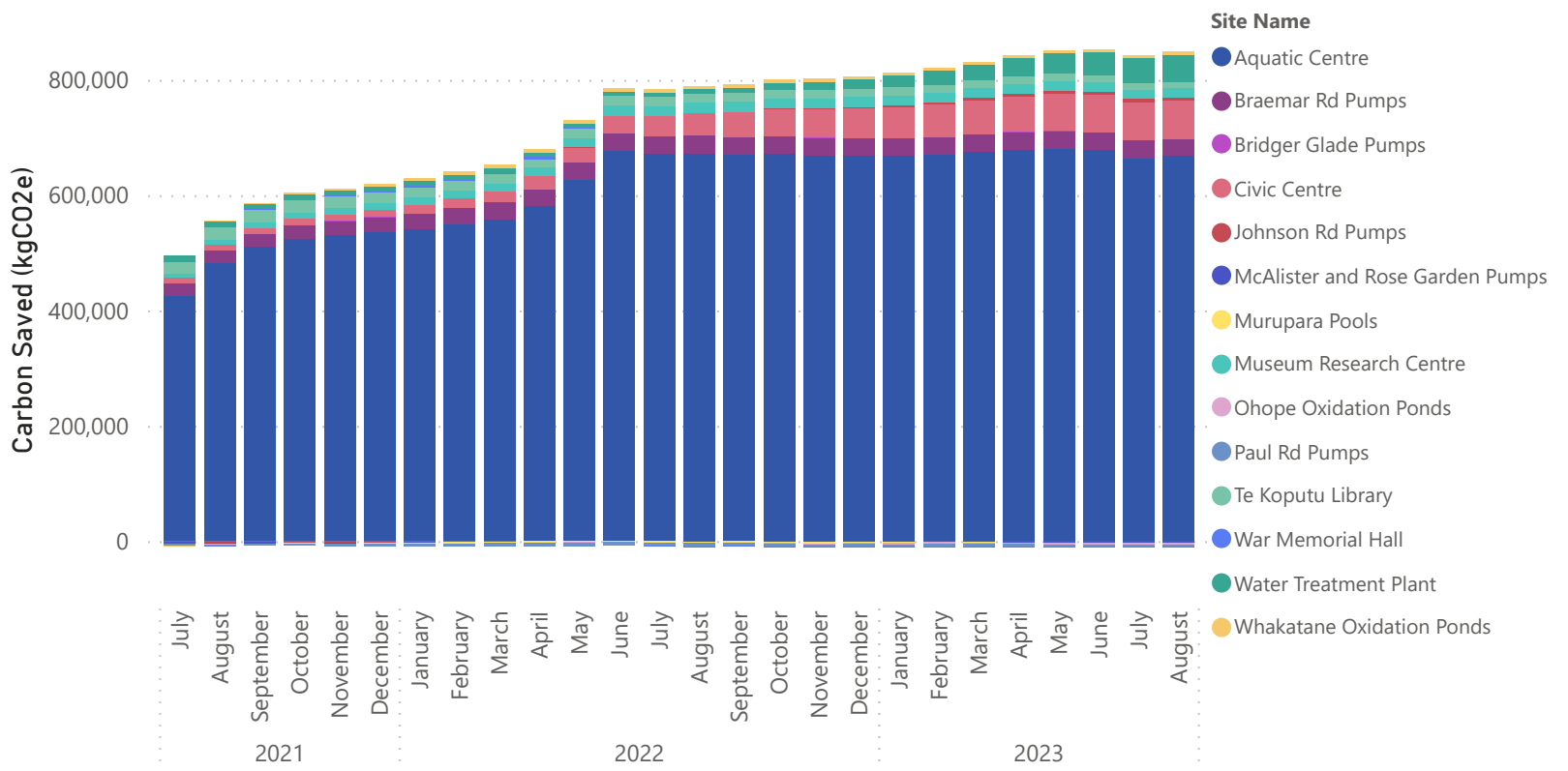
Summary

Cumulative Energy Cost Savings (\$)



Note, cumulative savings are calculated starting July 2018

Cumulative Carbon Savings (kgCO2e)



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
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Whakatane District Council

Civic Centre

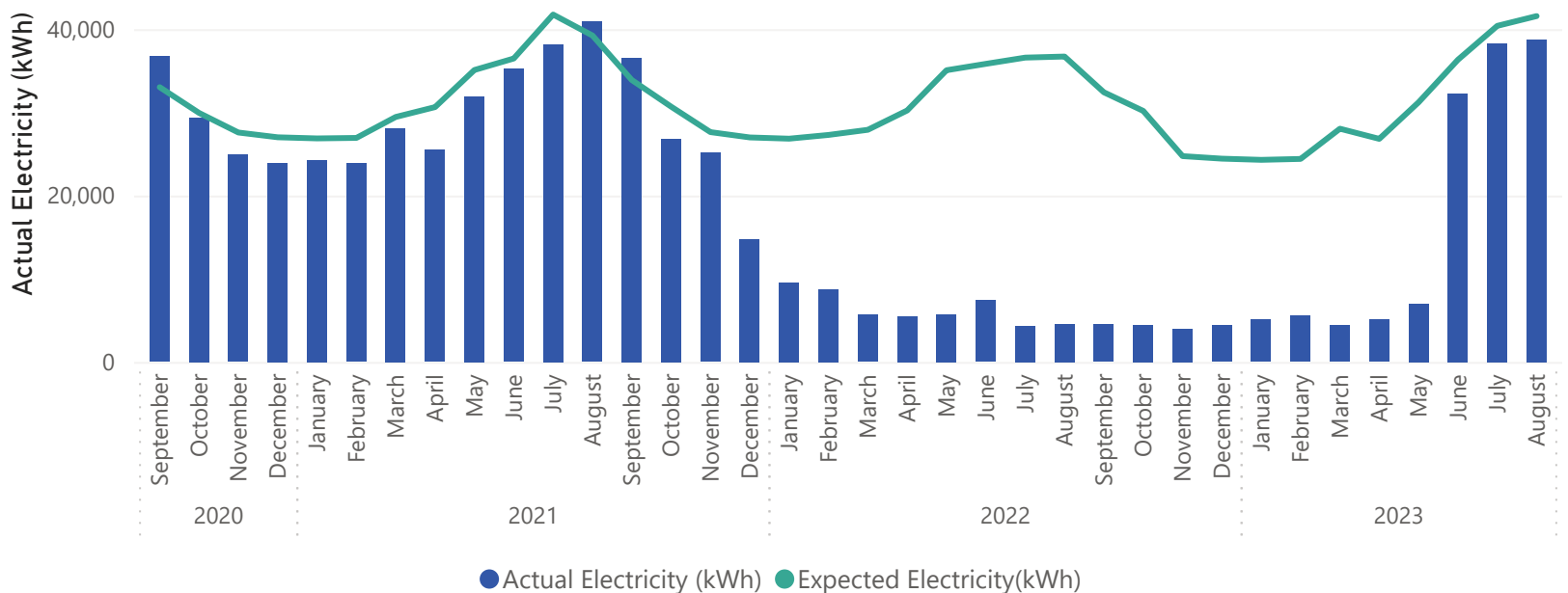
<p>\$539 Monthly Energy Cost Savings</p>	<p>2,847 Elec. Savings (kWh/mo)</p>	<p>7% Elec. Savings (%)</p>	<p>211,087 R12M Electricity Savings (kWh/yr)</p>	<p>373 CO2e Savings (kg/mo)</p>
<p>\$37,272 R12M Energy Cost Savings</p>			<p>27,652 R12M CO2e Savings (kg/yr)</p>	

Comments:

The Civic Centre has returned to normal operation after ongoing refurbishments. The pattern of electricity use has changed when comparing the Civic Centre in August 2023 to August 2021: Average demand during the day has decreased and afterhours demand has increased, particularly in the morning. Demand is also higher than August 2021 on the weekend, until 10:00am. The electricity use profile may be related to re-commissioning of the building and equipment being left on. Overall, electricity use is less than expected.

Electric vehicle charging stations have been in use from March 2021, non-routine adjustments are on-going to account for the increased electricity use.

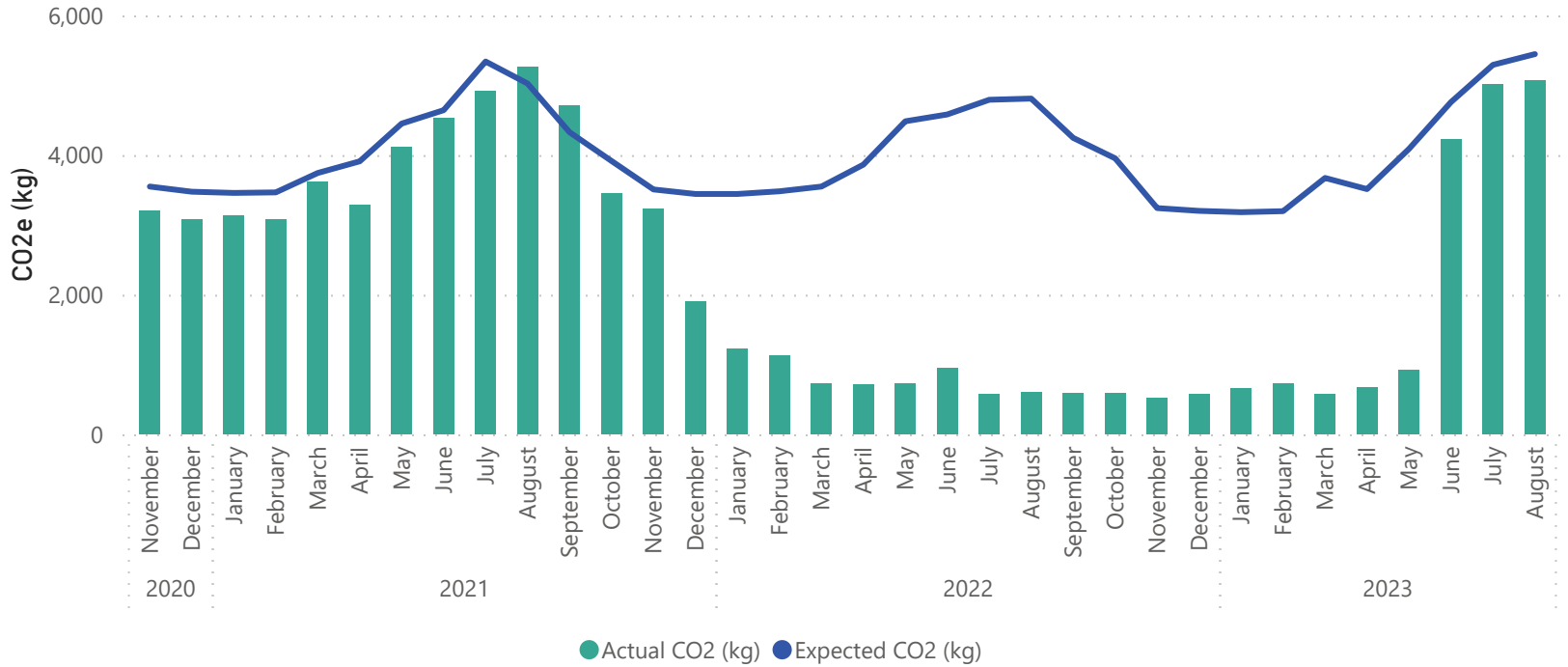
Civic Centre Electricity Use Compared to Baseline (kWh)



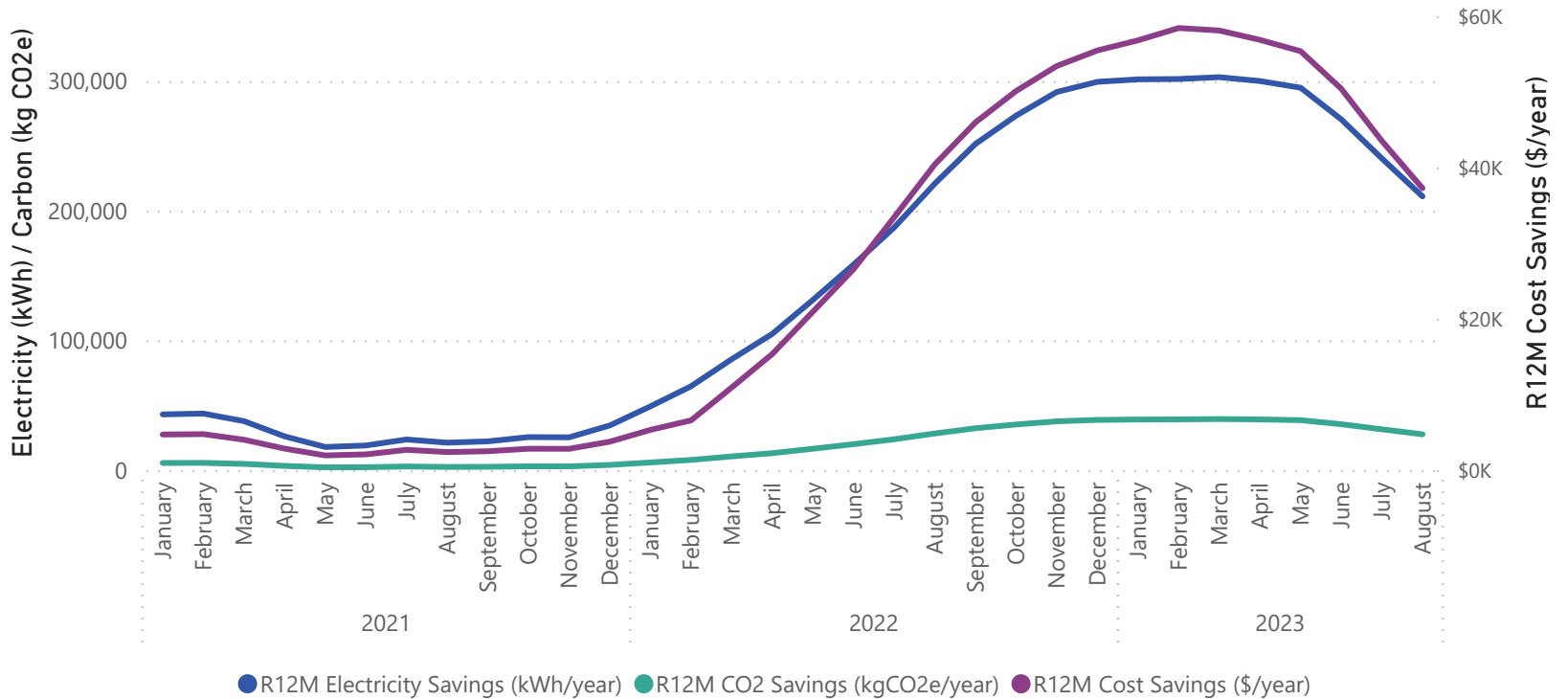
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Civic Centre

Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



Civic Centre Rolling 12 Month Savings

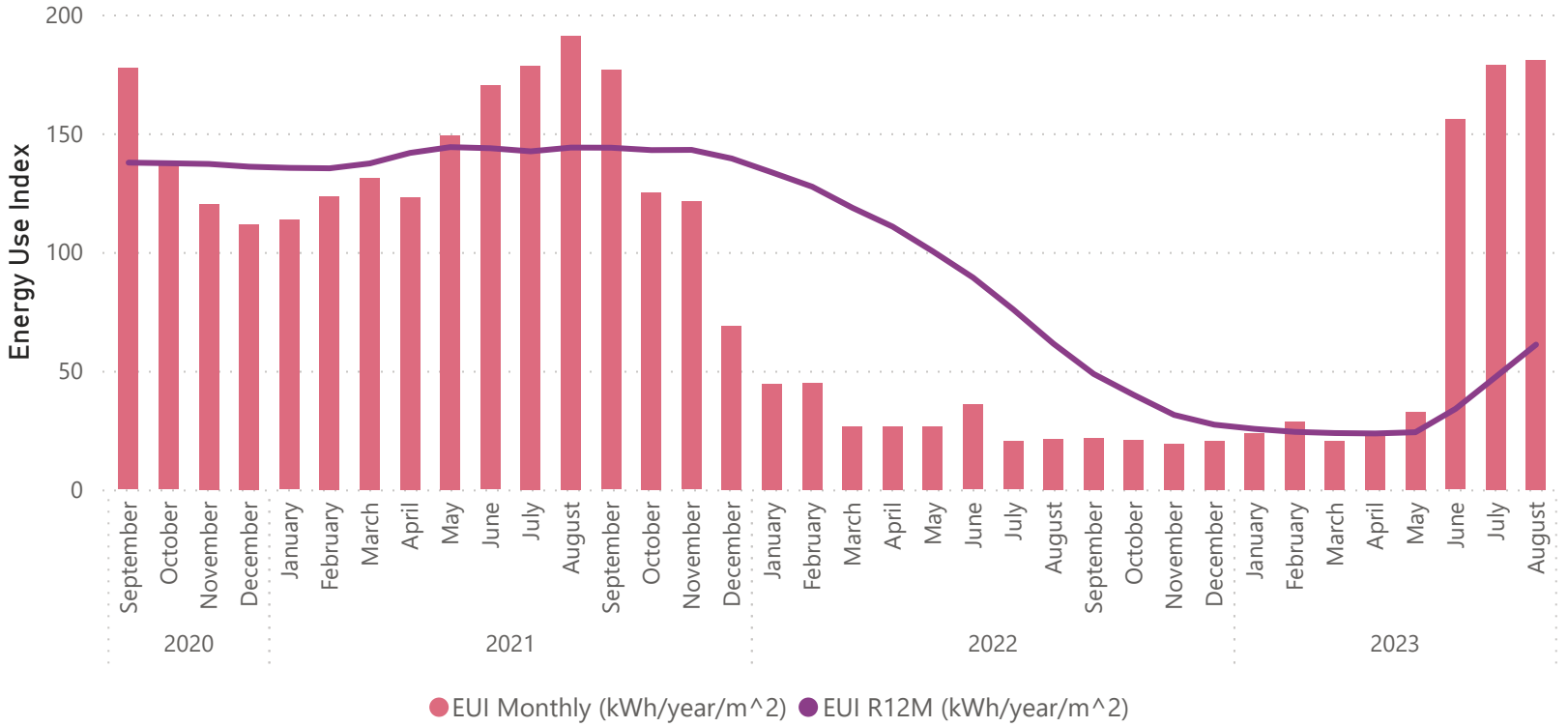


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

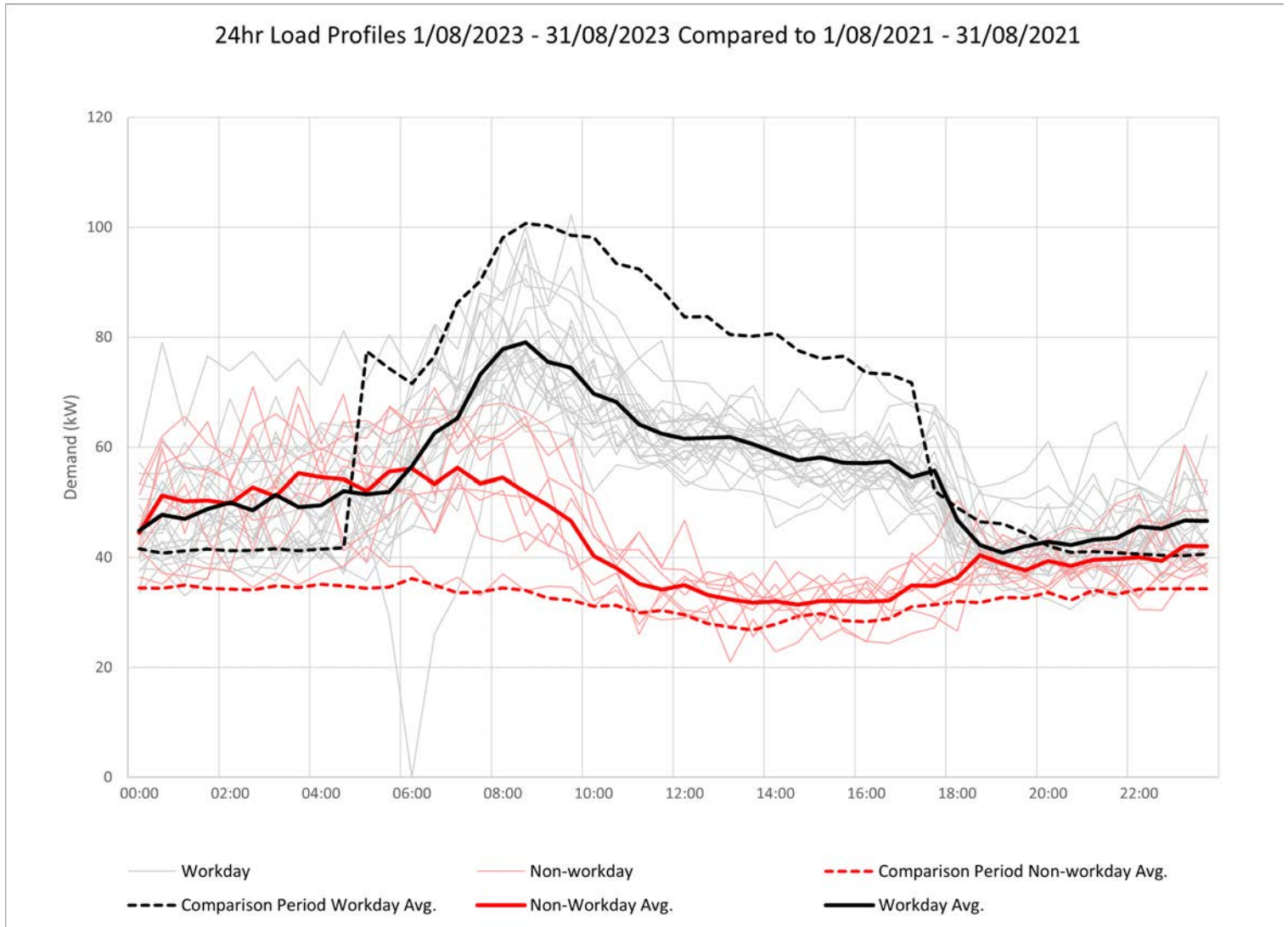
Civic Centre

Civic Centre Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council Civic Centre



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Whakatane District Council

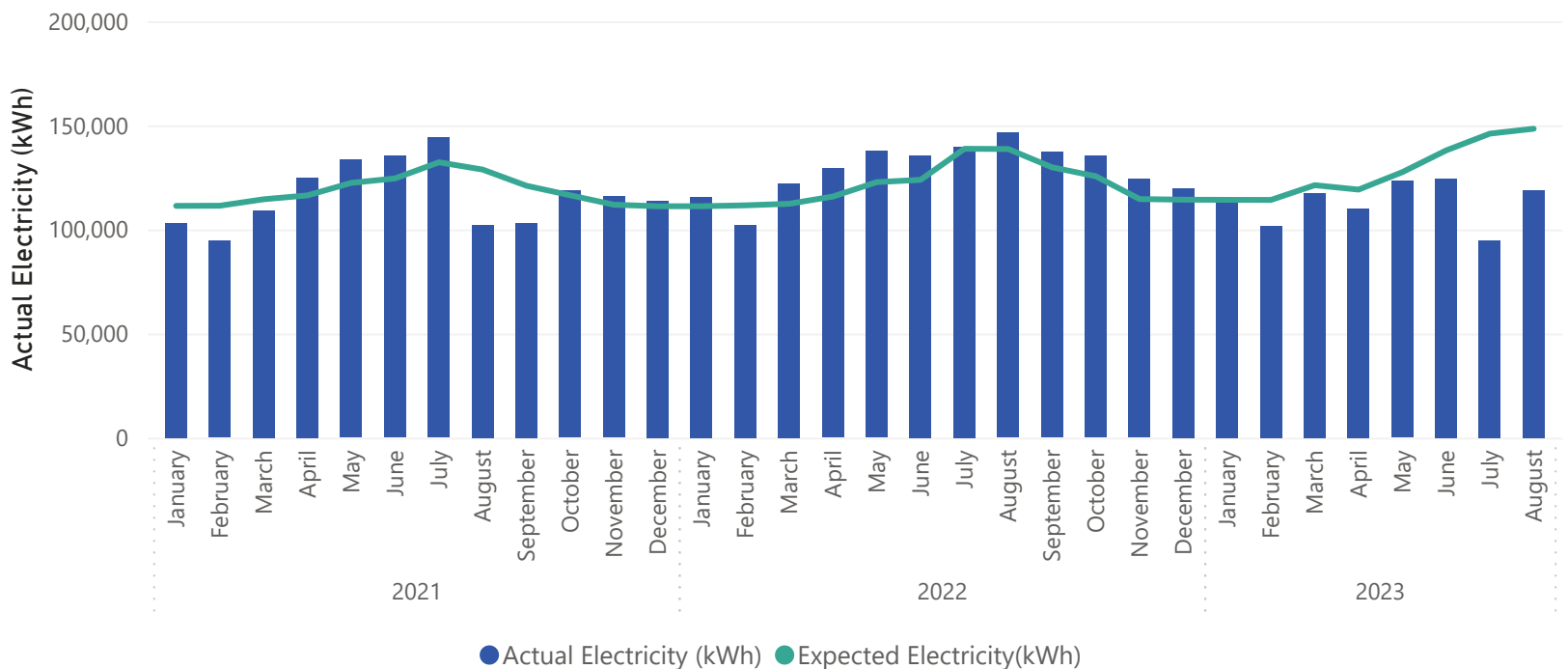
Aquatic Centre

<p>\$5,222</p> <p>Monthly Energy Cost Savings</p>	<p>29,485</p> <p>Elec. Savings (kWh/mo)</p>	<p>20%</p> <p>Elec. Savings (%)</p>	<p>90,951</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>3,056</p> <p>CO2e Savings (kg/mo)</p>
<p>\$11,590</p> <p>R12M Energy Cost Savings</p>	<p>-3,898</p> <p>Gas. Savings (kWh/mo)</p>	<p>-4%</p> <p>Gas. Savings (%)</p>	<p>-79,641</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-4,571</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was significantly less than baseline in August 2023 and gas was marginally higher than expected. The Aquatic Centre has been using the gas boilers as a temporary solution for six weeks while heat pump and plant equipment are being repaired and redeveloped. Previously gas was switched off from 17 December 2022 to 6 May 2023. The EUI for the month has increased, as would be expected with more use of the gas boilers, heat pumps use energy more efficiently.

Aquatic Centre Electricity Use Compared to Baseline (kWh)

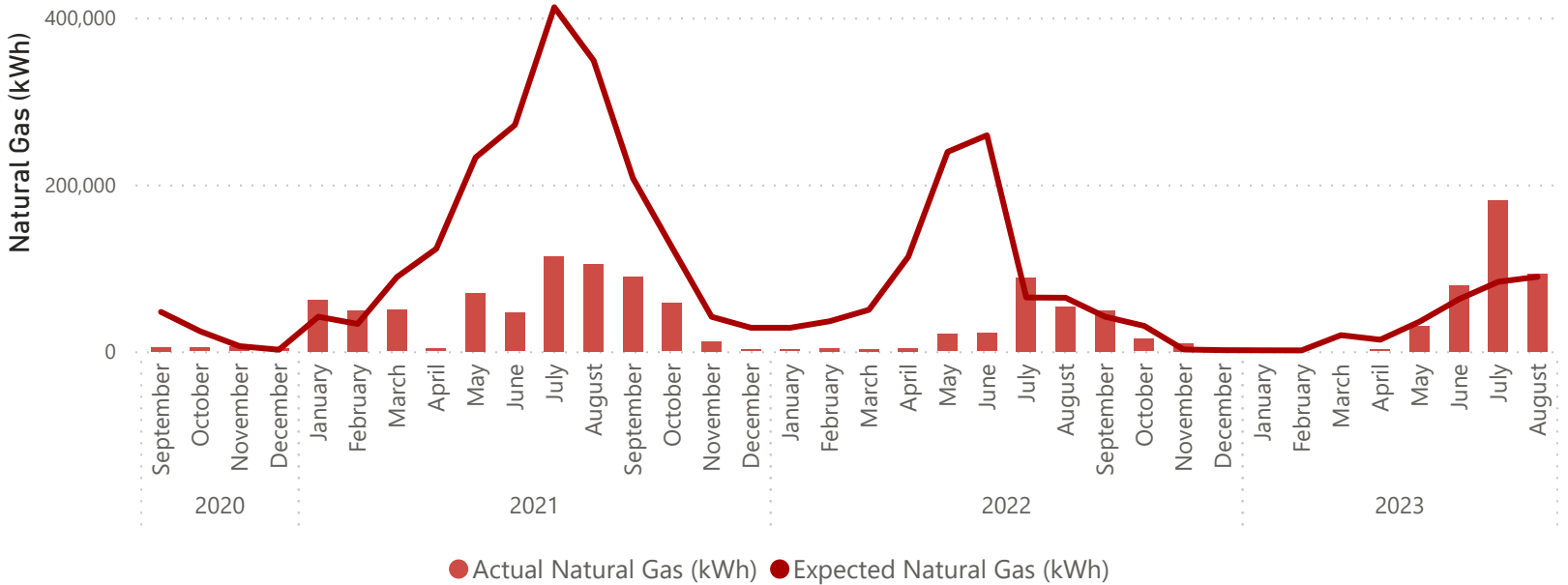


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

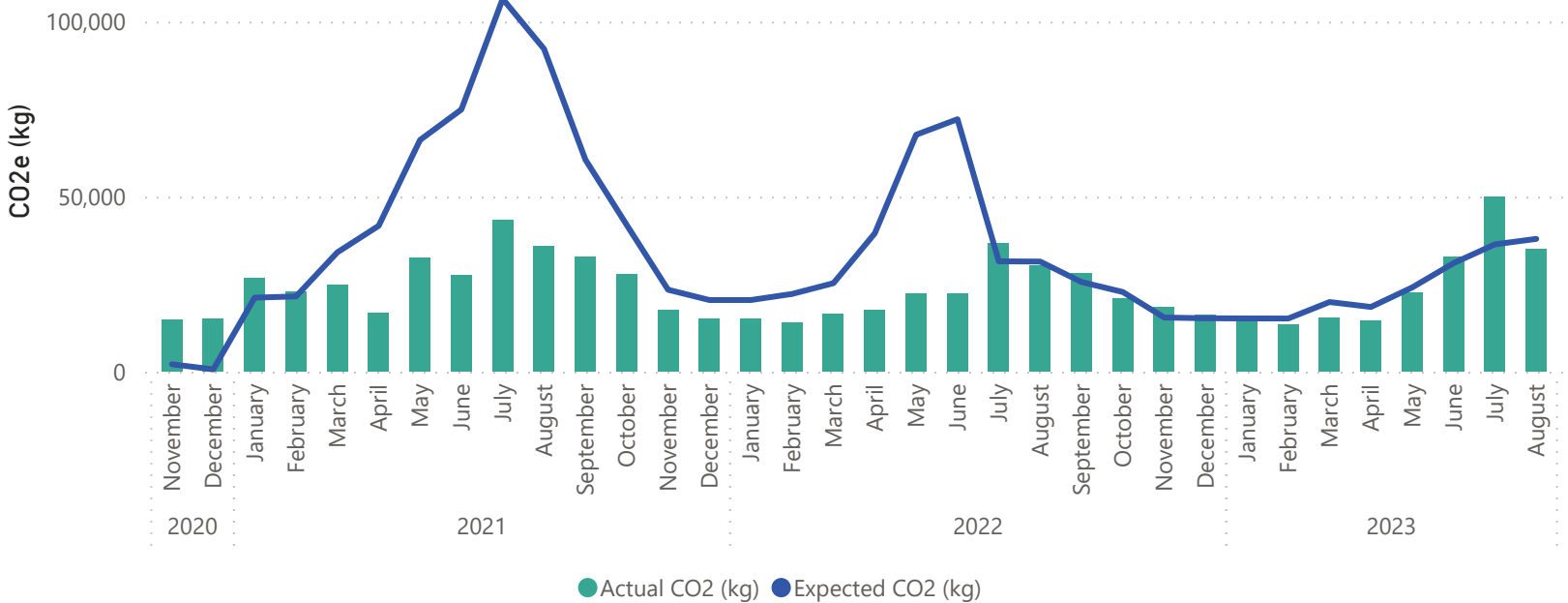
Whakatane District Council

Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

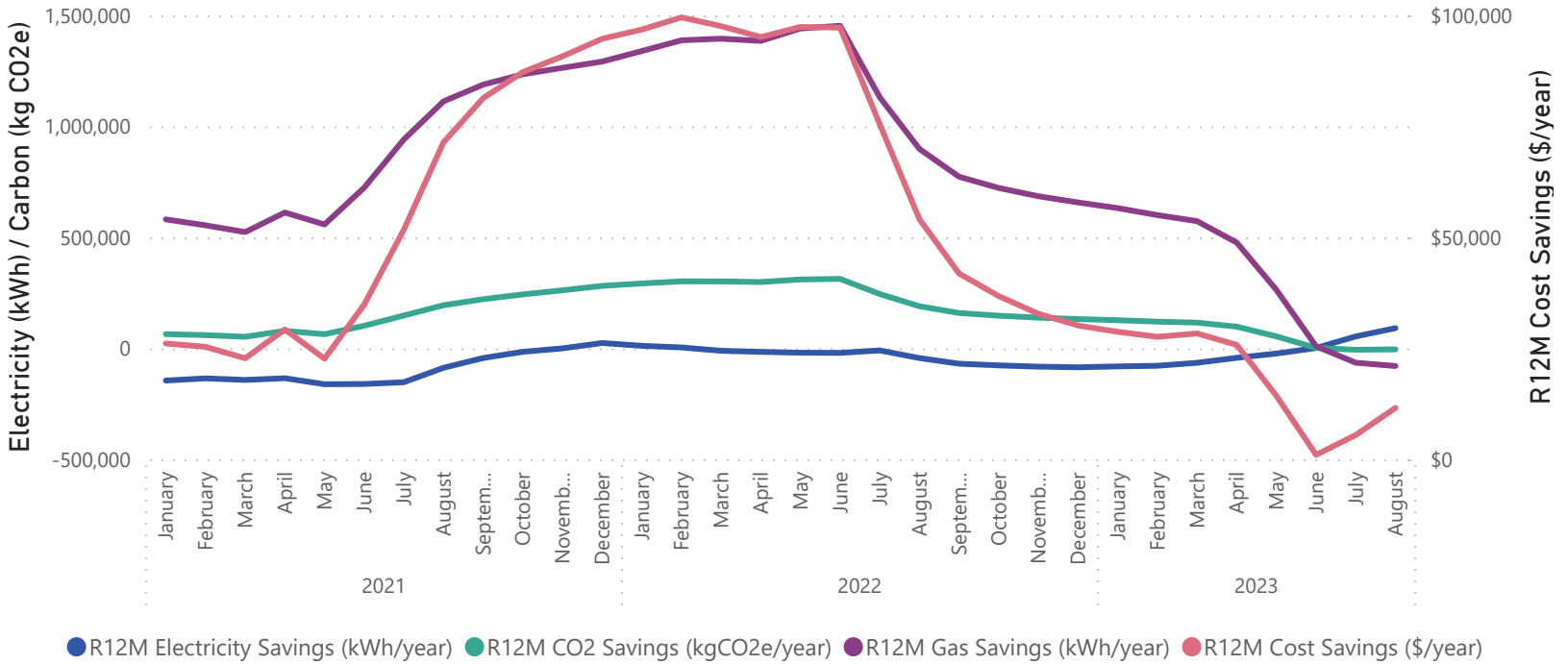


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

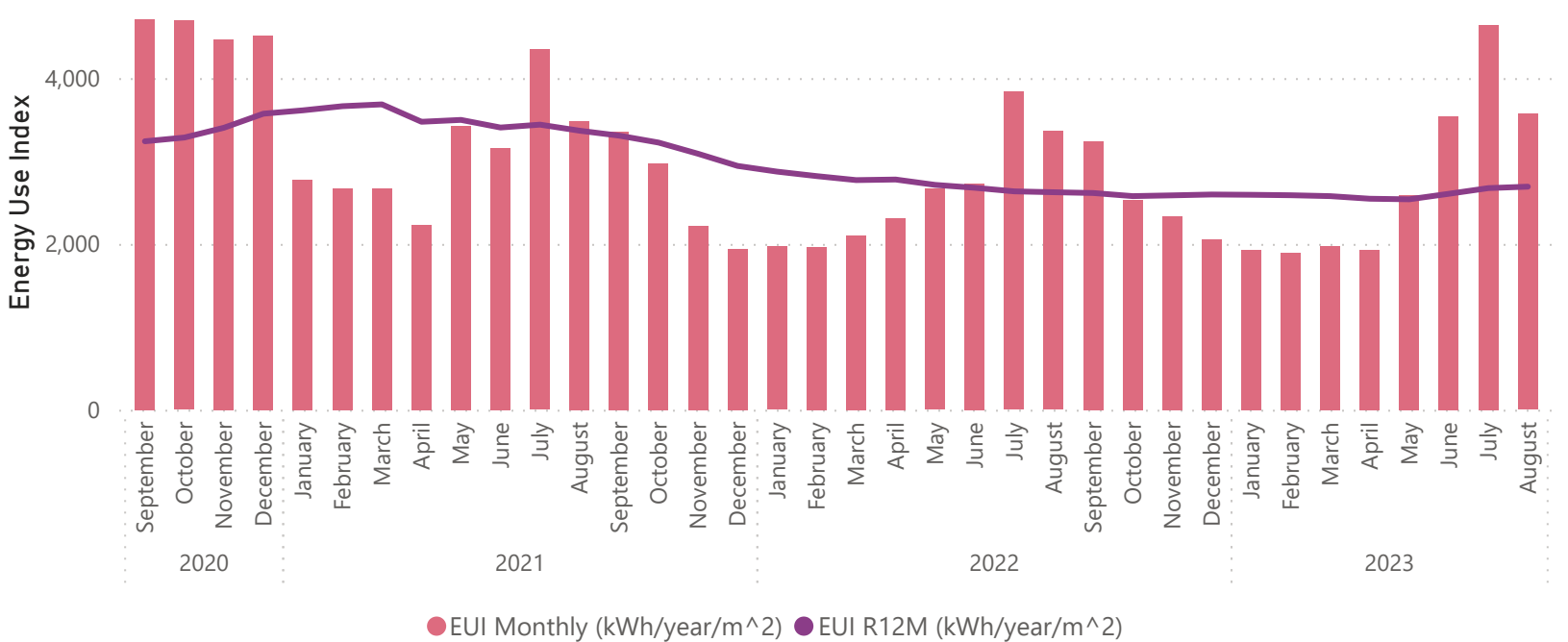
Whakatane District Council

Aquatic Centre

Aquatic Centre Rolling 12 Month Savings



Aquatic Centre Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

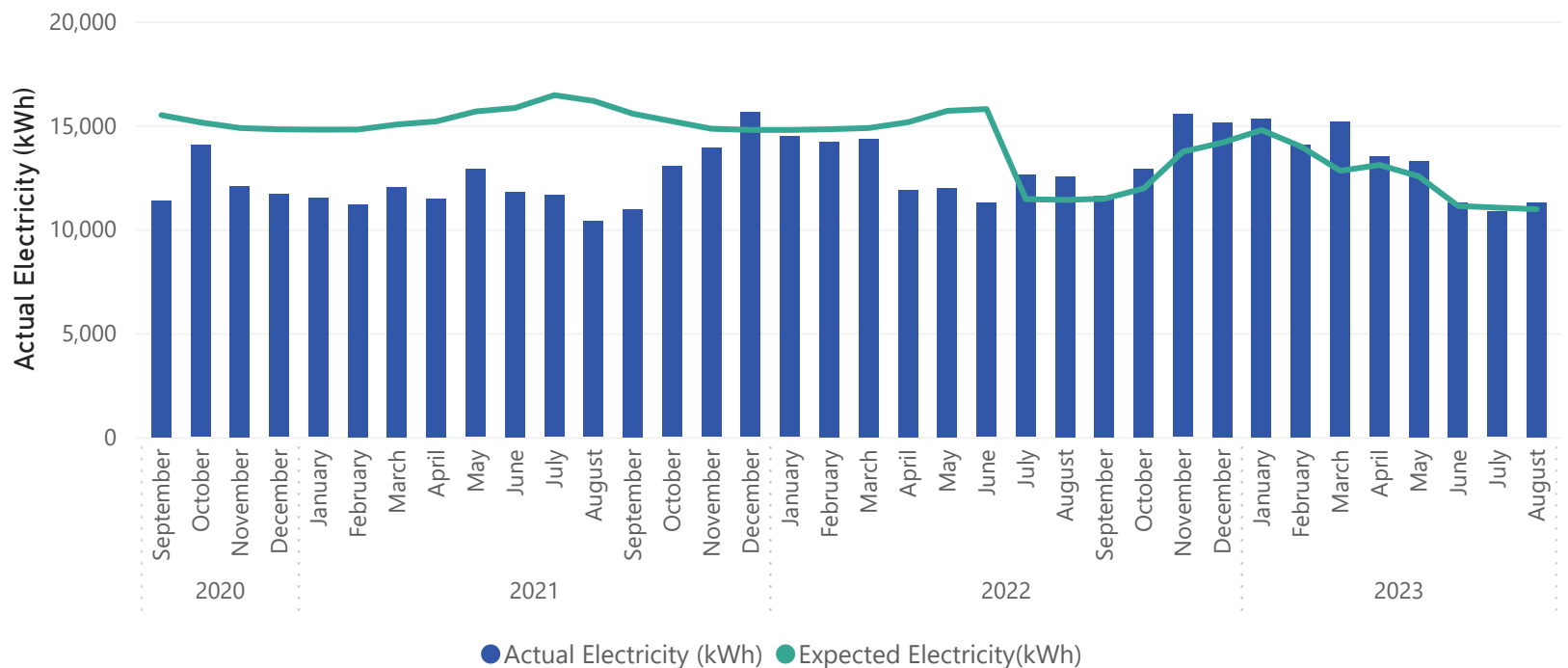
Te Koputu Library

<p>-\$450 Monthly Energy Cost Savings</p>	<p>-328 Elec. Savings (kWh/mo)</p>	<p>-3% Elec. Savings (%)</p>	<p>-8,303 R12M Electricity Savings (kWh/yr)</p>	<p>-1,044 CO2e Savings (kg/mo)</p>
<p>-\$2,797 R12M Energy Cost Savings</p>	<p>-4,835 Gas. Savings (kWh/mo)</p>	<p>-51% Gas. Savings (%)</p>	<p>-16,435 R12M Gas Savings (kWh/yr)</p>	<p>-4,490 R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was slightly more than expected for the month, natural gas use was significantly more than expected. Natural gas use has increased in August and is higher above baseline compared to the past 3 months.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

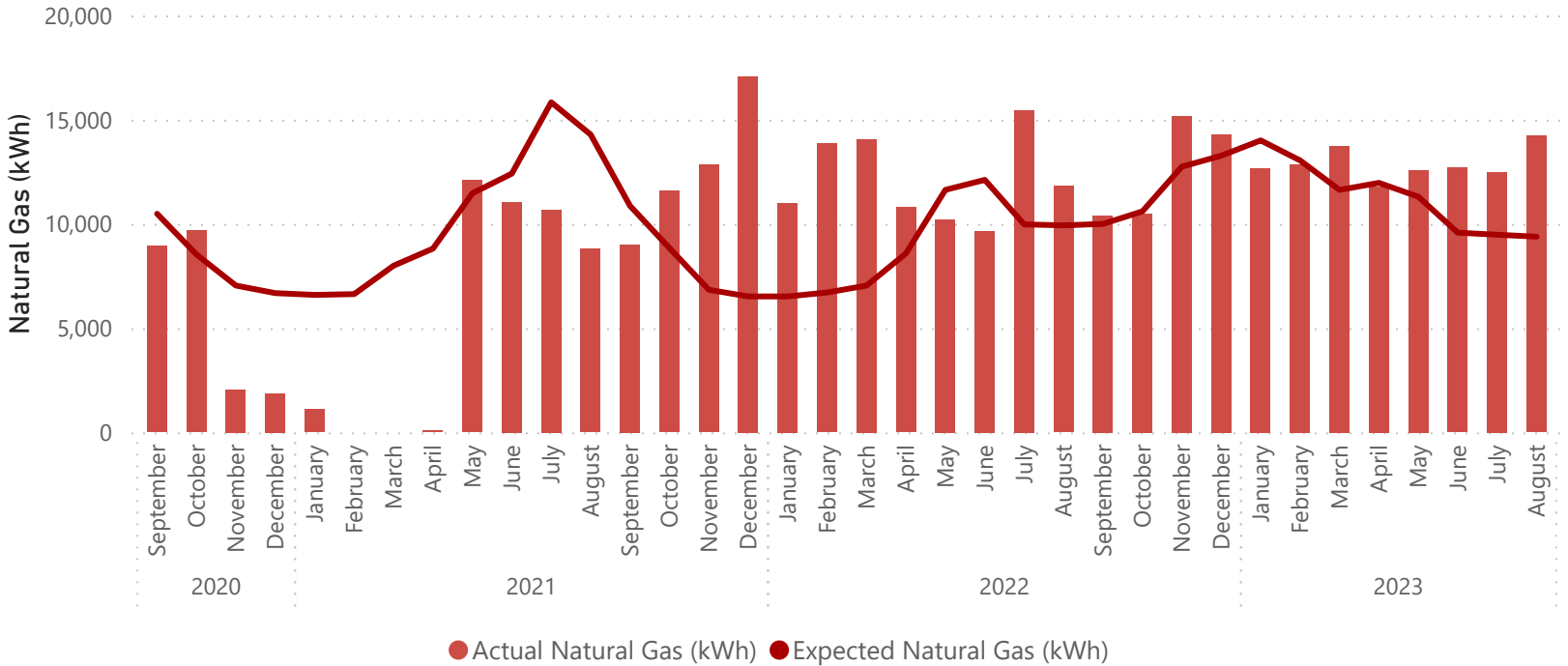


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

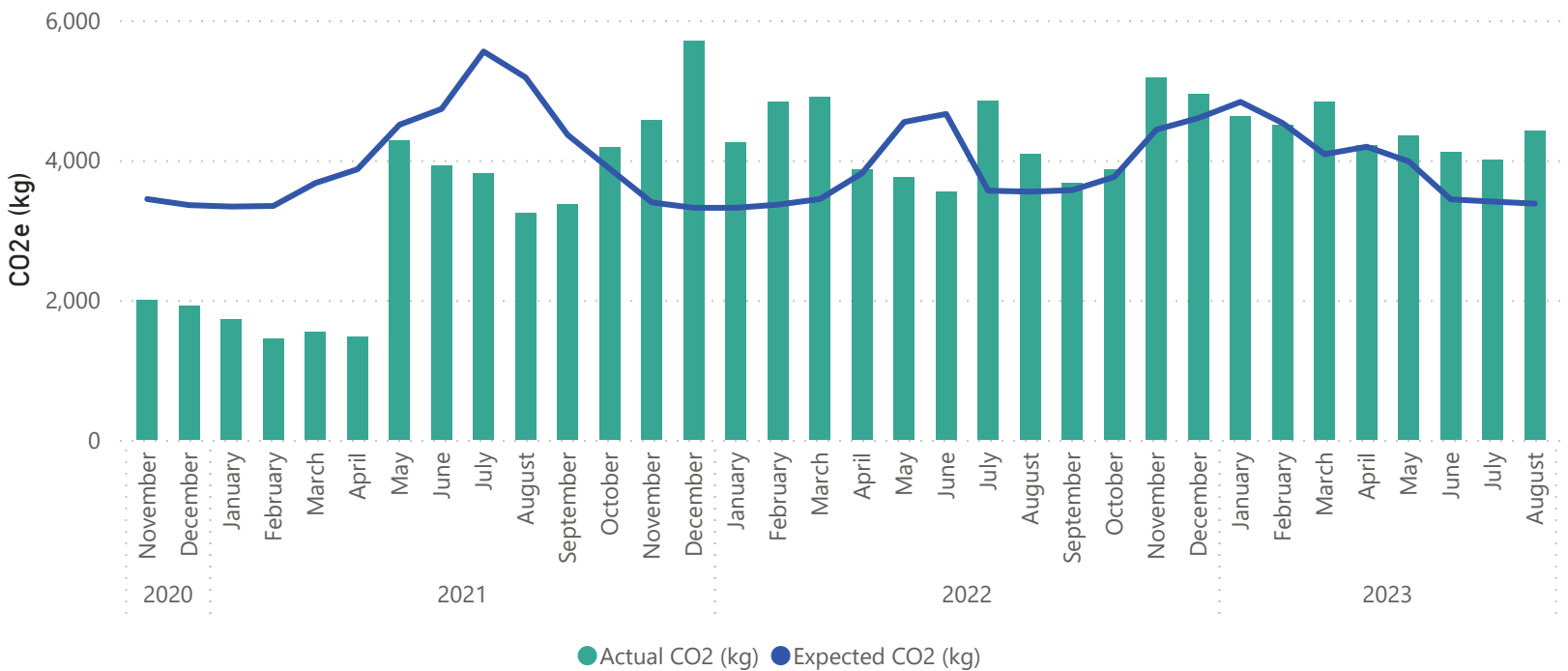
Whakatane District Council

Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



Te Koputu Library Carbon Emissions Compared to Baseline (kg CO2e)

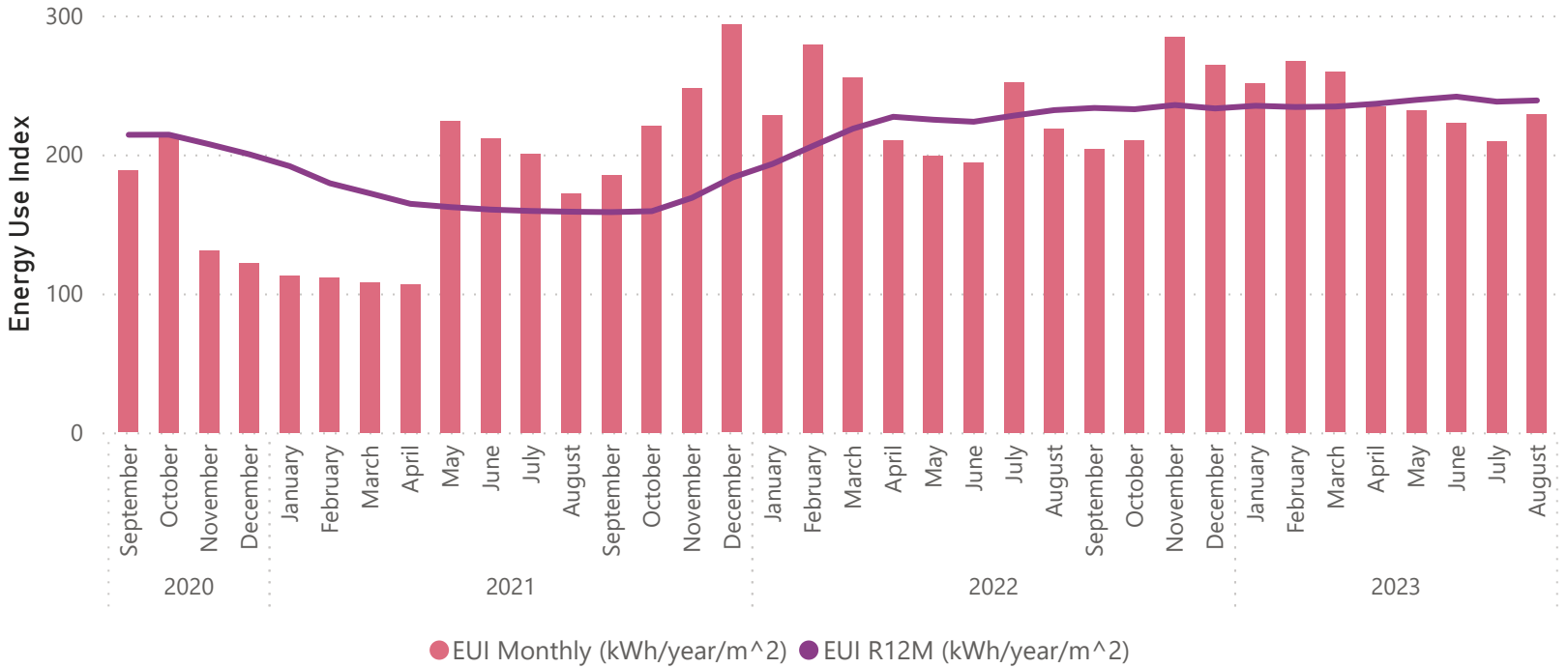


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

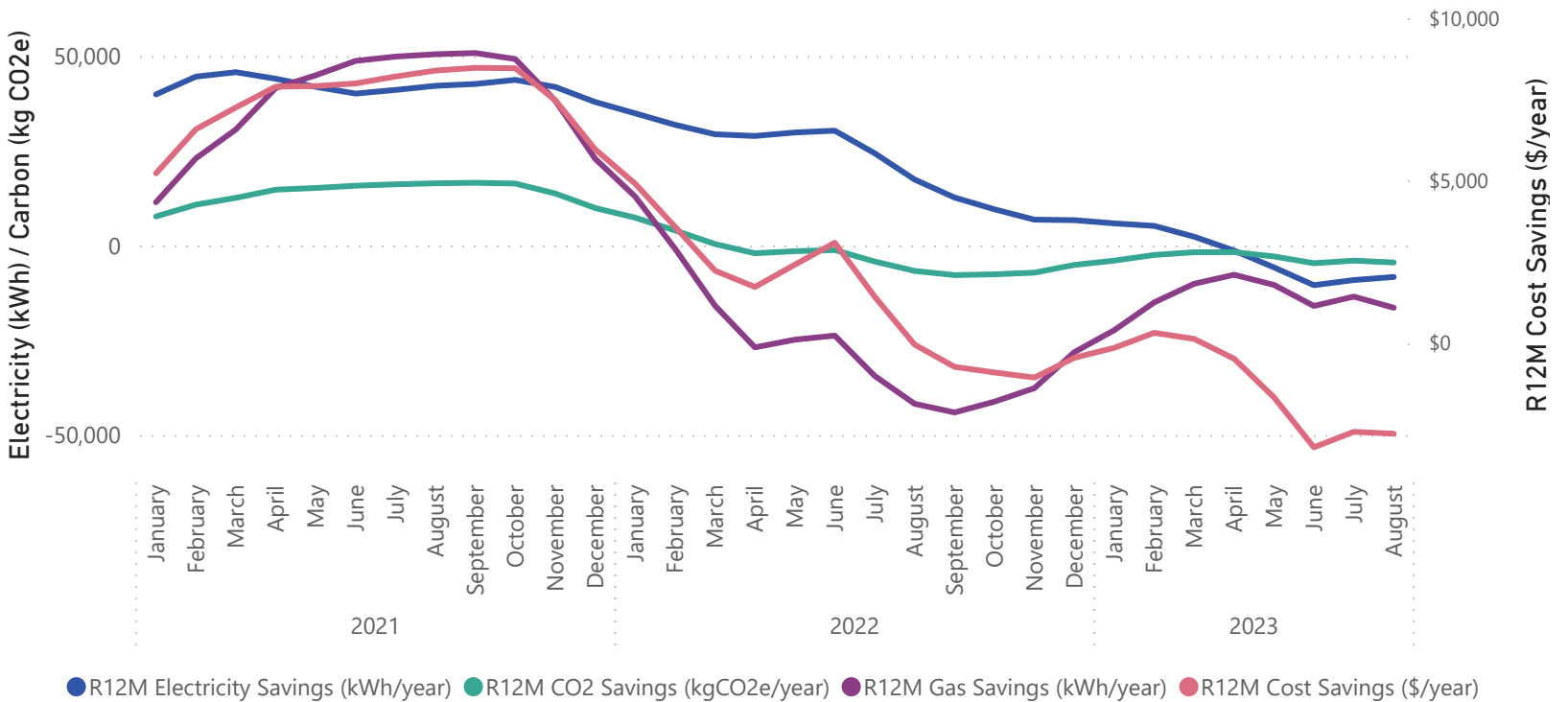
Whakatane District Council

Te Koputu Library

Te Koputu Library Energy Use Index by Month Compared to Rolling 12-Month Values



Te Koputu Library Rolling 12 Month Savings



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

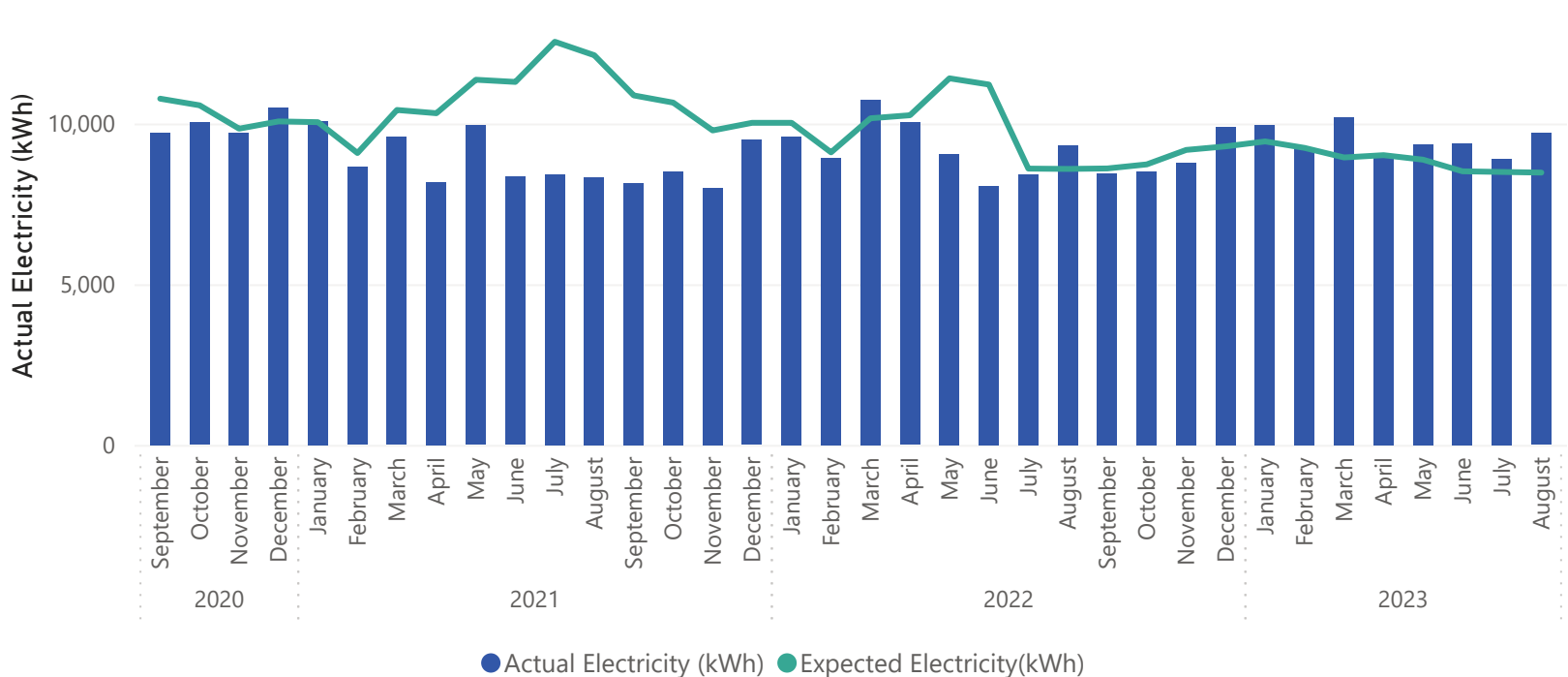
Museum and Research Centre

<p>-\$296</p> <p>Monthly Energy Cost Savings</p>	<p>-1,228</p> <p>Elec. Savings (kWh/mo)</p>	<p>-14%</p> <p>Elec. Savings (%)</p>	<p>-4,483</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-314</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$1,235</p> <p>R12M Energy Cost Savings</p>	<p>-738</p> <p>Gas. Savings (kWh/mo)</p>	<p>-23%</p> <p>Gas. Savings (%)</p>	<p>-4,759</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-1,572</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Natural gas use was 23% higher than expected and electricity use was 14% higher than expected. Natural gas use has increased in recent months; August 2023 used 42% more natural gas compared to August 2022. Rolling 12 month energy use has been trending upwards in recent months.

Museum Research Centre Electricity Use Compared to Baseline (kWh)

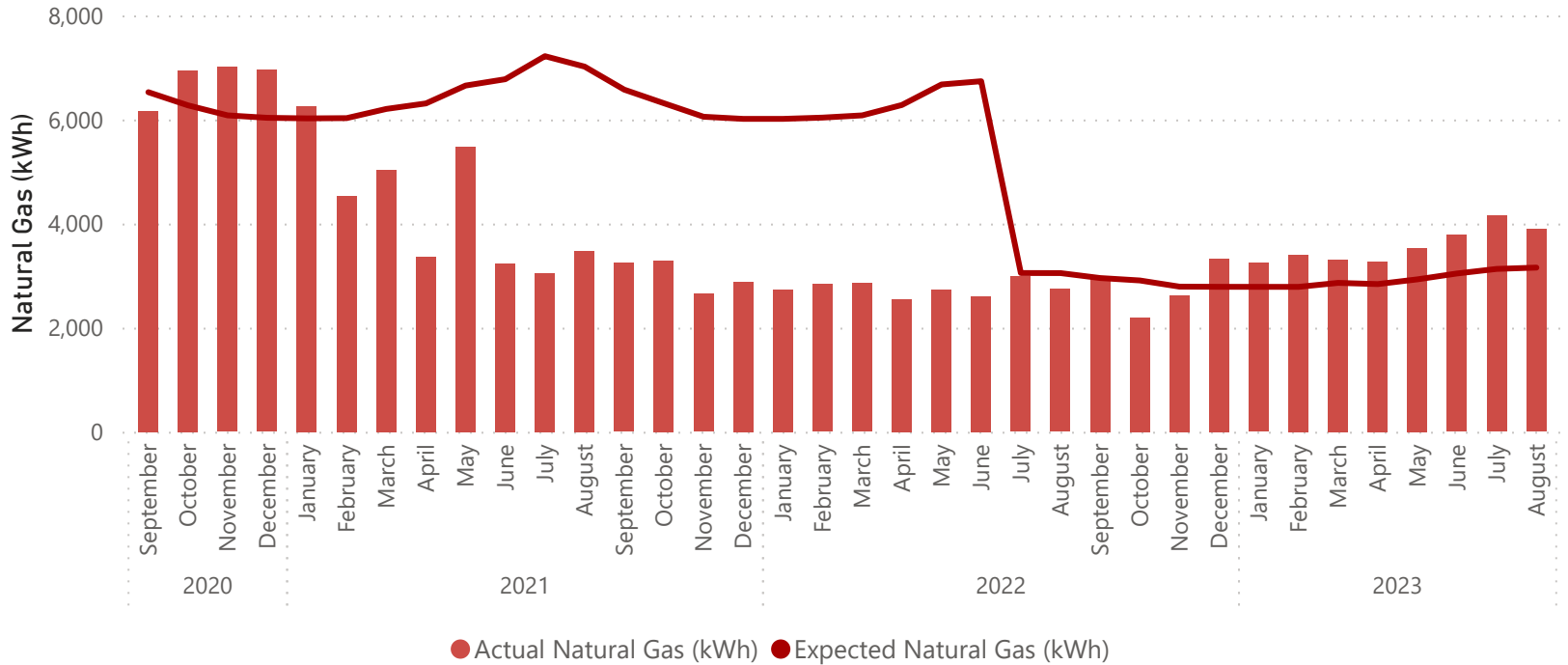


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

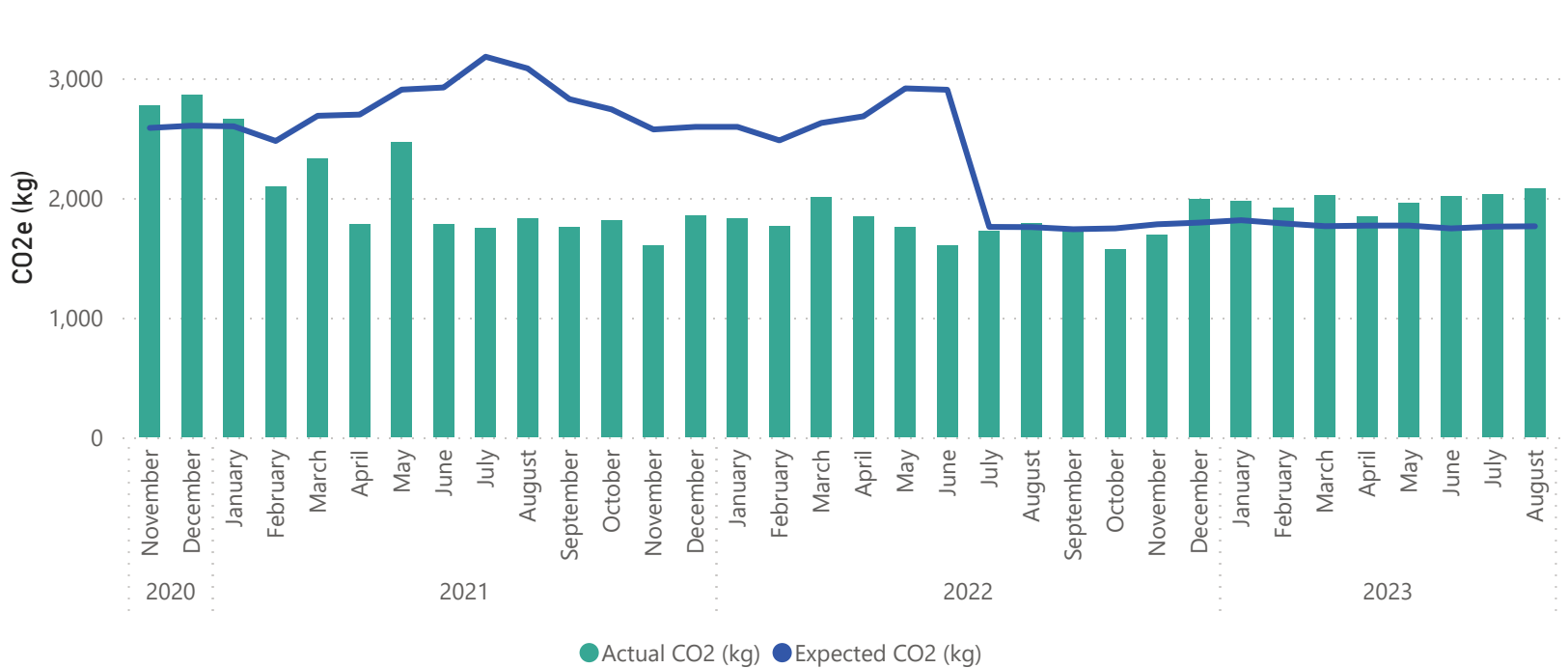
Whakatane District Council

Museum and Research Centre

Museum Research Centre Natural Gas Compared to Baseline (kWh)



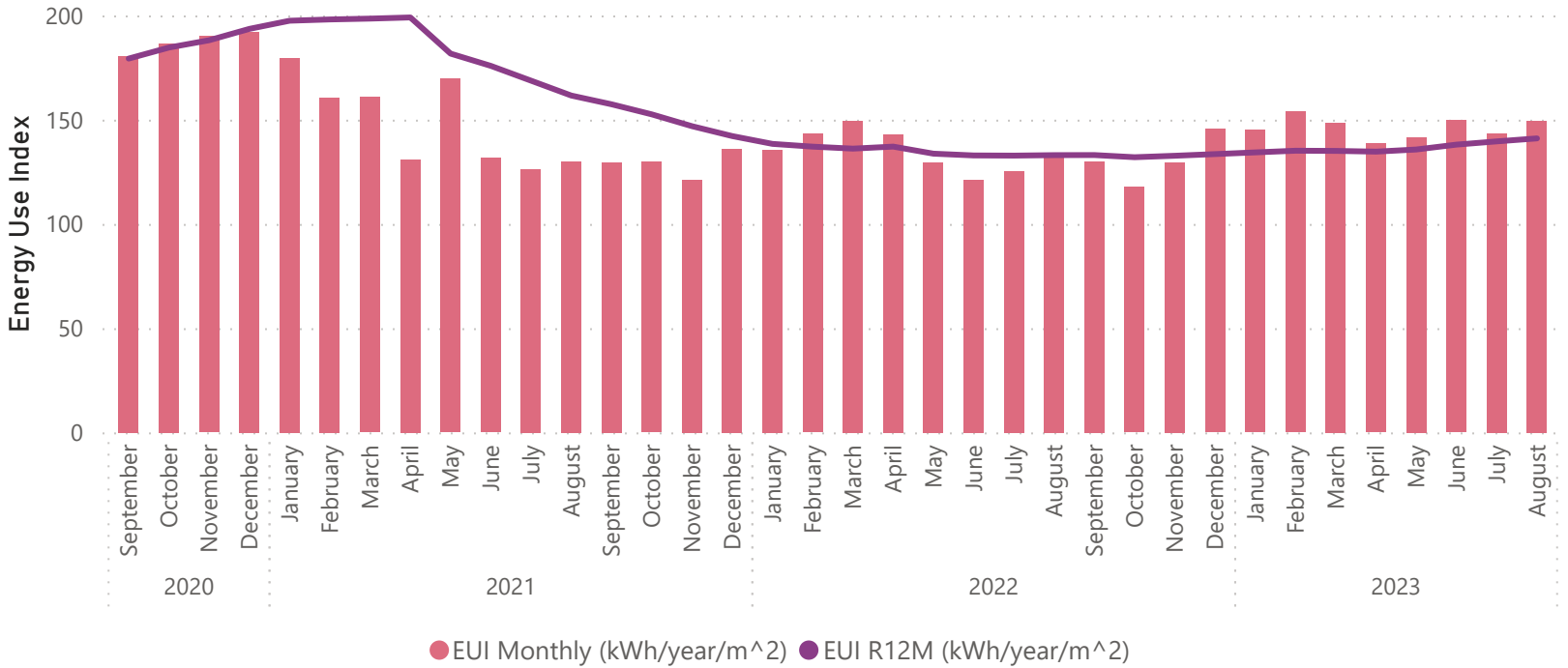
Museum Research Centre Carbon Emissions Compared to Baseline (kg CO2e)



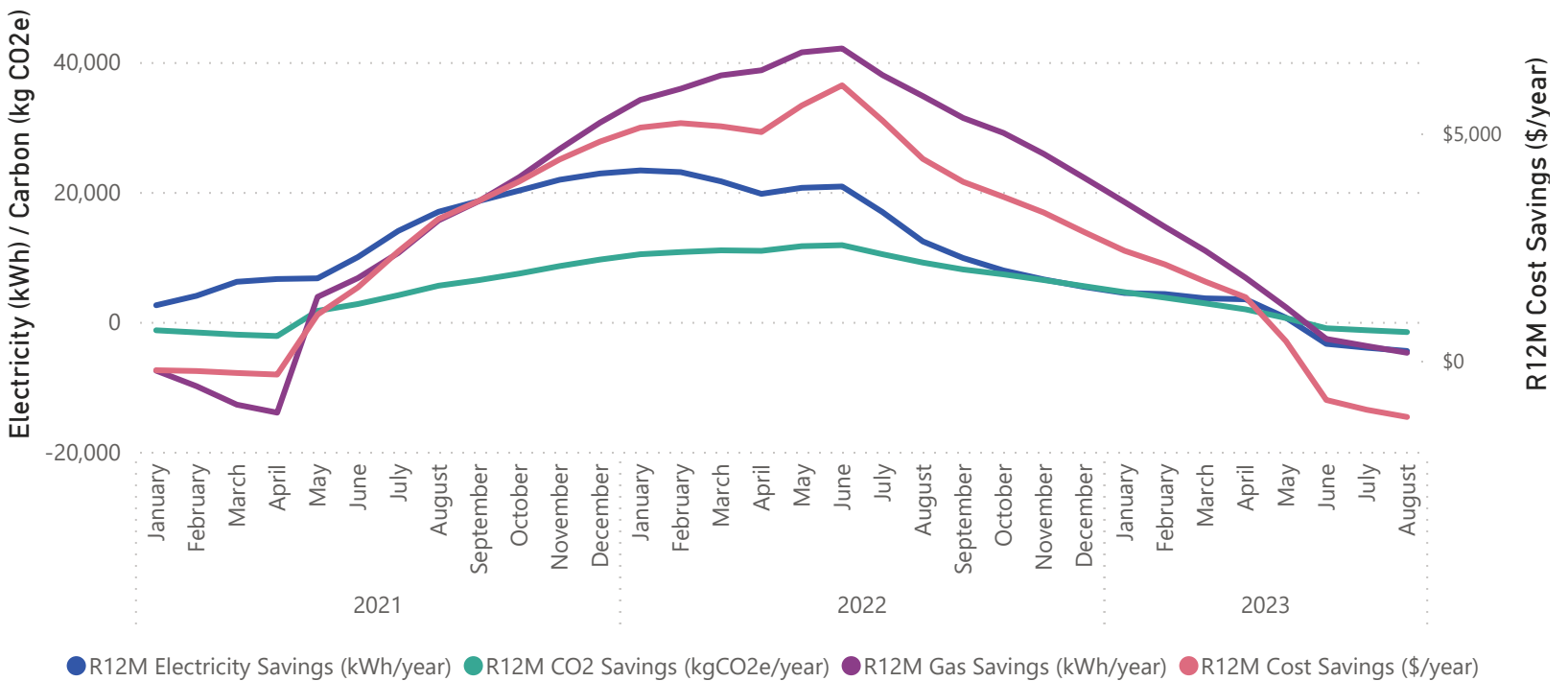
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Museum and Research Centre

Museum Research Centre Energy Use Index by Month Compared to Rolling 12-Month Values



Museum Research Centre Rolling 12 Month Savings



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

War Memorial Hall

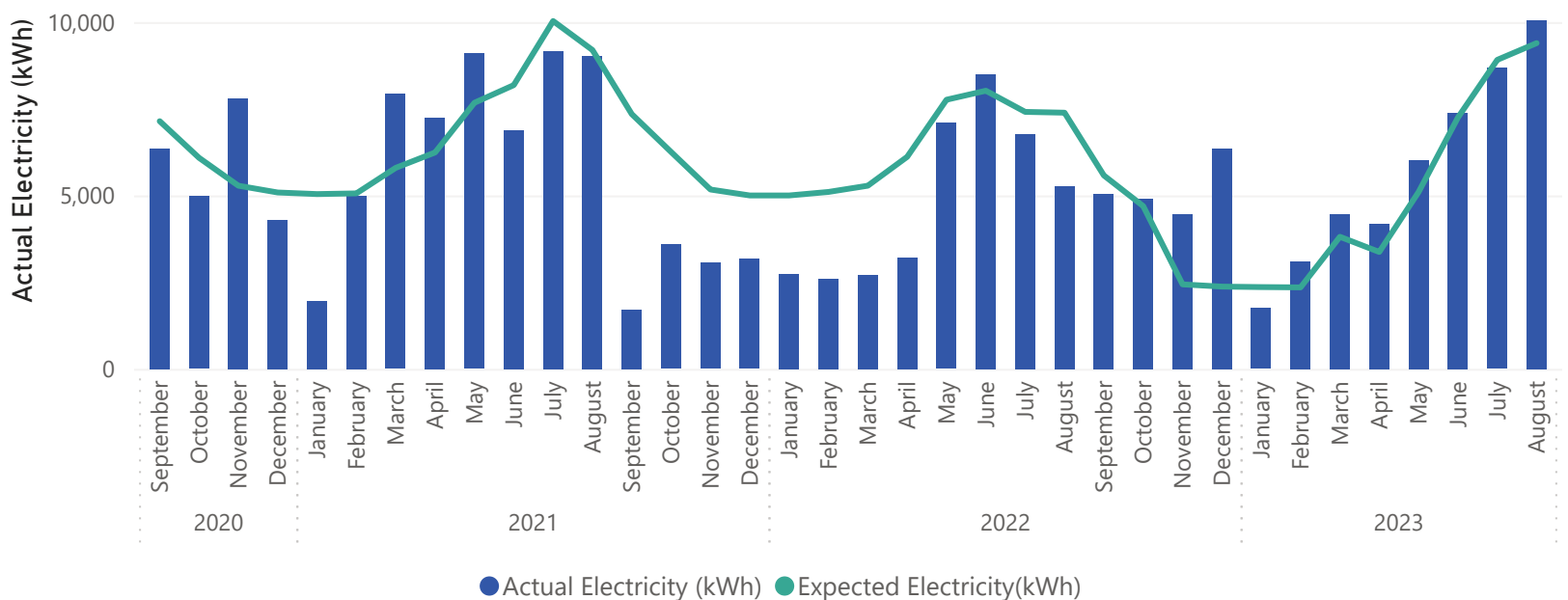
<p>-\$295 Monthly Energy Cost Savings</p>	<p>-651 Elec. Savings (kWh/mo)</p>	<p>-7% Elec. Savings (%)</p>	<p>-8,749 R12M Electricity Savings (kWh/yr)</p>	<p>-523 CO2e Savings (kg/mo)</p>
<p>-\$1,396 R12M Energy Cost Savings</p>	<p>-2,116 Gas. Savings (kWh/mo)</p>	<p>-48% Gas. Savings (%)</p>	<p>1,939 R12M Gas Savings (kWh/yr)</p>	<p>-745 R12M CO2e Savings (kg/yr)</p>

Comments:

The War Memorial Hall used 7% more electricity than expected. Nine of the past 12 months have used more electricity than expected.

The hall has used more natural gas than expected in August, the second month in a row where natural gas was significantly higher than expected. Previously less gas has been used than expected since October 2022, which was excellent.

War Memorial Hall Electricity Use Compared to Baseline (kWh)

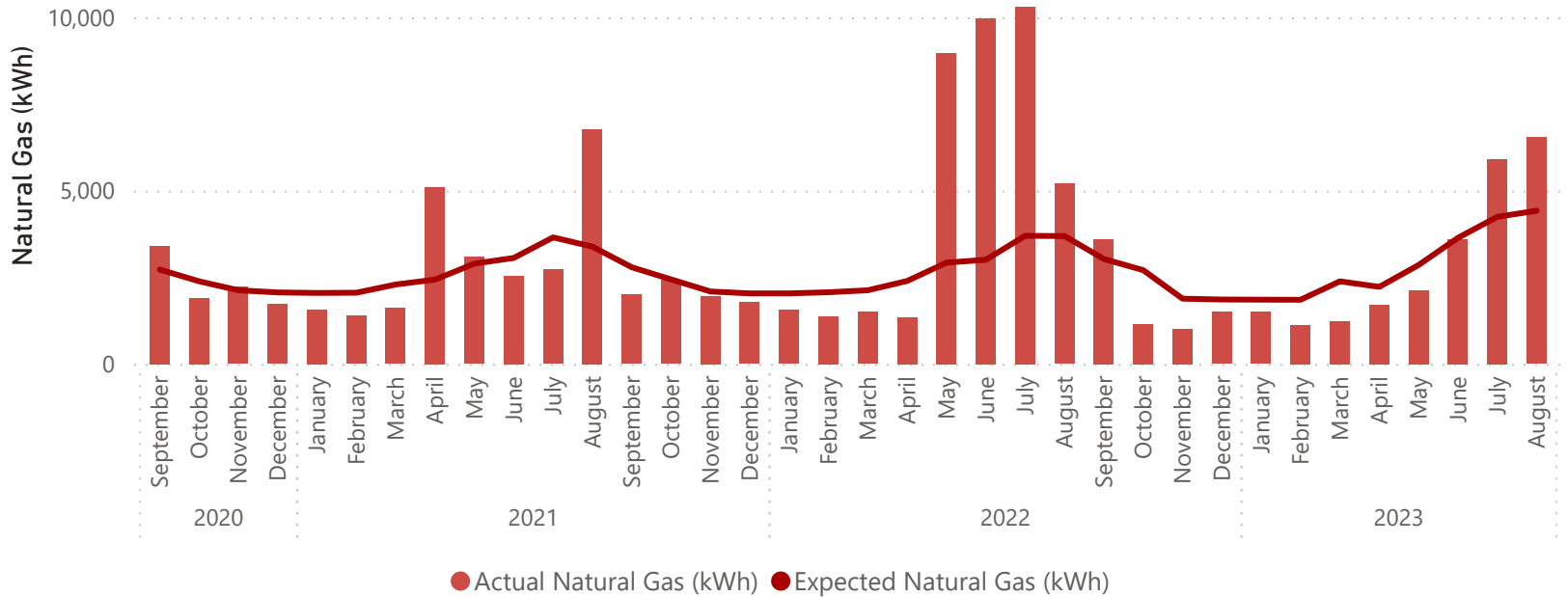


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

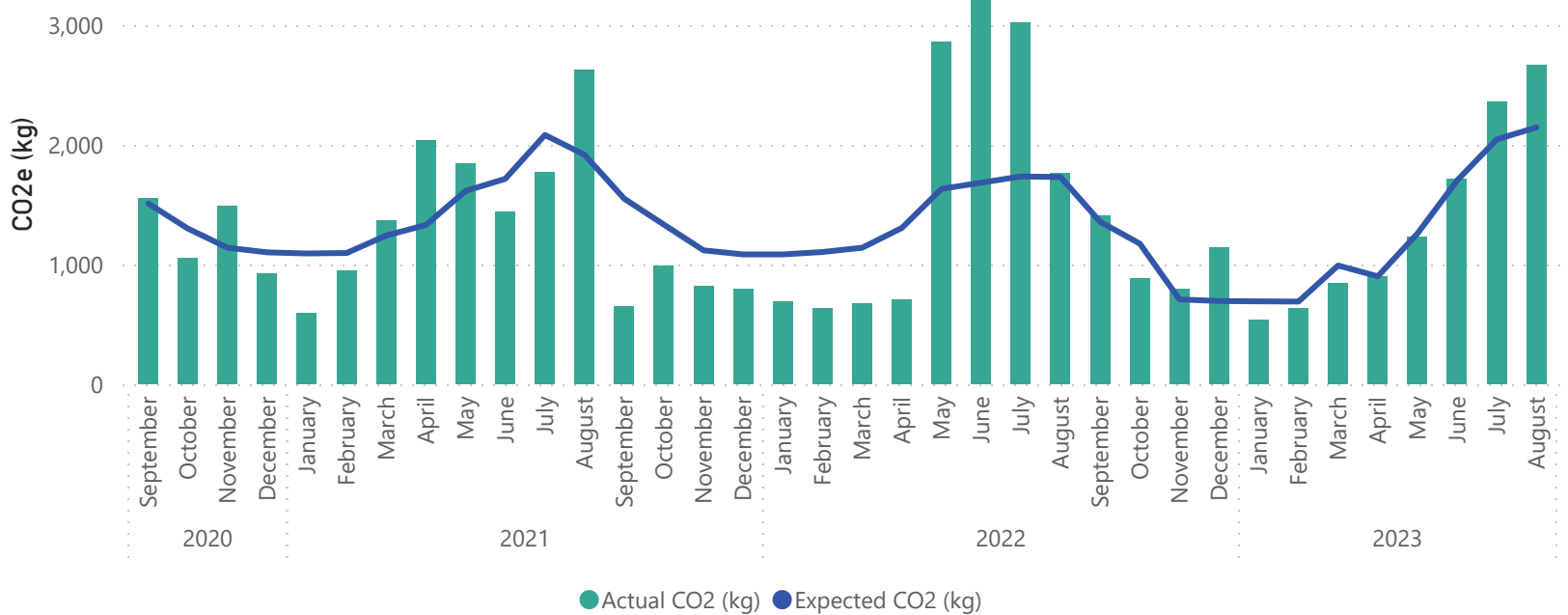
Whakatane District Council

War Memorial Hall

War Memorial Hall Natural Gas Compared to Baseline (kWh)



War Memorial Hall Carbon Emissions Compared to Baseline (kg CO2e)

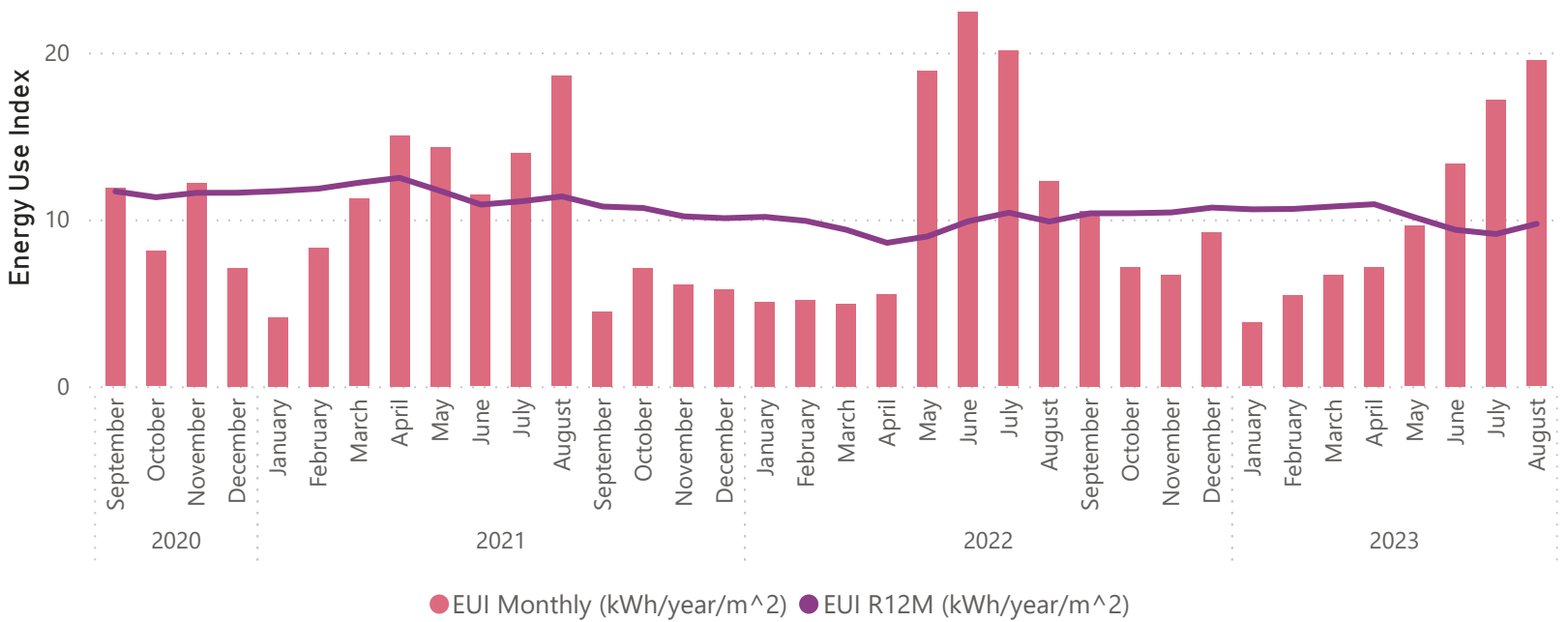


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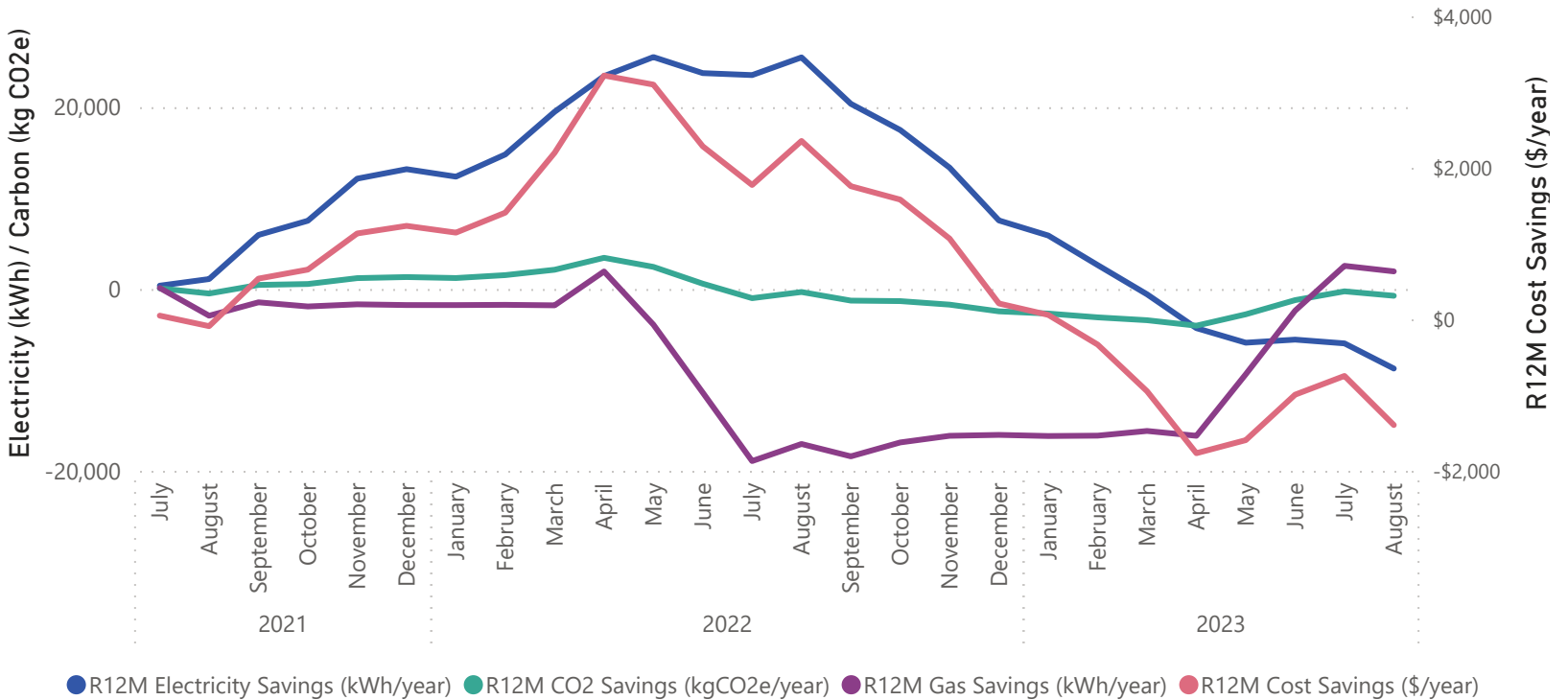
Whakatane District Council

War Memorial Hall

War Memorial Hall Energy Use Index by Month Compared to Rolling 12-Month Values



War Memorial Hall Rolling 12 Month Savings



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Whakatane District Council

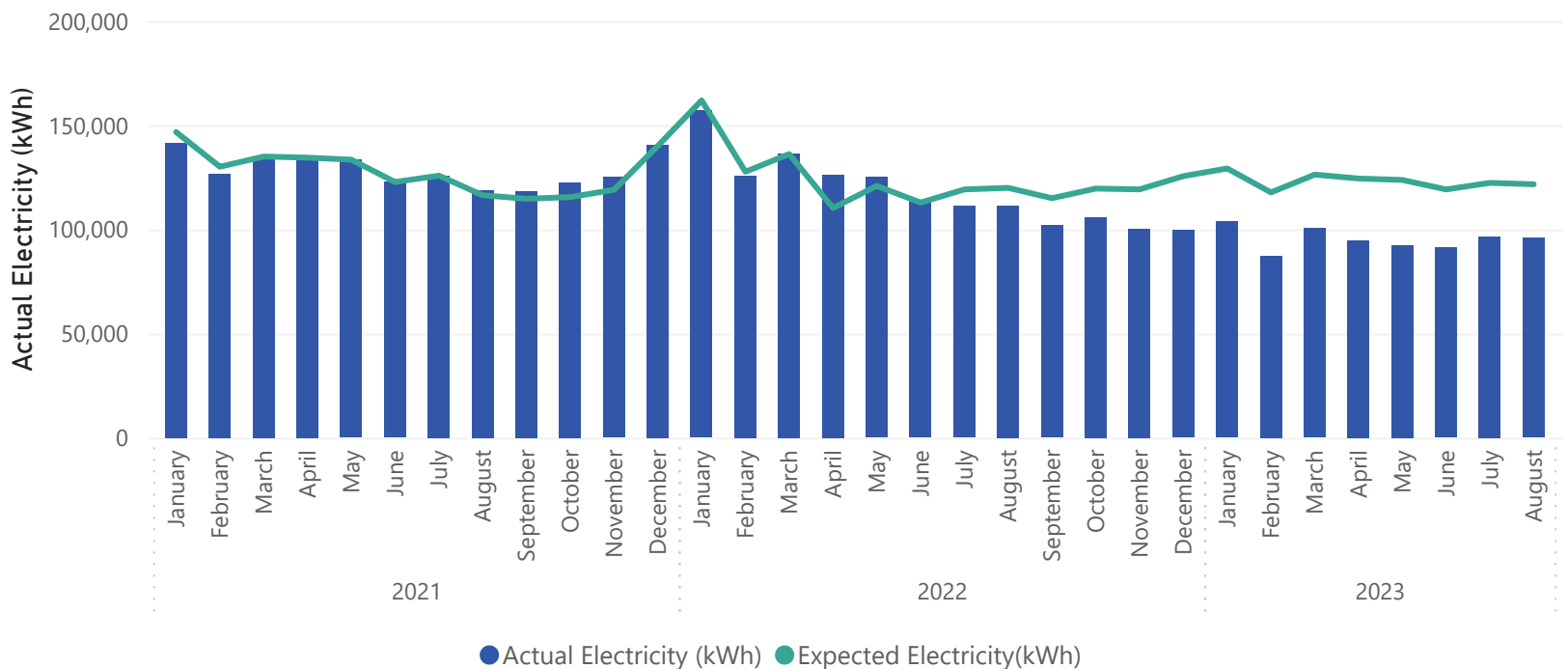
Water Treatment Plant

<p>\$4,826</p> <p>Monthly Energy Cost Savings</p>	<p>25,790</p> <p>Elec. Savings (kWh/mo)</p>	<p>21%</p> <p>Elec. Savings (%)</p>	<p>293,887</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>3,379</p> <p>CO2e Savings (kg/mo)</p>
<p>\$52,649</p> <p>R12M Energy Cost Savings</p>				<p>38,499</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Another month of savings has been achieved at the WTP in August 2023. Consistent savings between 15-25% have been observed since November 2022. Rolling 12 month savings have been increasing, with approximately \$52,650, 294,000 kWh, and 38,500 kgCO2e saved in the past 12 months, which is excellent.

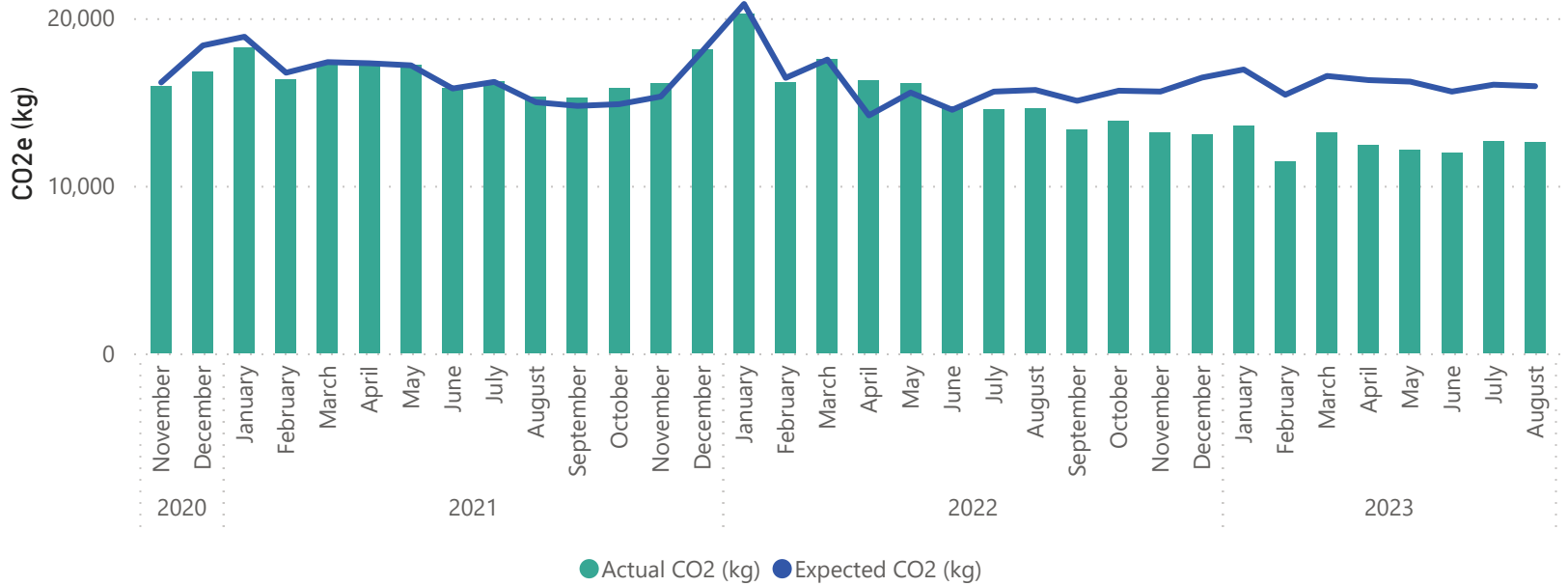
Water Treatment Plant Electricity Use Compared to Baseline (kWh)



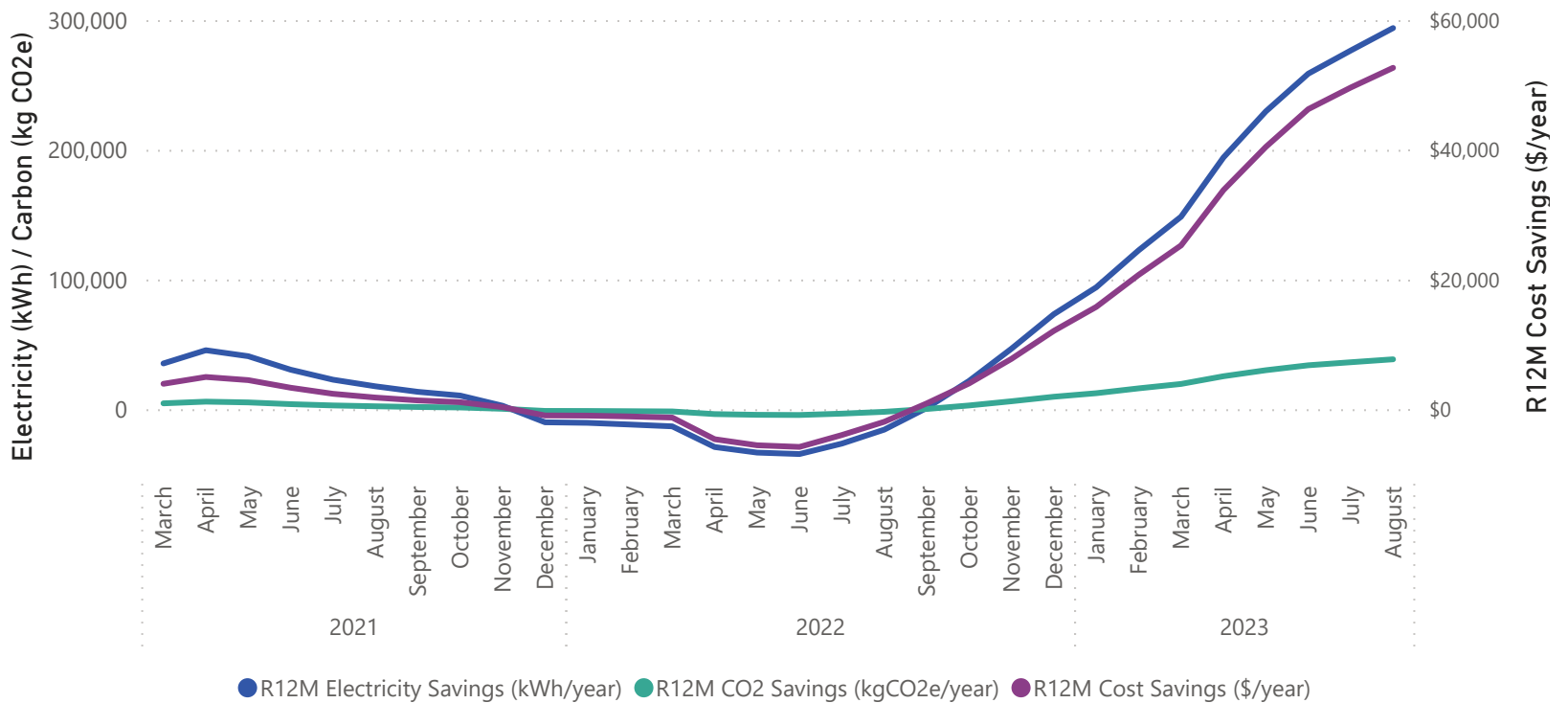
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Water Treatment Plant

Water Treatment Plant Carbon Emissions Compared to Baseline (kg CO2e)



Water Treatment Plant Rolling 12 Month Savings

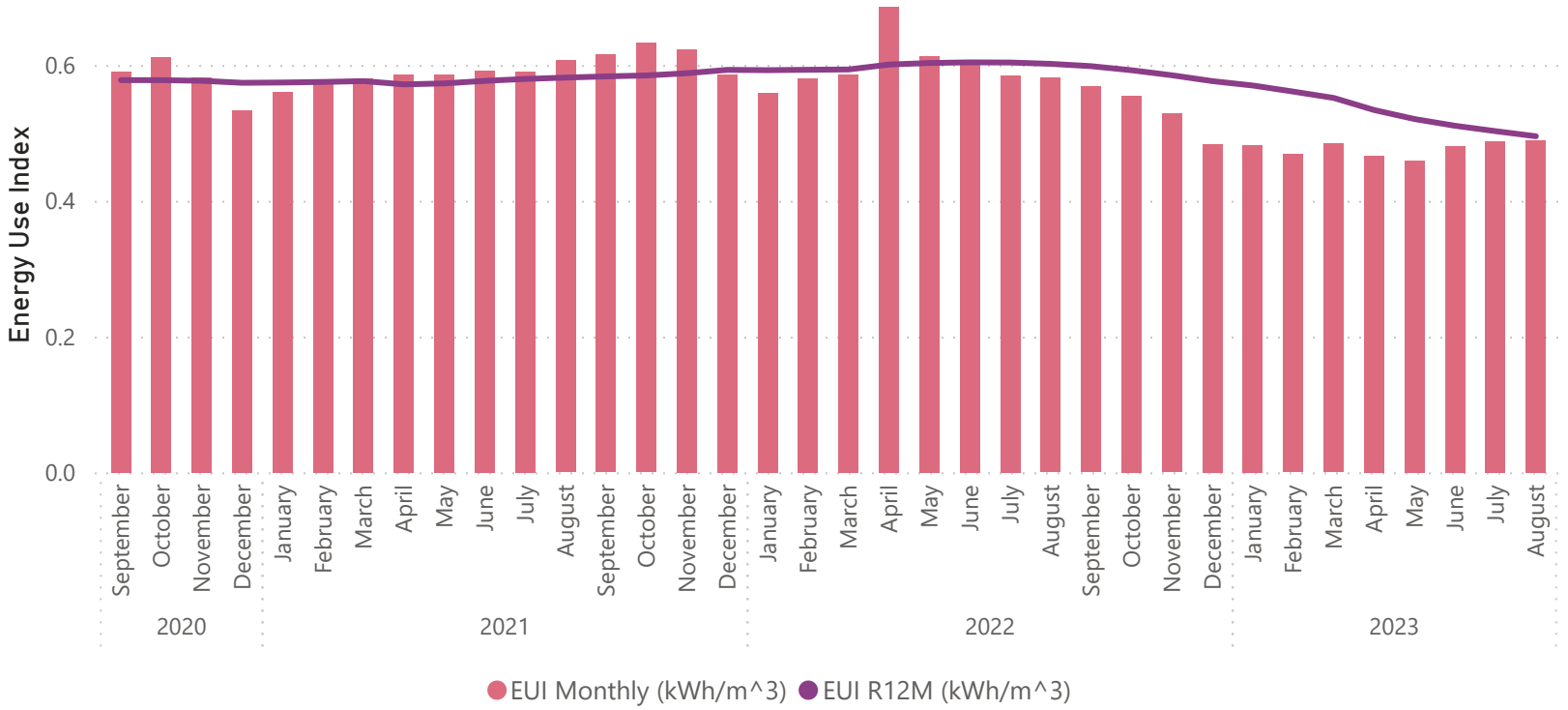


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Water Treatment Plant

Water Treatment Plant Energy Use Index by Month Compared to Rolling 12-Month Values



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Whakatane District Council

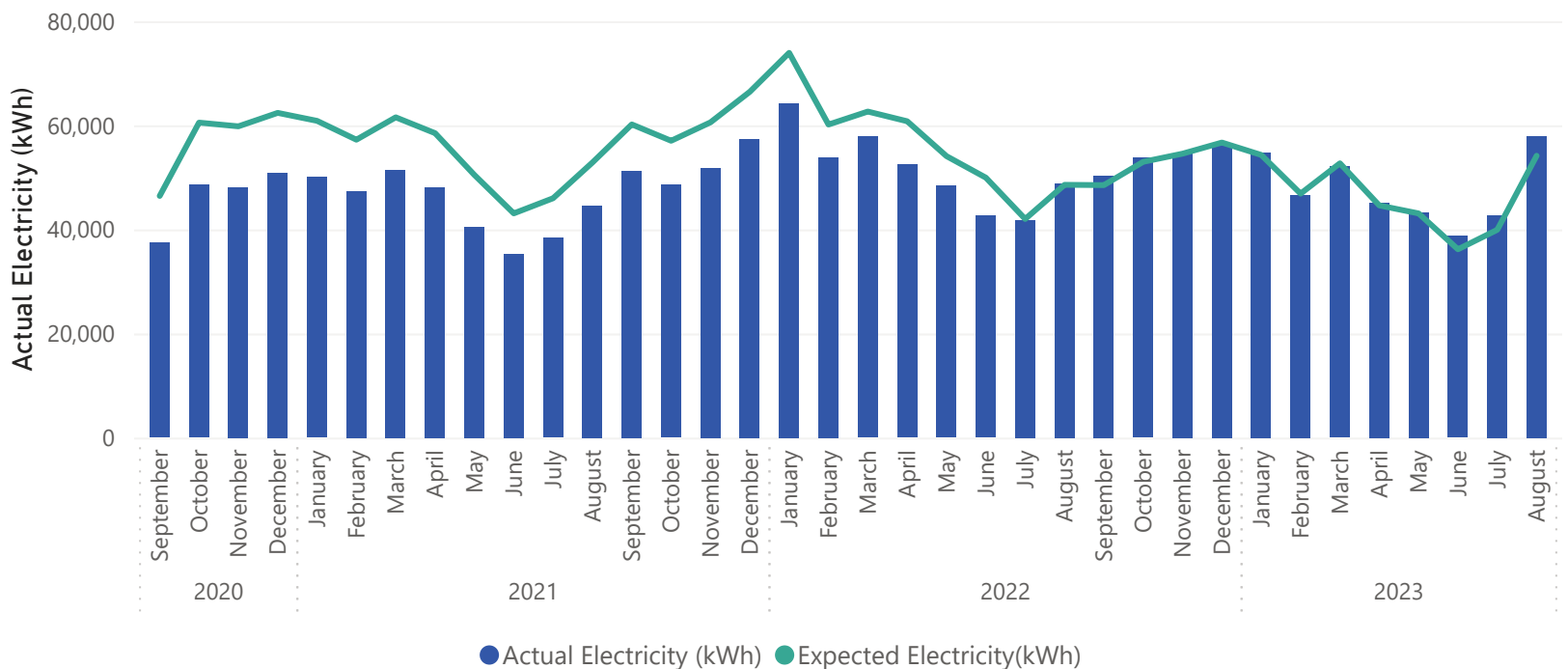
Braemar Road Pump Station

<p>-\$737 Monthly Energy Cost Savings</p>	<p>-3,804 Elec. Savings (kWh/mo)</p>	<p>-7% Elec. Savings (%)</p>	<p>-11,968 R12M Electricity Savings (kWh/yr)</p>	<p>-498 CO2e Savings (kg/mo)</p>
<p>-\$2,339 R12M Energy Cost Savings</p>				<p>-1,568 R12M CO2e Savings (kg/yr)</p>

Comments:

Work has been completed at Braemar Rd which added filters and new low lift pumps. Water data has been unreliable, water production is estimated for July and August based on recent months' electricity use. New tags will be added to SCADA in future which will capture water metering. When data becomes available, estimated months will be updated.

Braemar Rd Pumps Electricity Use Compared to Baseline (kWh)

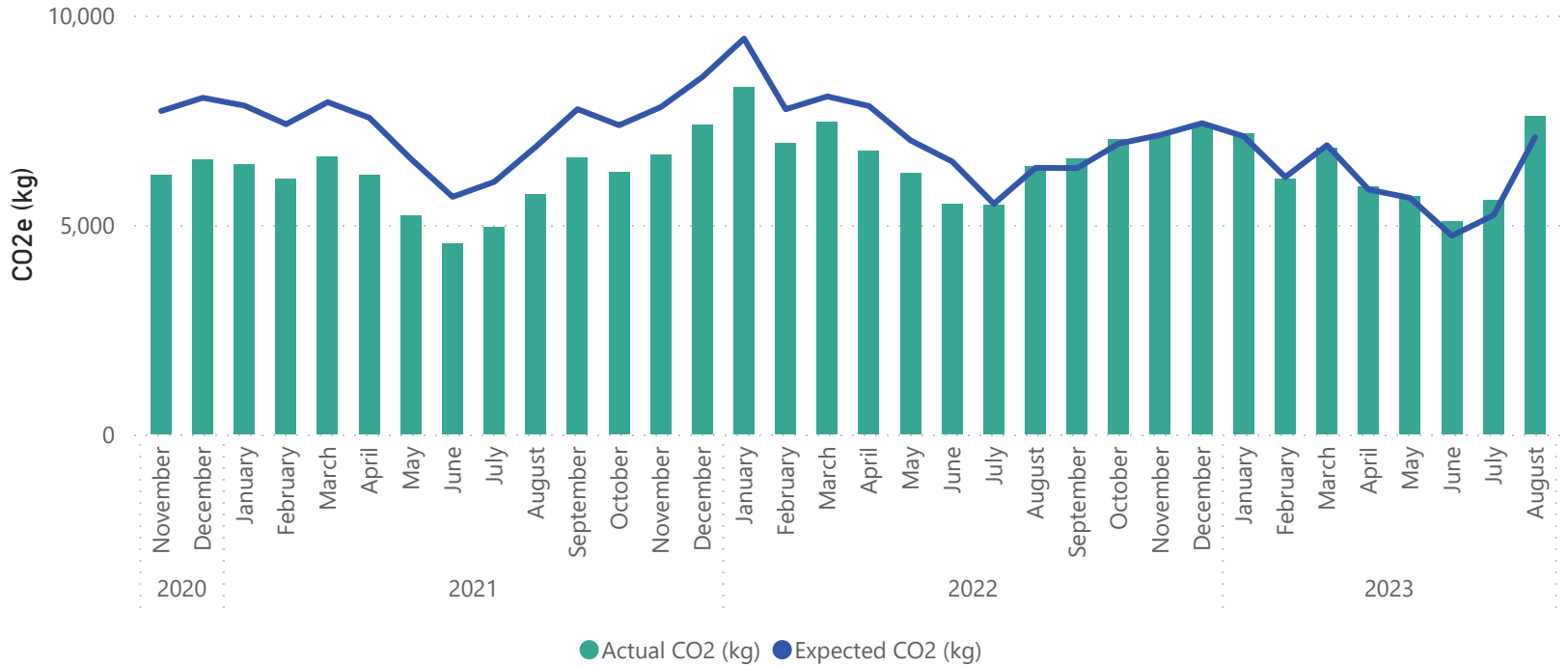


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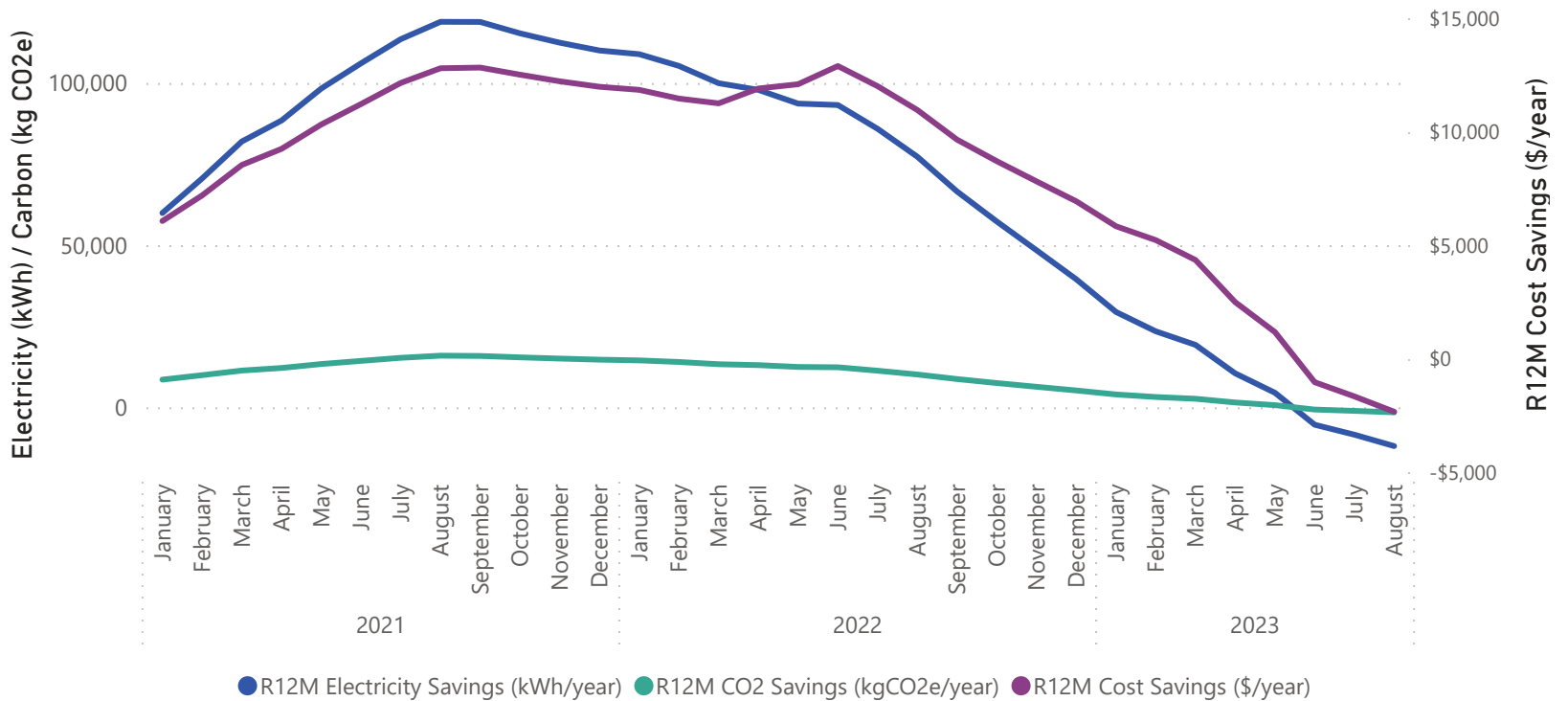
Whakatane District Council

Braemar Road Pump Station

Braemar Rd Pumps Carbon Emissions Compared to Baseline (kg CO2e)



Braemar Rd Pumps Rolling 12 Month Savings

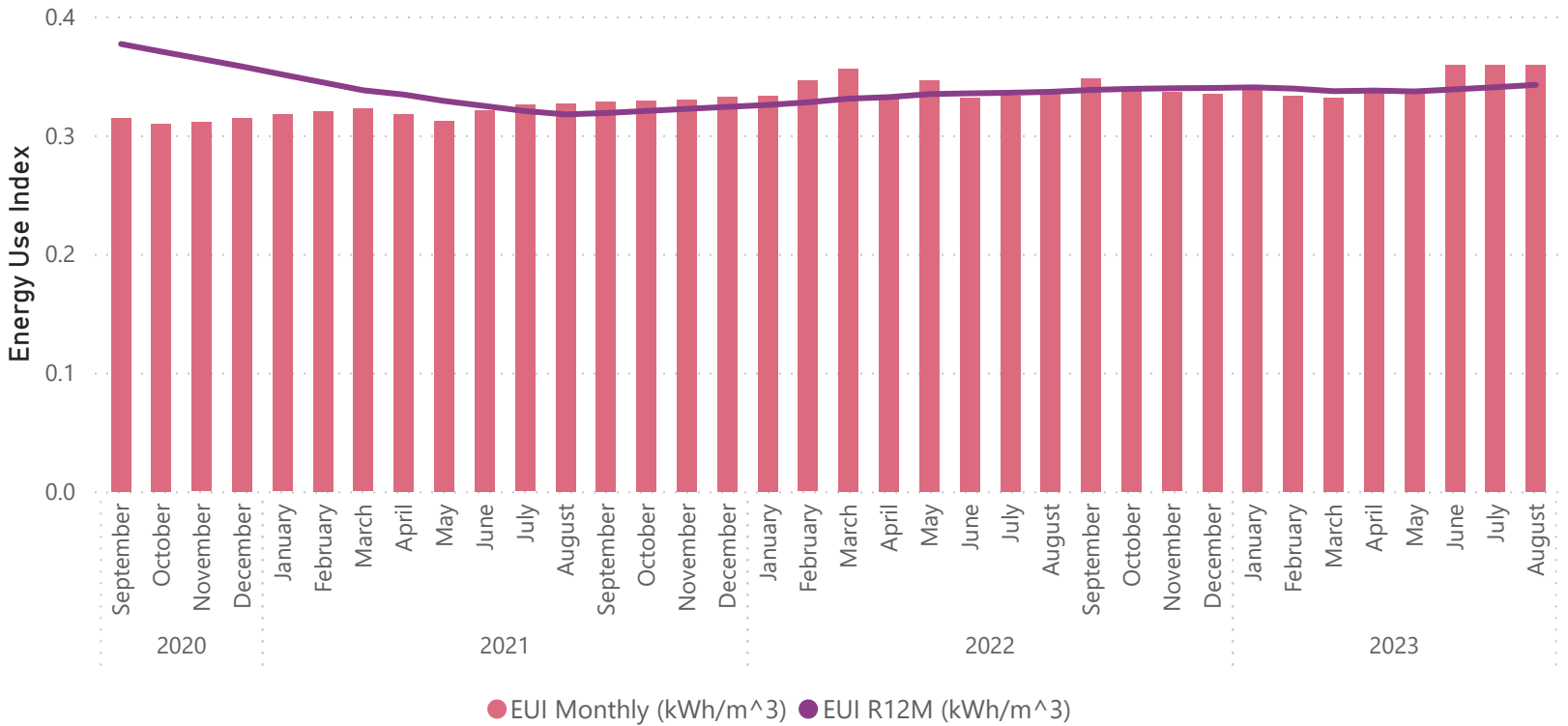


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Braemar Road Pump Station

Braemar Rd Pumps Energy Use Index by Month Compared to Rolling 12-Month Values



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Whakatane District Council

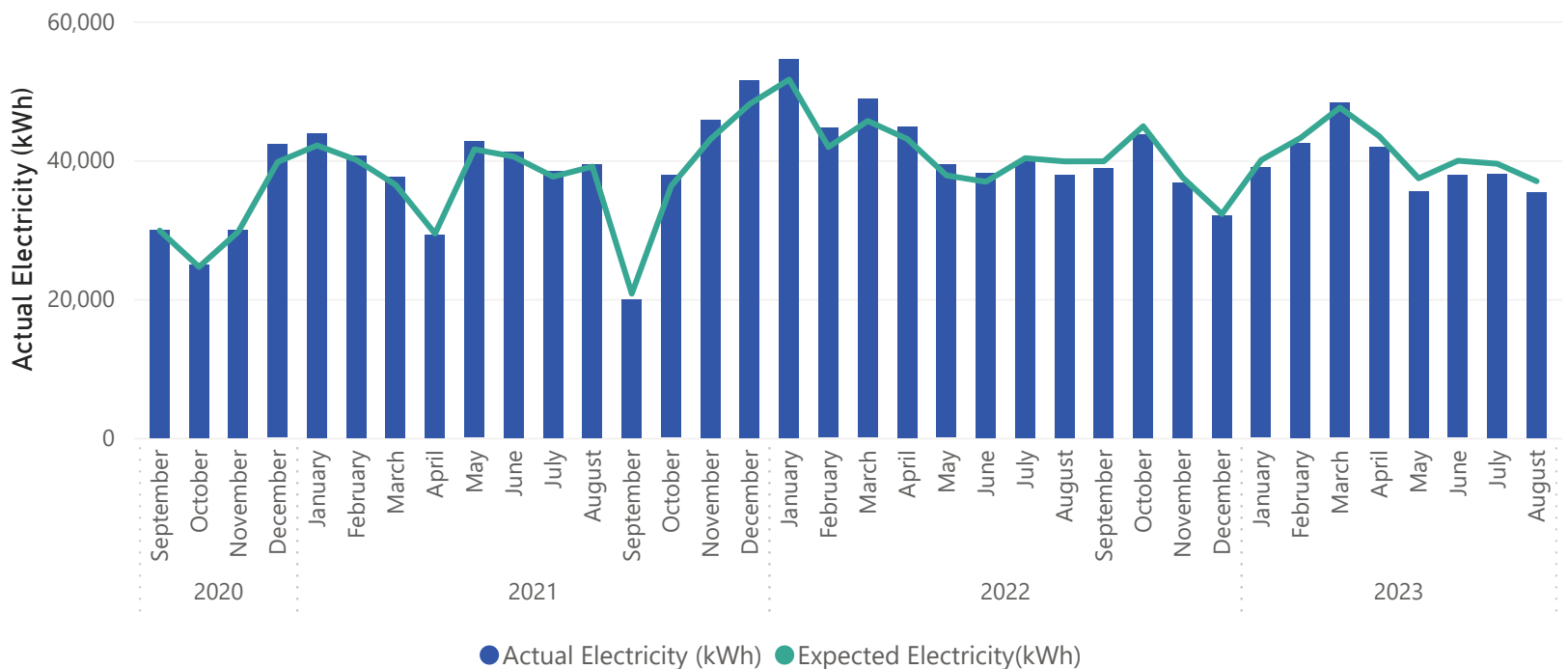
Paul Road Pump Station

<p>\$295 Monthly Energy Cost Savings</p>	<p>1,560 Elec. Savings (kWh/mo)</p>	<p>4% Elec. Savings (%)</p>	<p>12,624 R12M Electricity Savings (kWh/yr)</p>	<p>204 CO2e Savings (kg/mo)</p>
<p>\$2,378 R12M Energy Cost Savings</p>				<p>1,654 R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was less than expected at Paul Road Pump Station. The monthly EUI is below average over the past 12 months. Energy performance has been consistent, with savings each month from April 2023.

Paul Rd Pumps Electricity Use Compared to Baseline (kWh)

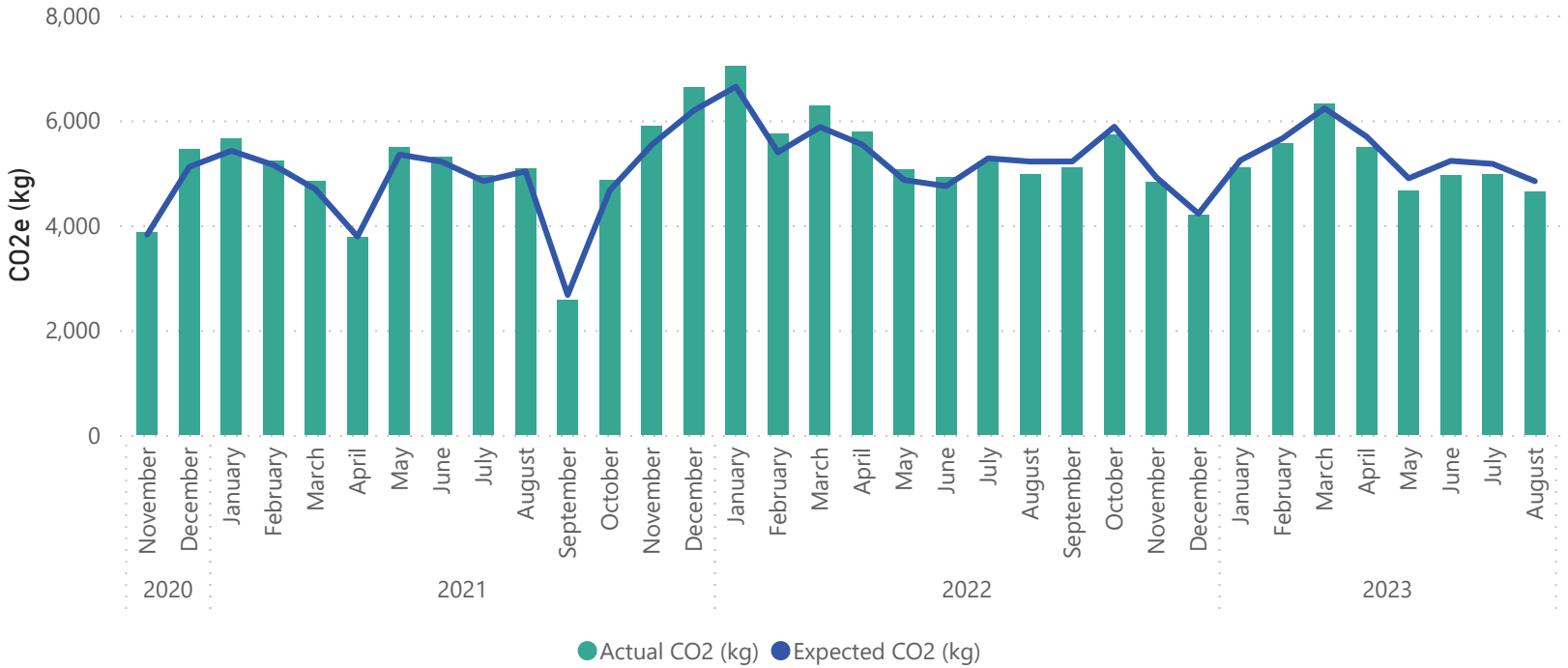


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

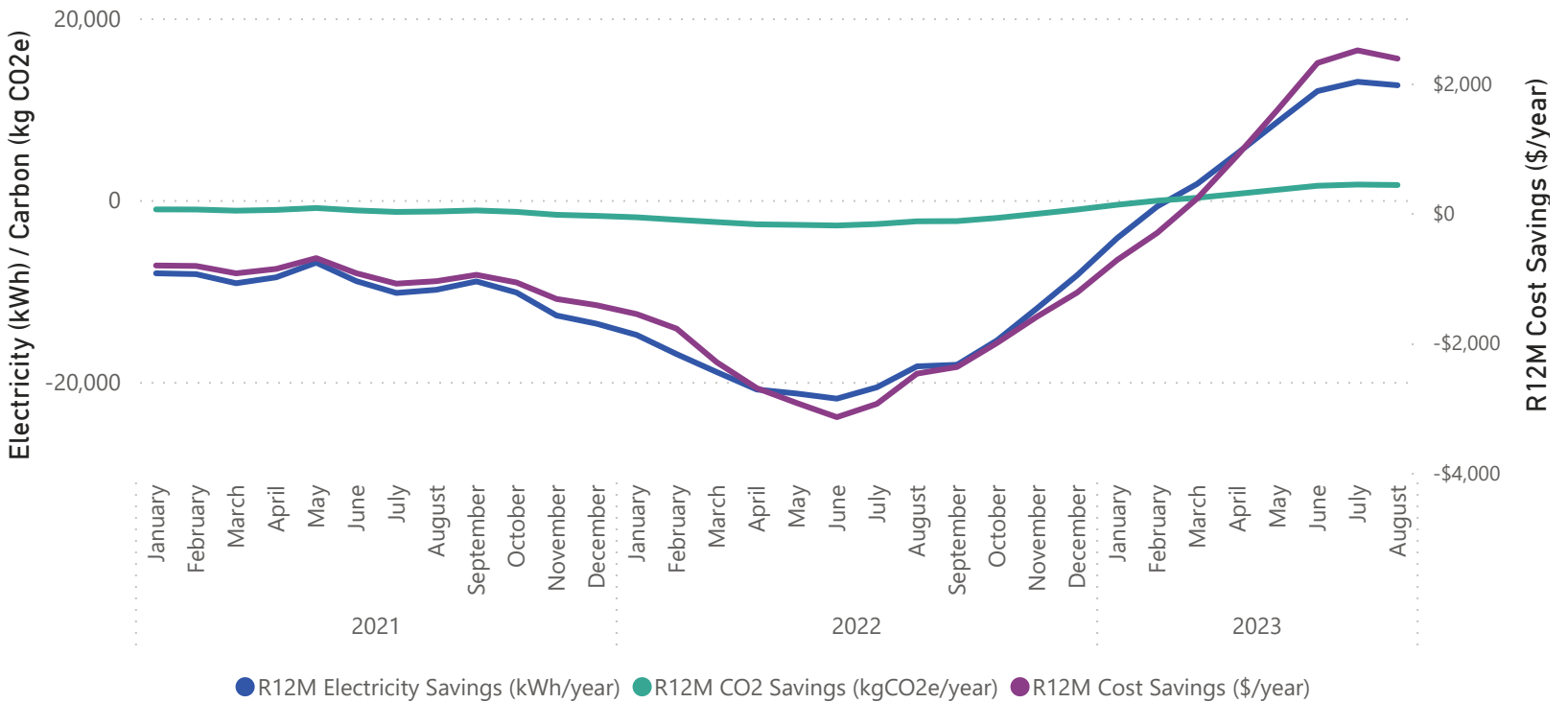
Whakatane District Council

Paul Road Pump Station

Paul Rd Pumps Carbon Emissions Compared to Baseline (kg CO2e)



Paul Rd Pumps Rolling 12 Month Savings

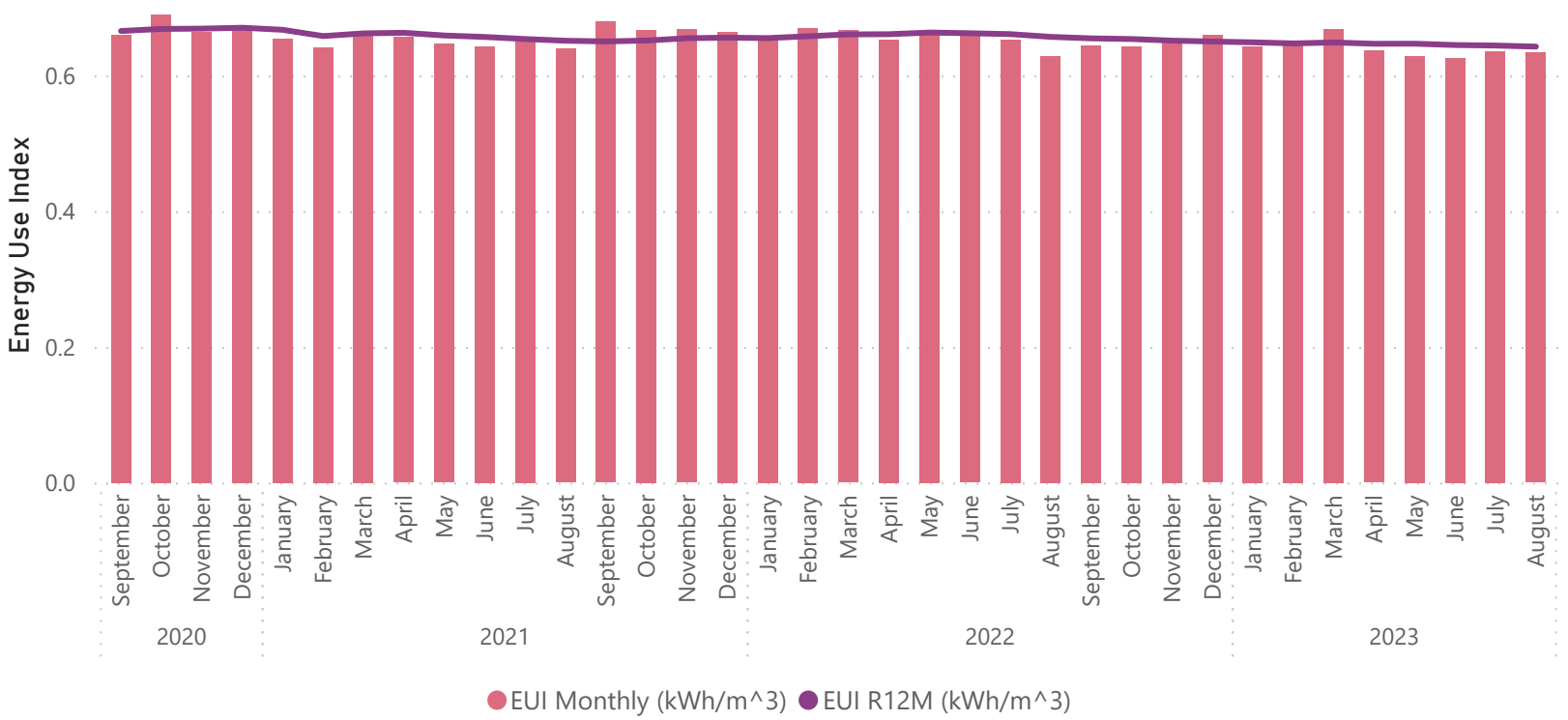


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Paul Road Pump Station

Paul Rd Pumps Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council

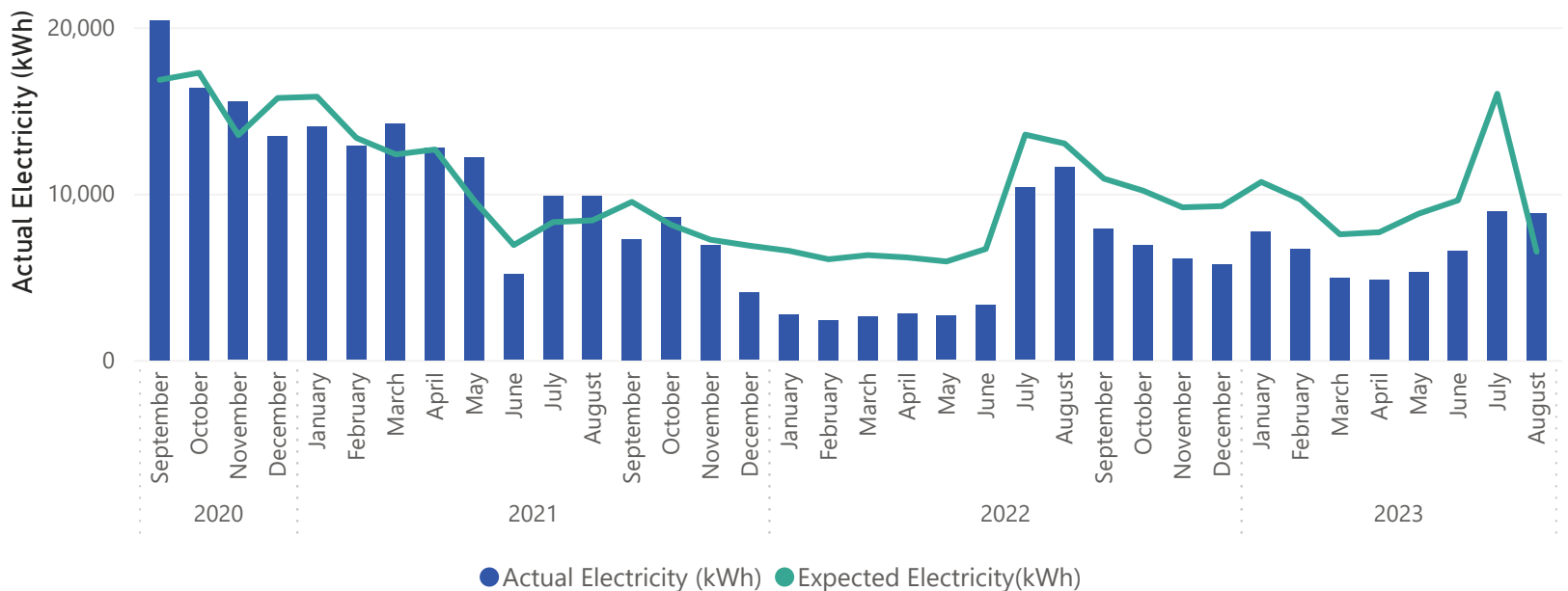
Johnson Road Pump Station

<p>-\$497 Monthly Energy Cost Savings</p>	<p>-2,310 Elec. Savings (kWh/mo)</p>	<p>-36% Elec. Savings (%)</p>	<p>35,458 R12M Electricity Savings (kWh/yr)</p>	<p>-303 CO2e Savings (kg/mo)</p>
<p>\$7,631 R12M Energy Cost Savings</p>			<p>4,645 R12M CO2e Savings (kg/yr)</p>	

Comments:

Johnson Rd Pump used significantly more electricity than expected in August. Daily water production has decreased from 25 July, however, electricity use remains high. Previously the pump has been operating more than typical to compensate for work being done at Braemar Rd. It is possible that increased electricity use may be due to some interactive effects between the two pump stations.

Johnson Rd Pumps Electricity Use Compared to Baseline (kWh)

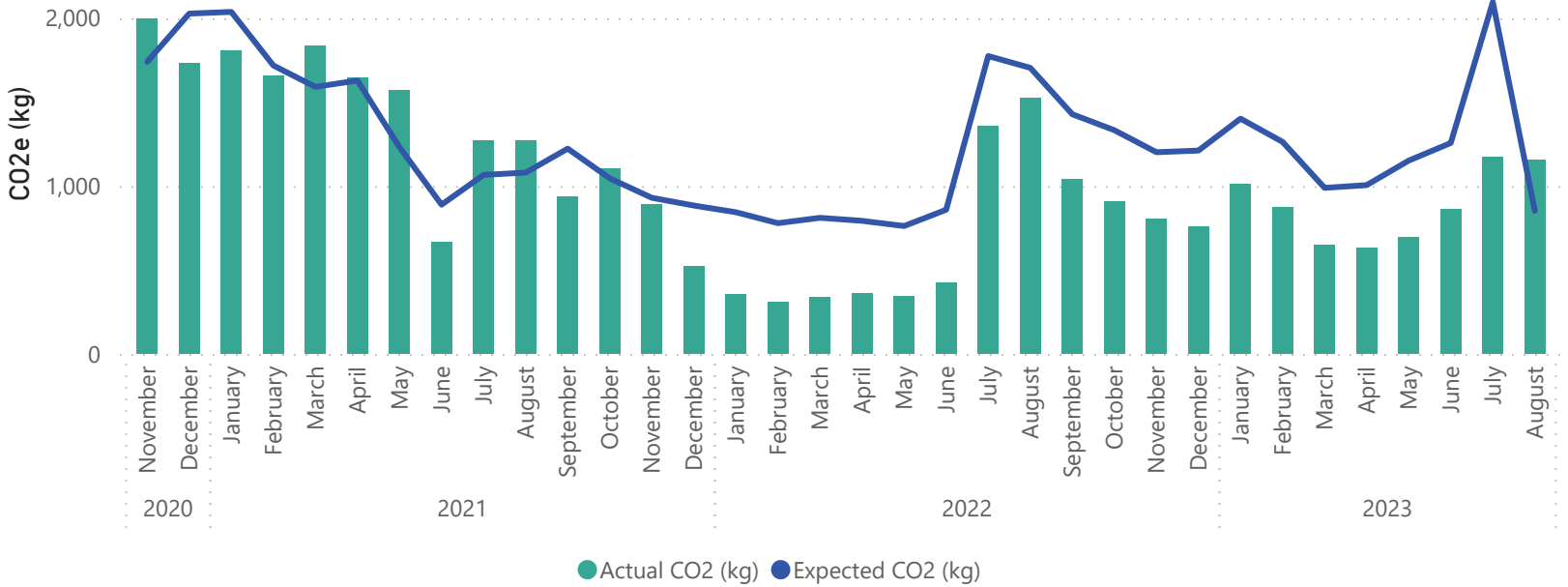


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

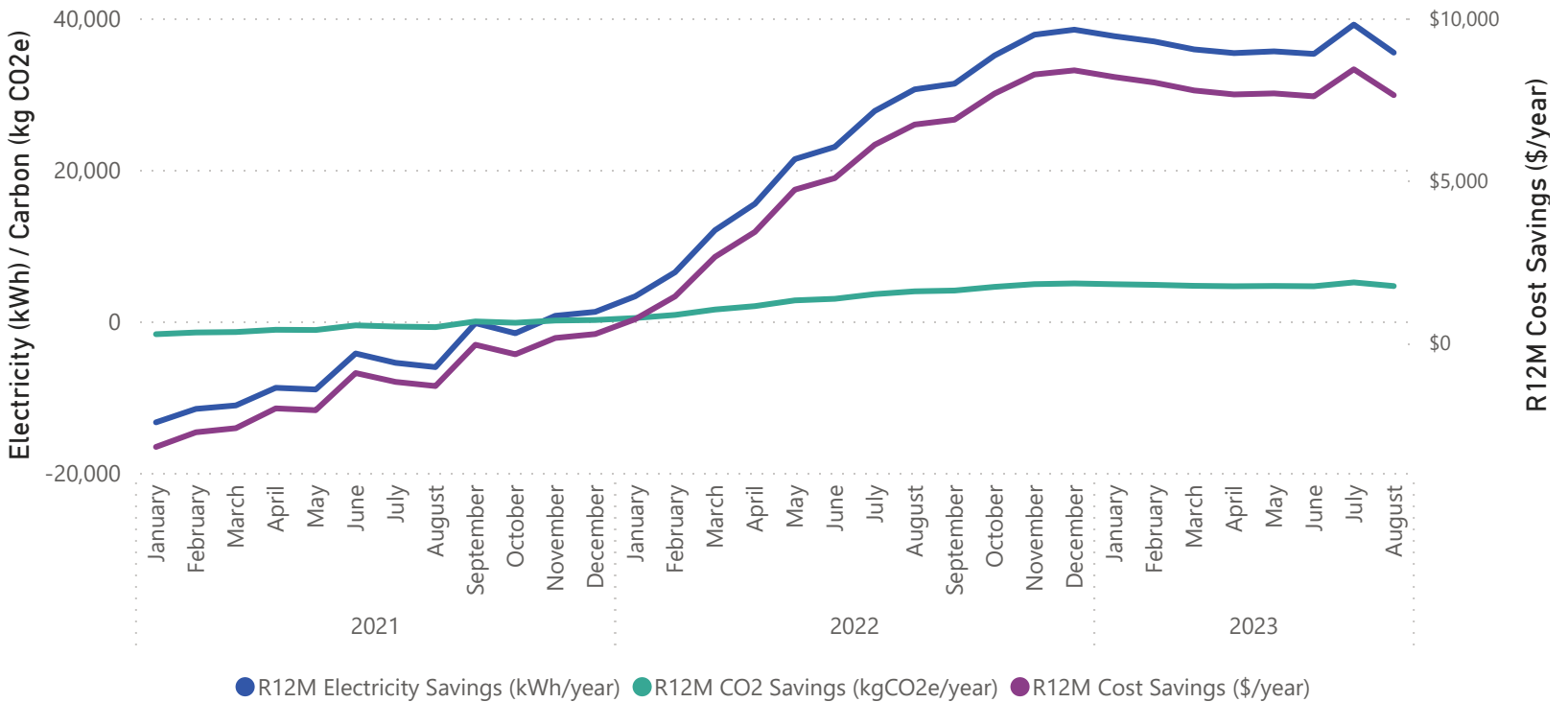
Whakatane District Council

Johnson Road Pump Station

Johnson Rd Pumps Carbon Emissions Compared to Baseline (kg CO2e)



Johnson Rd Pumps Rolling 12 Month Savings

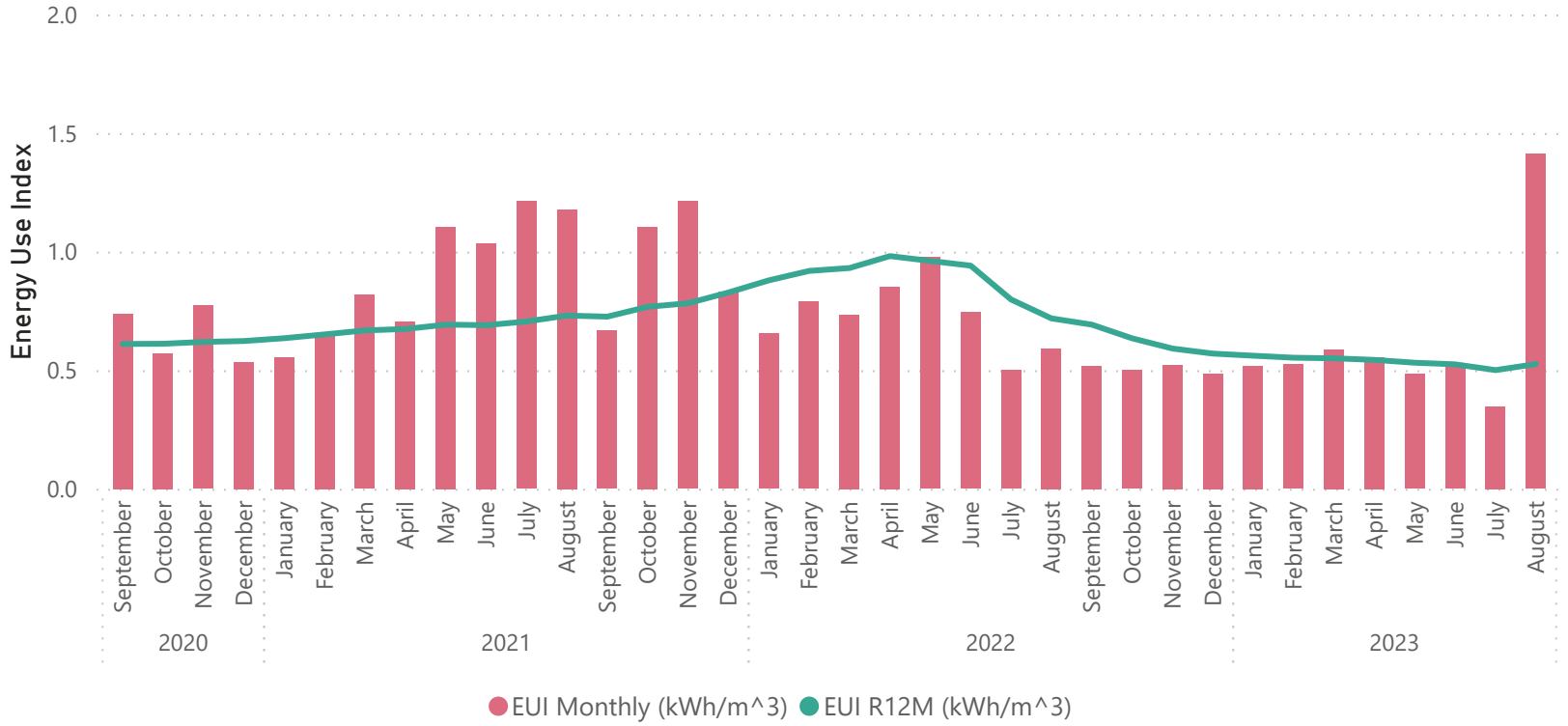


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Johnson Road Pump Station

Johnson Rd Pumps Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council

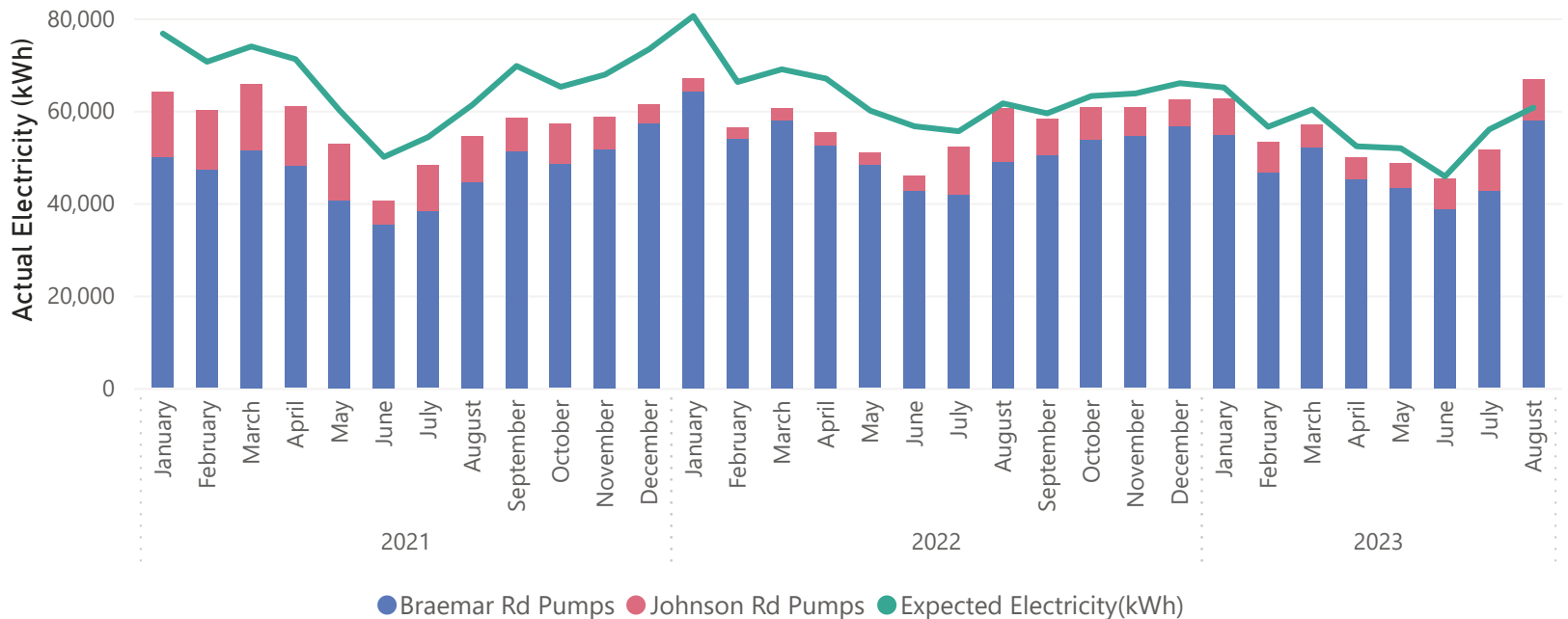
Johnson and Braemar Rd Pump Stations

<p>-\$1,234 Monthly Energy Cost Savings</p>	<p>-6,114 Elec. Savings (kWh/mo)</p>	<p>-10% Elec. Savings (%)</p>	<p>23,491 R12M Electricity Savings (kWh/yr)</p>	<p>-801 CO2e Savings (kg/mo)</p>
<p>\$5,292 R12M Energy Cost Savings</p>				<p>3,077 R12M CO2e Savings (kg/yr)</p>

Comments:

Both Johnson Rd and Braemar Rd pump stations have used more electricity than expected in August 2023. This is likely due to work being completed at Braemar Road which added additional screening. Water production at Braemar Rd has been estimated in the interim, as data becomes available the energy performance of the network will become apparent.

Johnson and Braemar Rd Pump Stations Electricity Use Compared to Baseline (kWh)

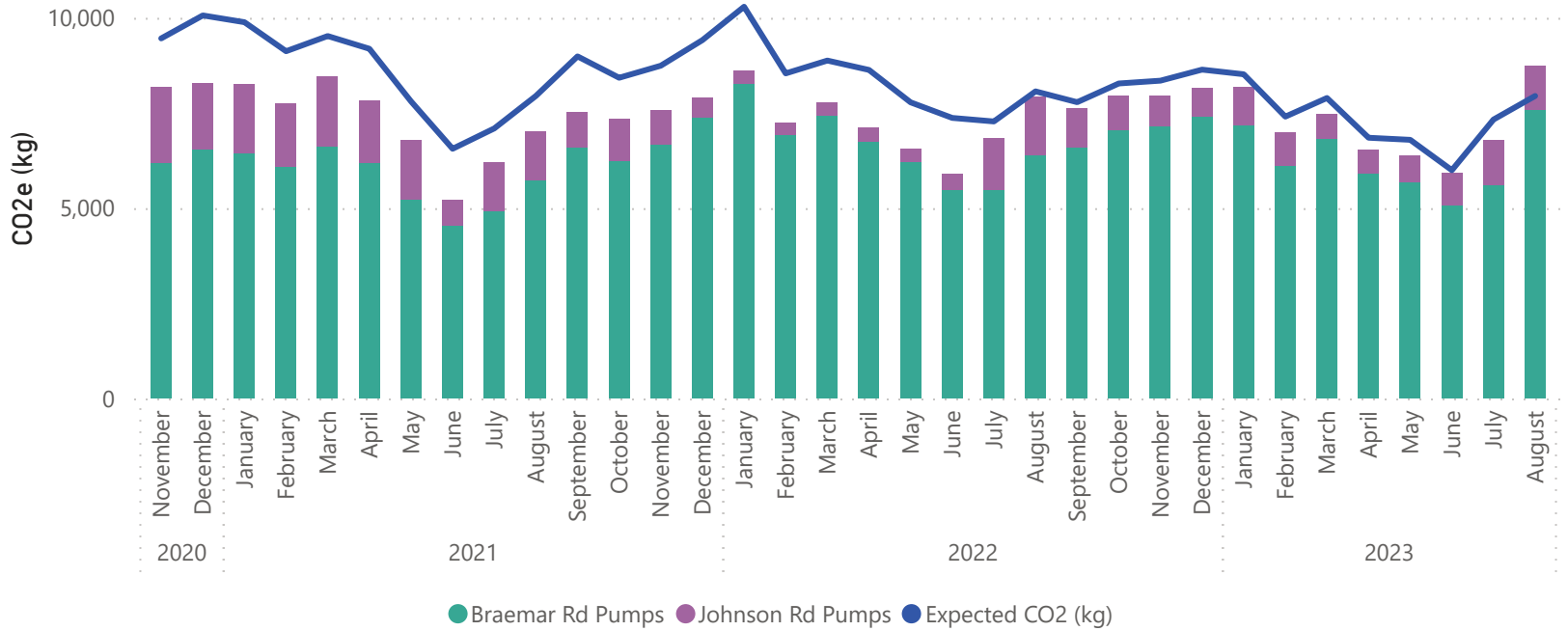


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

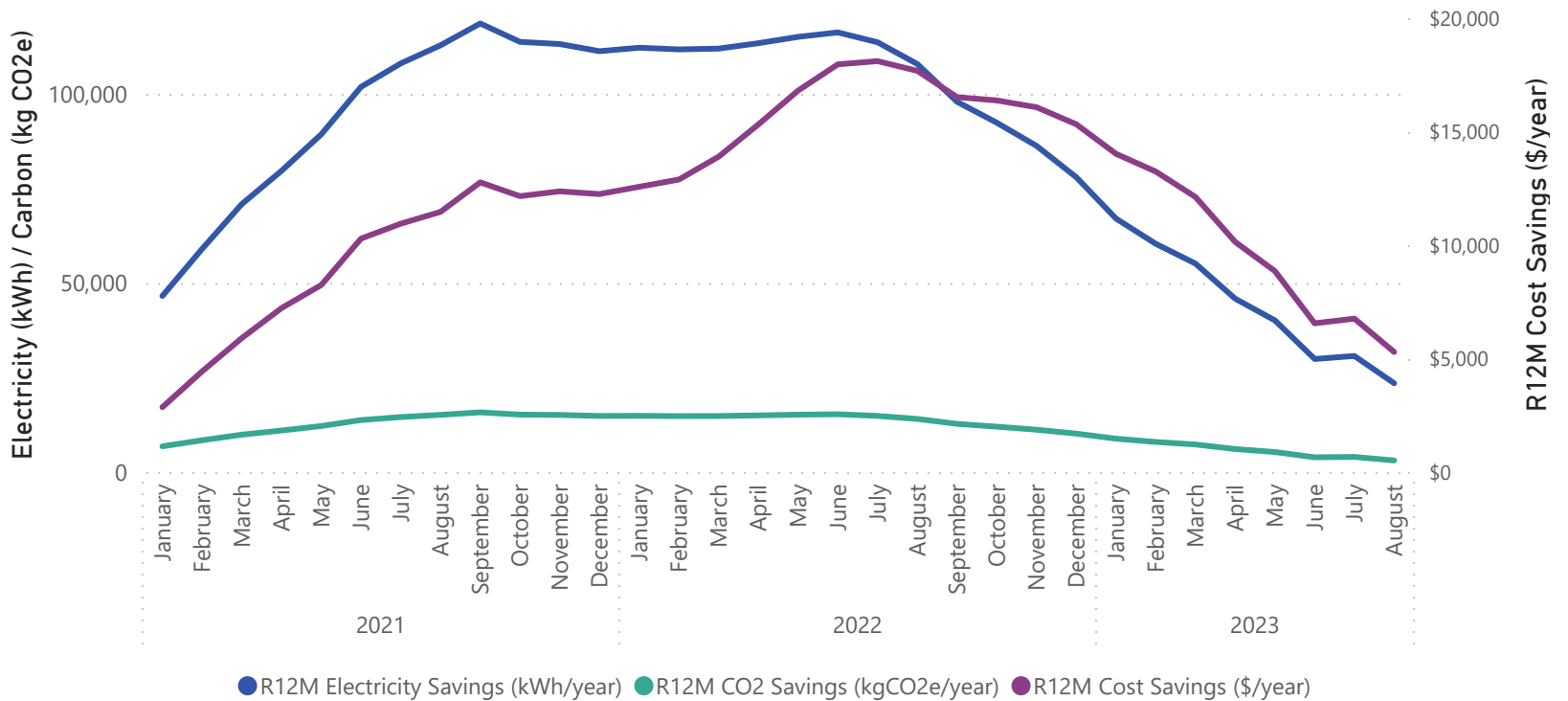
Whakatane District Council

Johnson and Braemar Rd Pump Stations

Johnson and Braemar Rd Pump Stations Carbon Emissions Compared to Baseline (kWh)



Johnson and Braemar Rd Pump Stations Cumulative Rolling 12 Month Savings

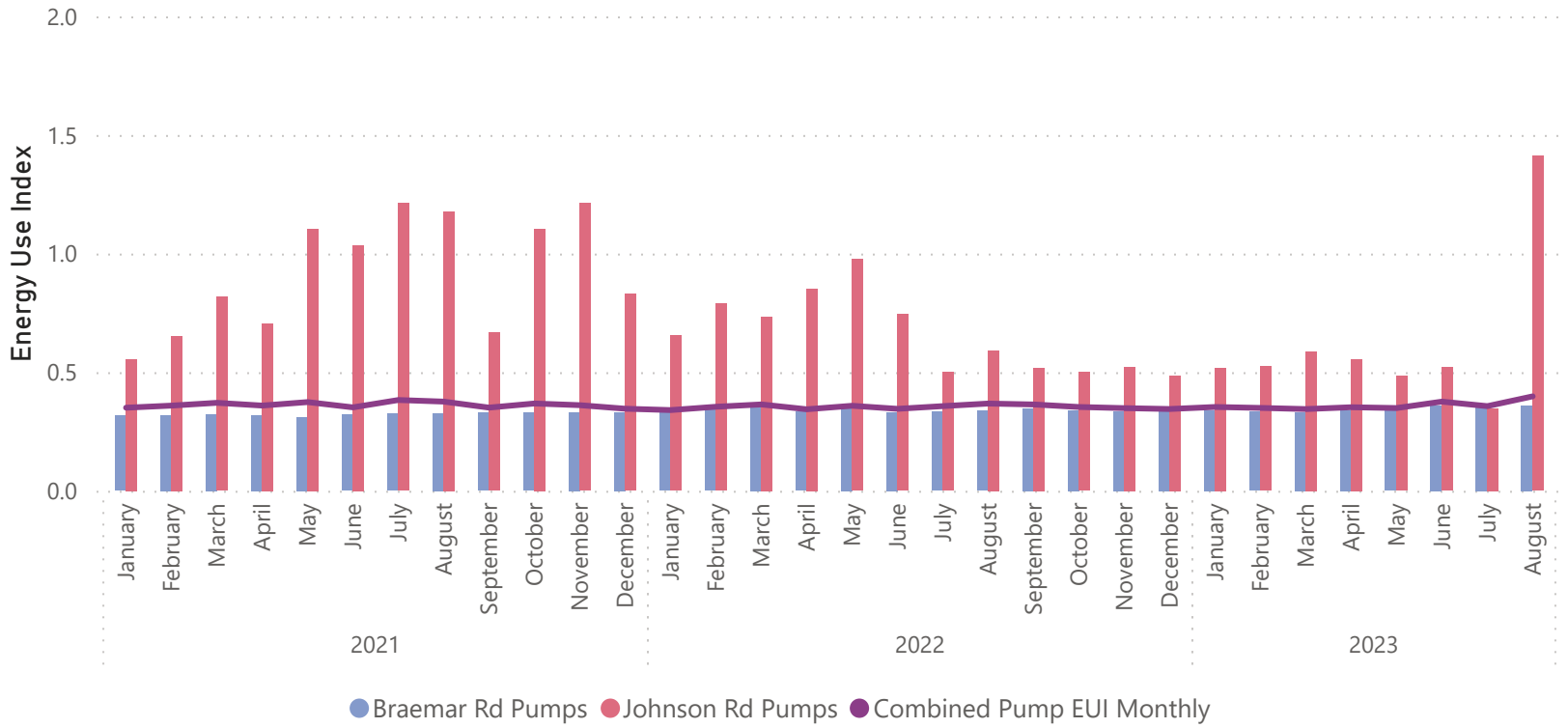


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Johnson and Braemar Rd Pump Stations

Johnson and Braemar Rd Pump Stations Energy Use Index by Month



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council

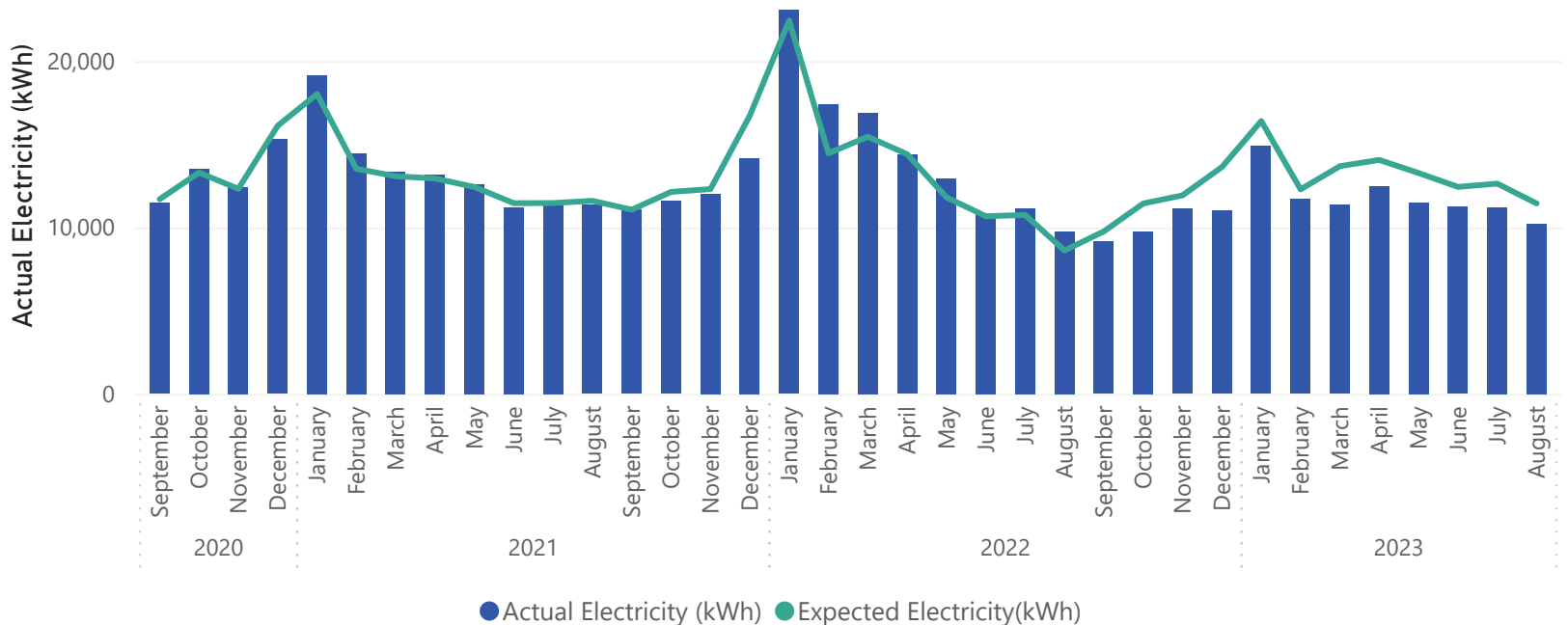
Bridger Glade Pump Station

<p>\$216 Monthly Energy Cost Savings</p>	<p>1,222 Elec. Savings (kWh/mo)</p>	<p>11% Elec. Savings (%)</p>	<p>17,368 R12M Electricity Savings (kWh/yr)</p>	<p>160 CO2e Savings (kg/mo)</p>
<p>\$3,064 R12M Energy Cost Savings</p>				<p>2,275 R12M CO2e Savings (kg/yr)</p>

Comments:

August 2023 is the 12th month in a row that the Bridger Glade Pump Station has used less electricity than expected, this is due to new supply pumps that were installed in late August 2022. Savings over the past year are \$3,000, 17,400 kWh, and 2,300 kg CO2e.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

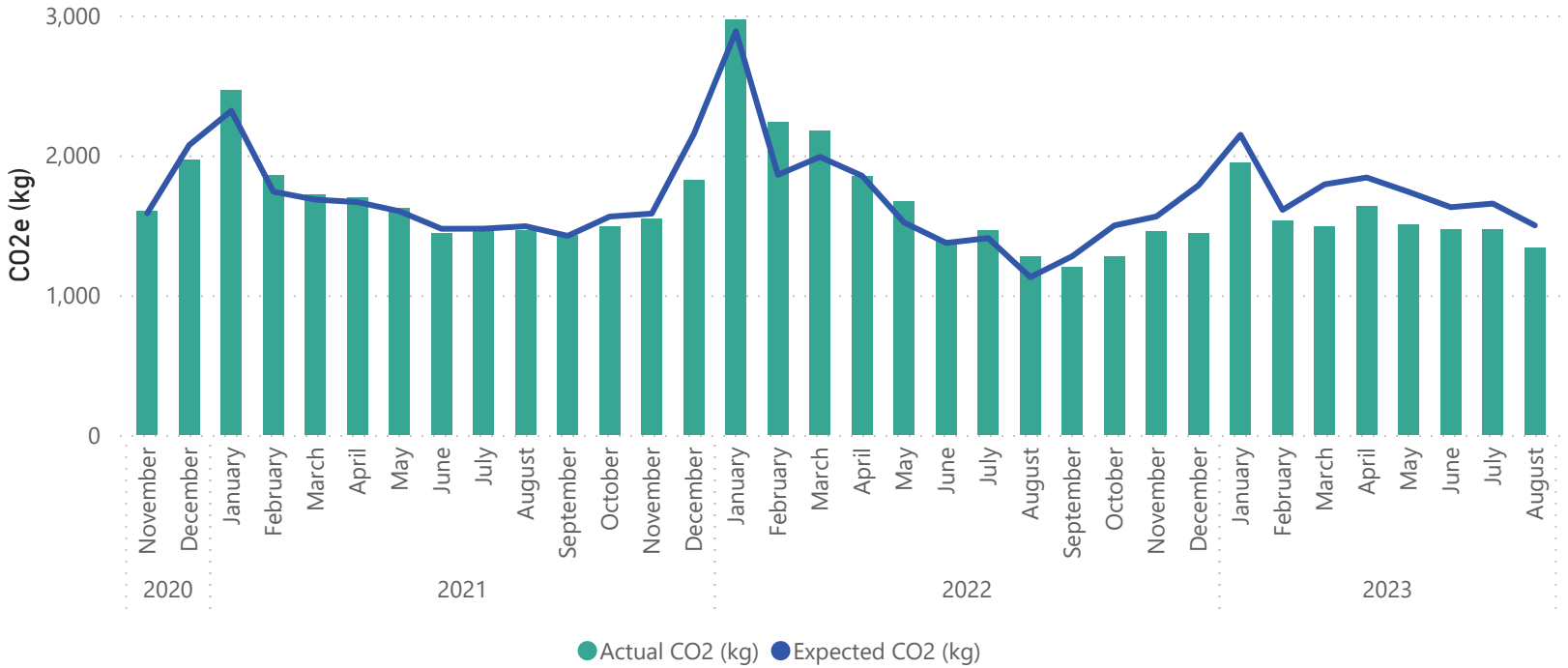


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

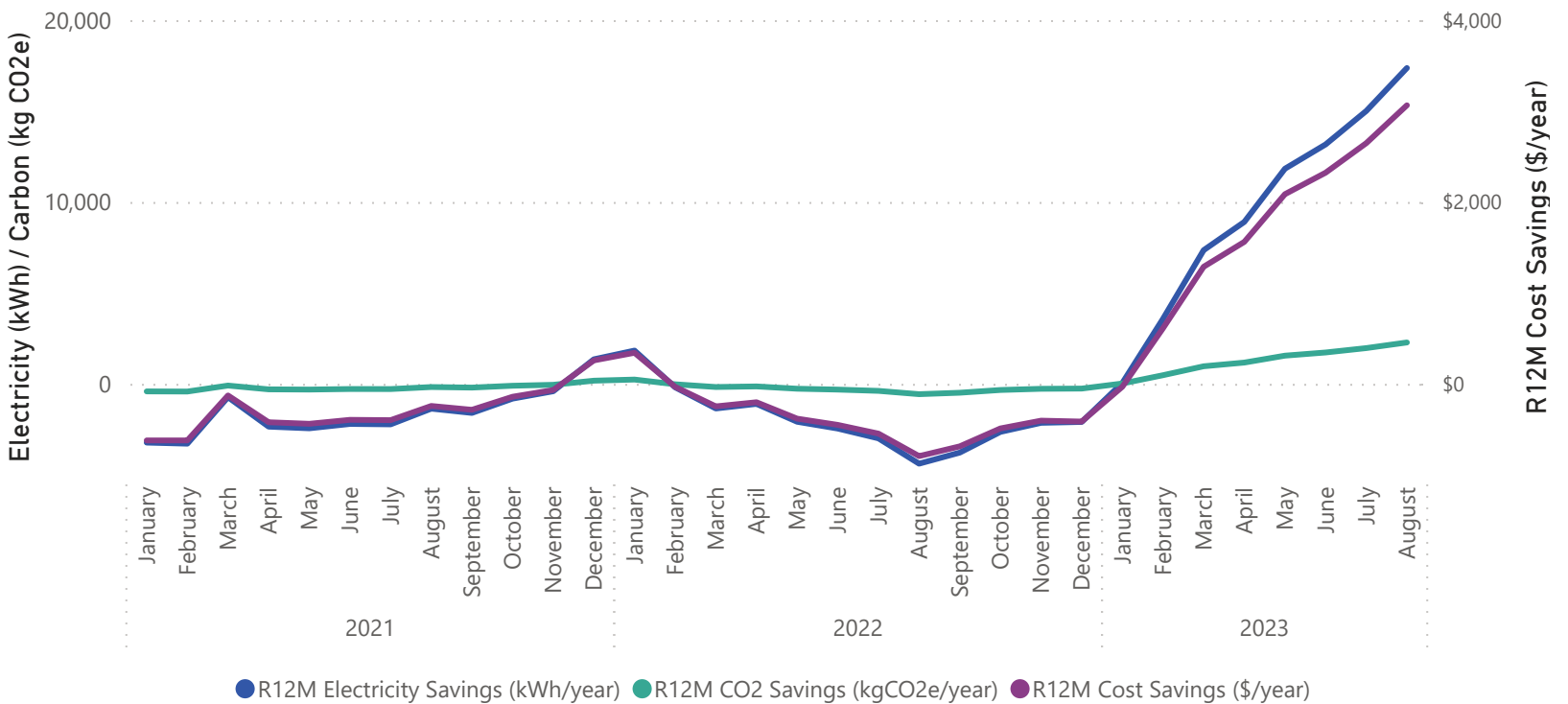
Whakatane District Council

Bridger Glade Pump Station

Bridger Glade Pumps Carbon Emissions Compared to Baseline (kg CO2e)



Bridger Glade Pumps Rolling 12 Month Savings

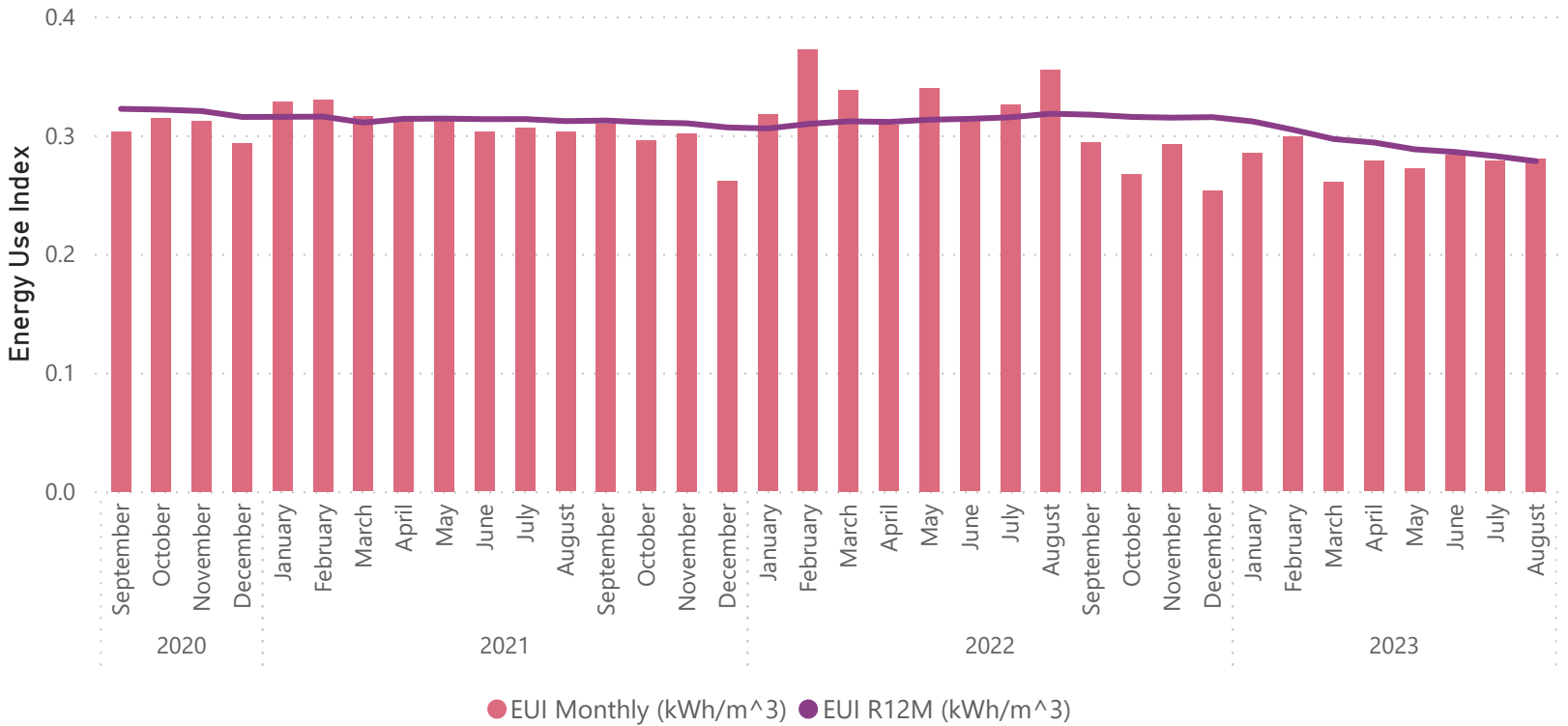


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Bridger Glade Pump Station

Bridger Glade Pumps Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council

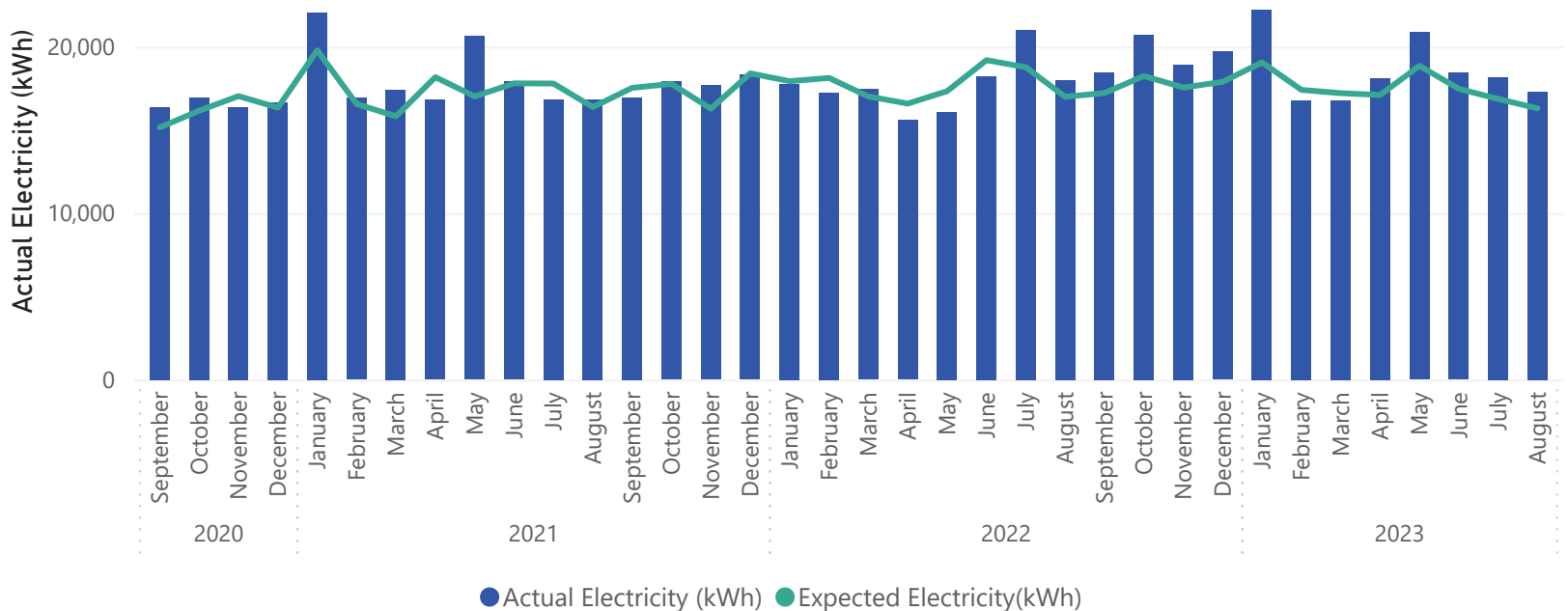
Ohope Oxidation Ponds

<p>-\$174 Monthly Energy Cost Savings</p>	<p>-990 Elec. Savings (kWh/mo)</p>	<p>-6% Elec. Savings (%)</p>	<p>-15,213 R12M Electricity Savings (kWh/yr)</p>	<p>-130 CO2e Savings (kg/mo)</p>
<p>-\$2,677 R12M Energy Cost Savings</p>				<p>-1,993 R12M CO2e Savings (kg/yr)</p>

Comments:

Ohope Oxidation Ponds have used more electricity than expected in 10 of the last 12 months. Rainfall has generally been higher than usual, which may contribute to higher electricity usage. The monthly EUI in August is higher than average for the past 12 months, which is expected due to a high baseload and lower production.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

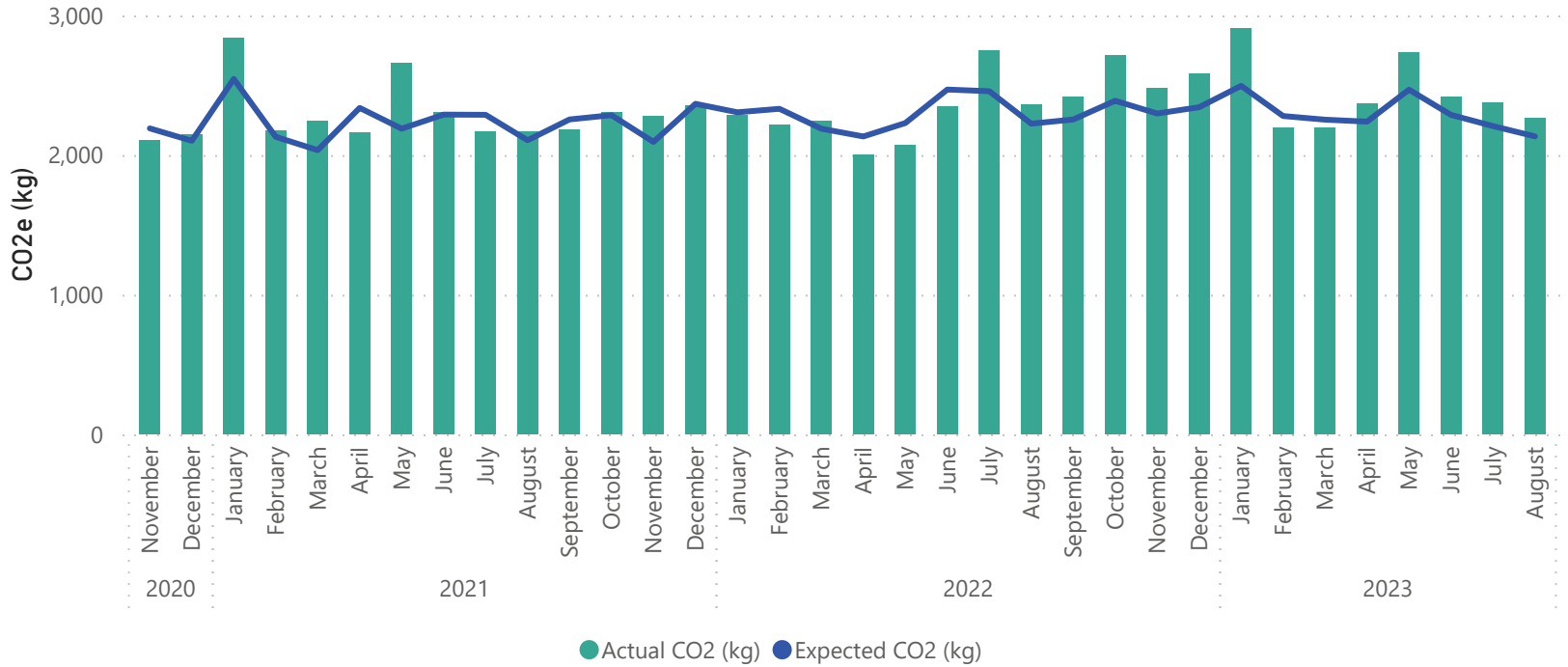


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

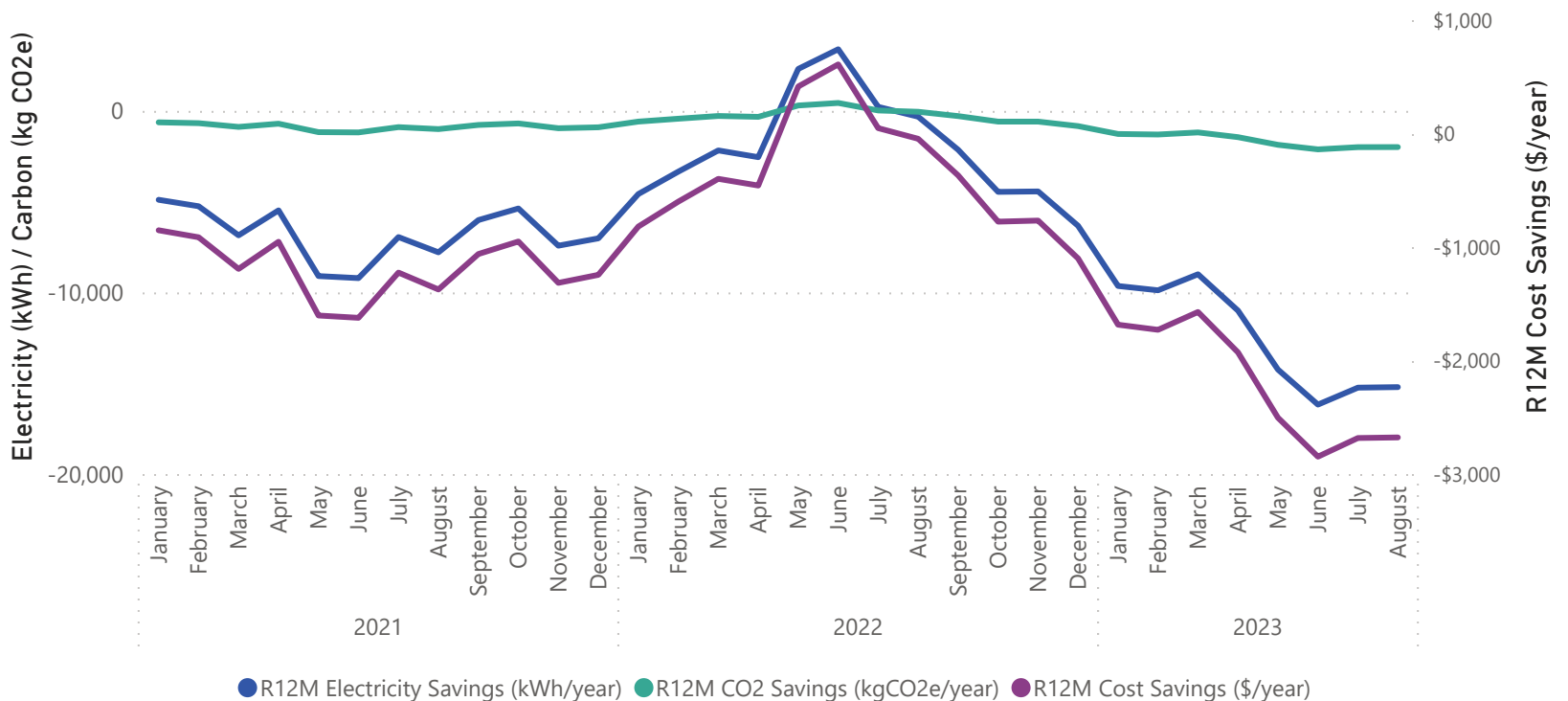
Whakatane District Council

Ohope Oxidation Ponds

Ohope Oxidation Ponds Carbon Emissions Compared to Baseline (kg CO2e)



Ohope Oxidation Ponds Rolling 12 Month Savings

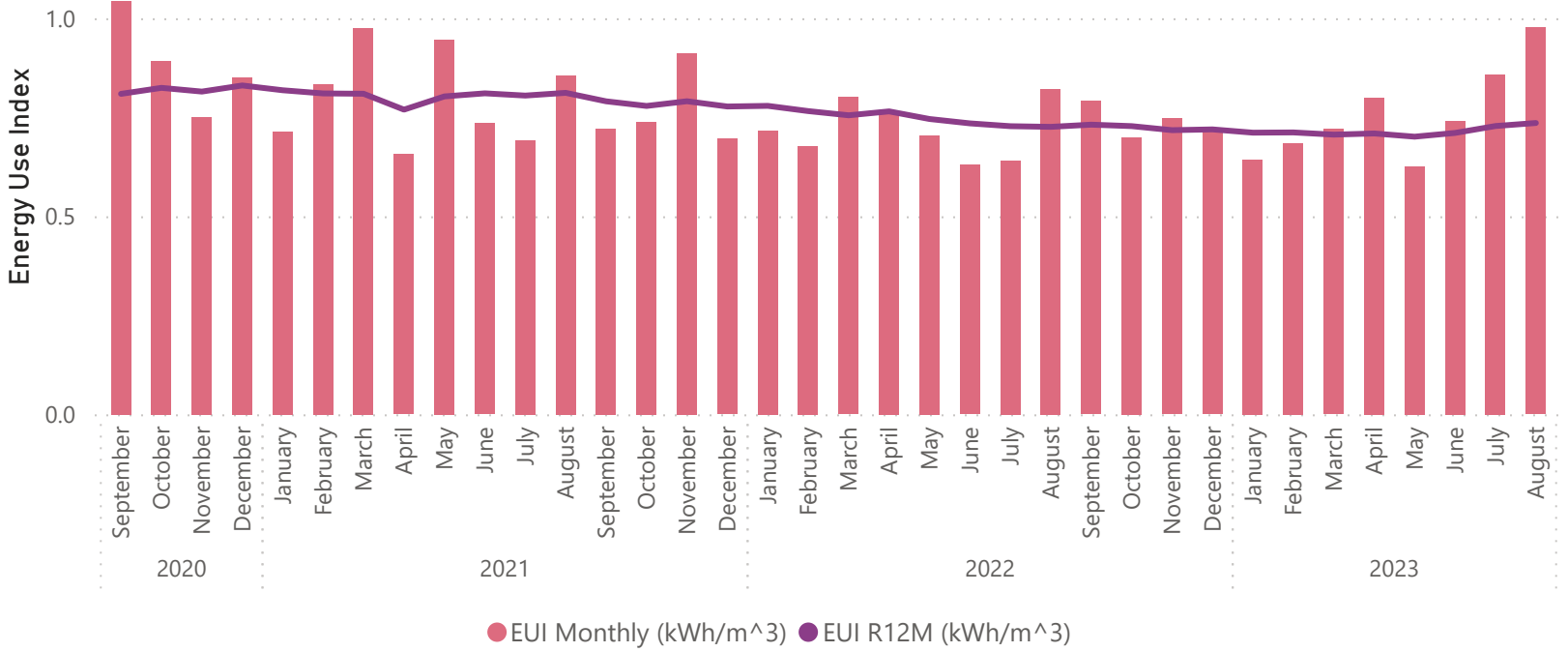


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Ohope Oxidation Ponds

Ohope Oxidation Ponds Energy Use Index by Month Compared to Rolling 12-Month Values



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
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Whakatane District Council

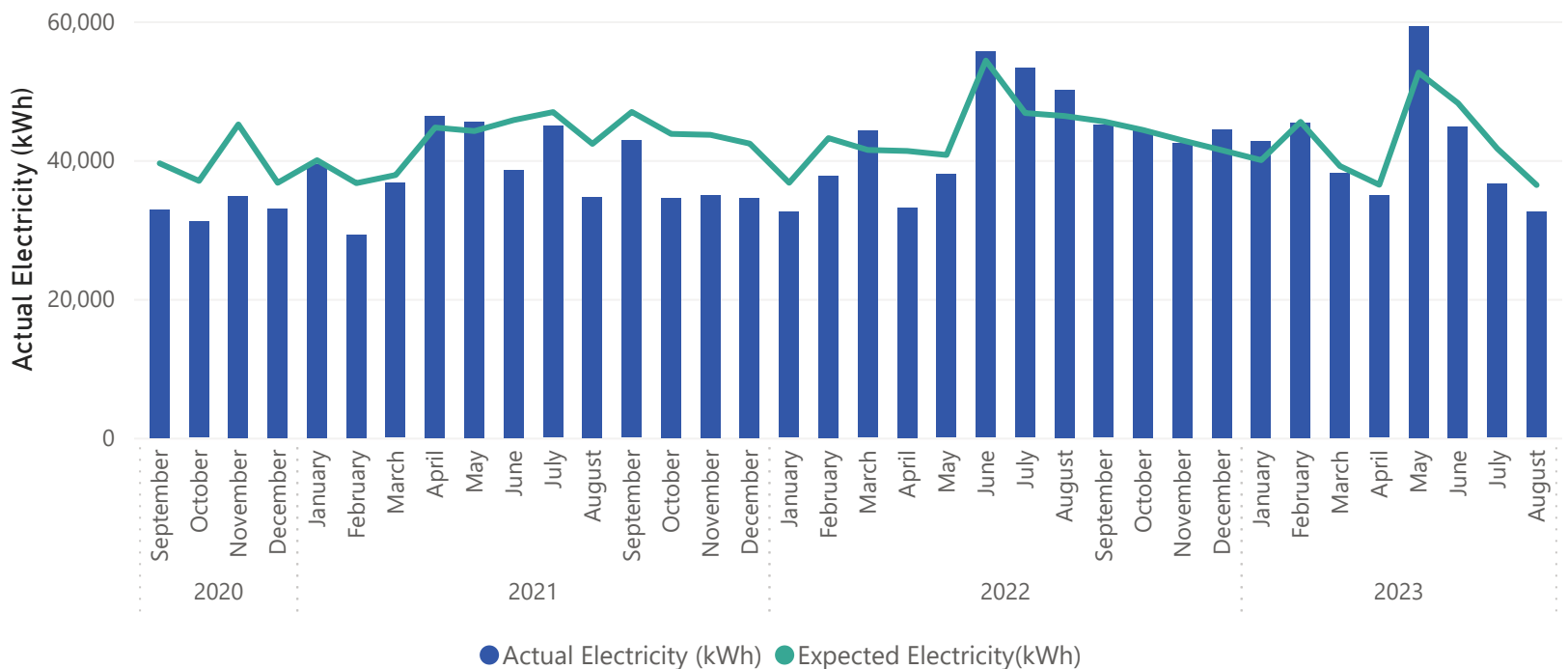
Whakatane Oxidation Ponds

<p>\$759 Monthly Energy Cost Savings</p>	<p>3,866 Elec. Savings (kWh/mo)</p>	<p>11% Elec. Savings (%)</p>	<p>3,482 R12M Electricity Savings (kWh/yr)</p>	<p>506 CO2e Savings (kg/mo)</p>
<p>\$863 R12M Energy Cost Savings</p>				<p>456 R12M CO2e Savings (kg/yr)</p>

Comments:

The oxidation ponds used 11% less electricity than expected in August 2023. August 2023 was a month of lower than average rainfall, approximately 44mm of rain was recorded for the month. Rolling 12 month EUI is trending downwards, which is good.

Whakatane Oxidation Ponds Electricity Use Compared to Baseline (kWh)

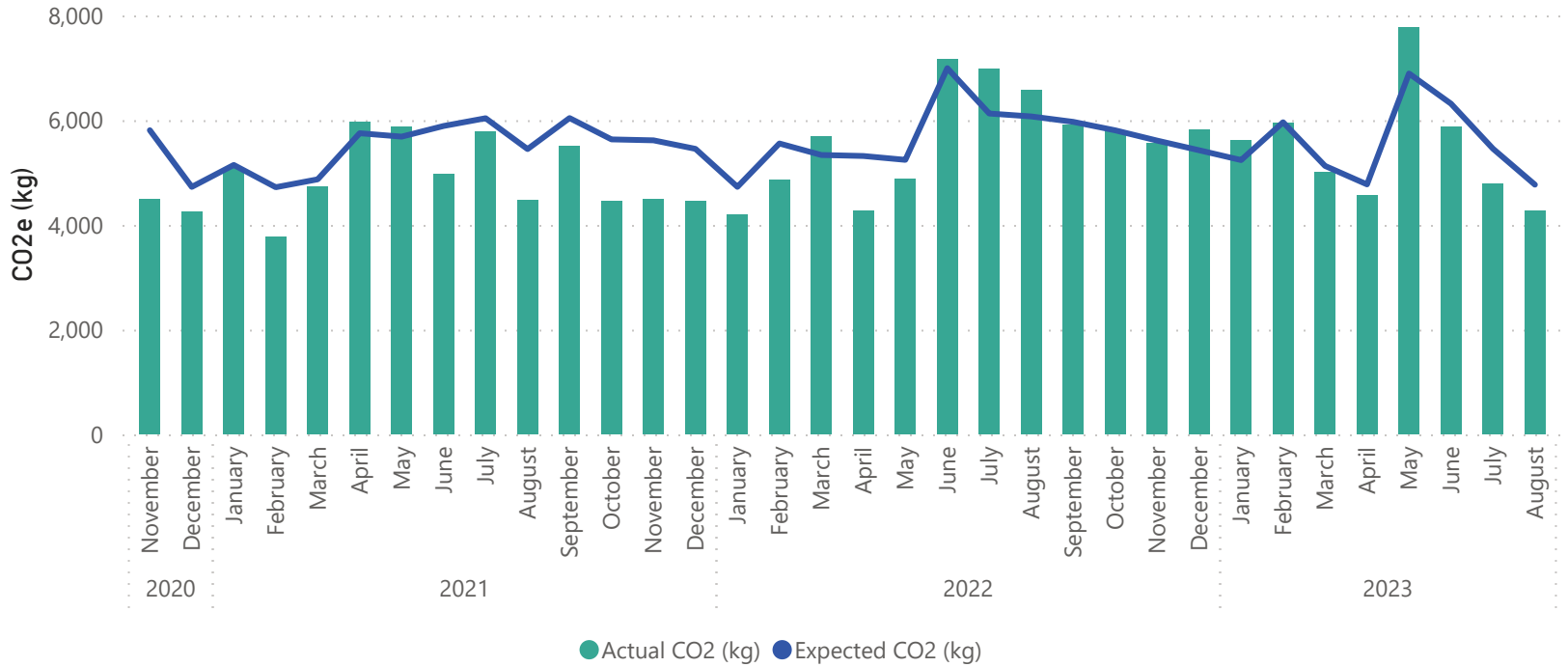


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

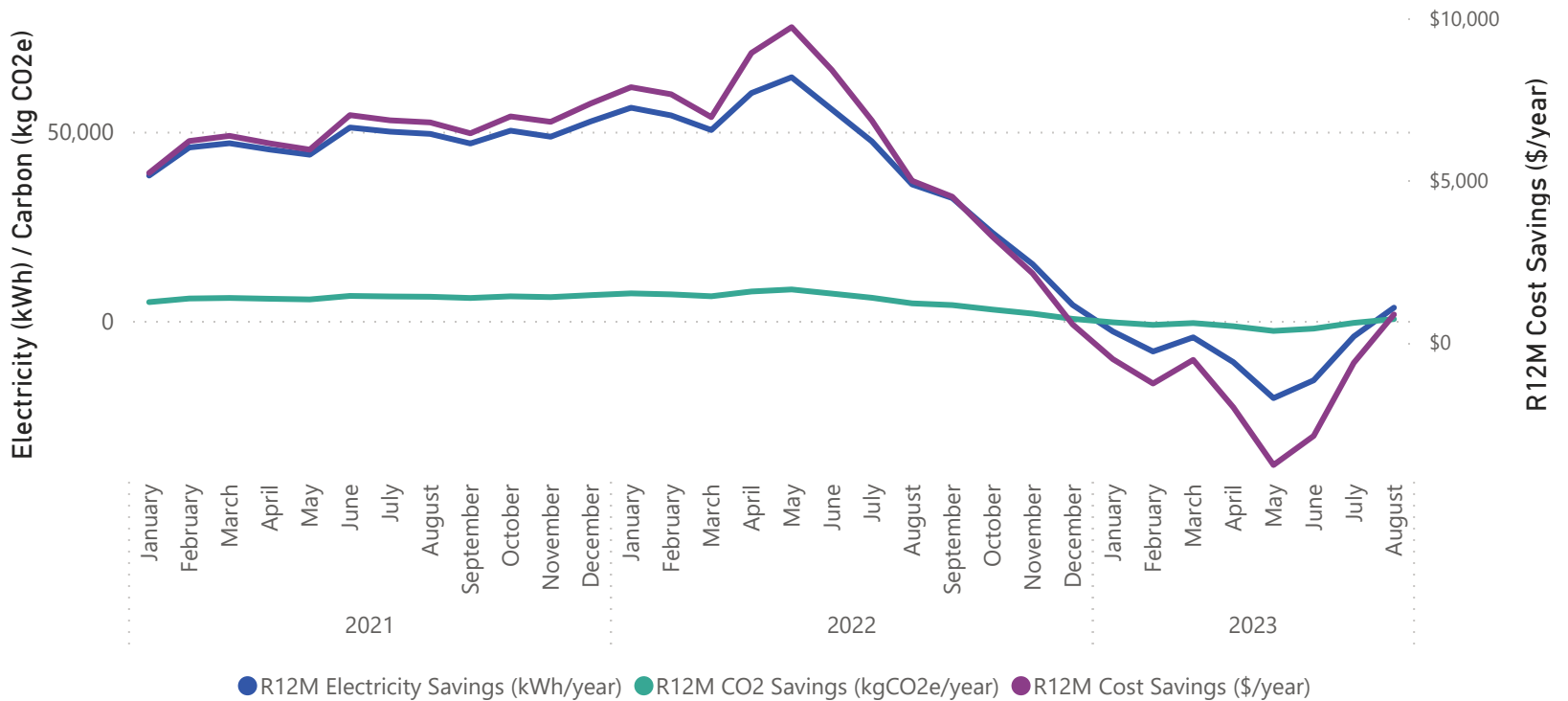
Whakatane District Council

Whakatane Oxidation Ponds

Whakatane Oxidation Ponds Carbon Emissions Compared to Baseline (kg CO2e)



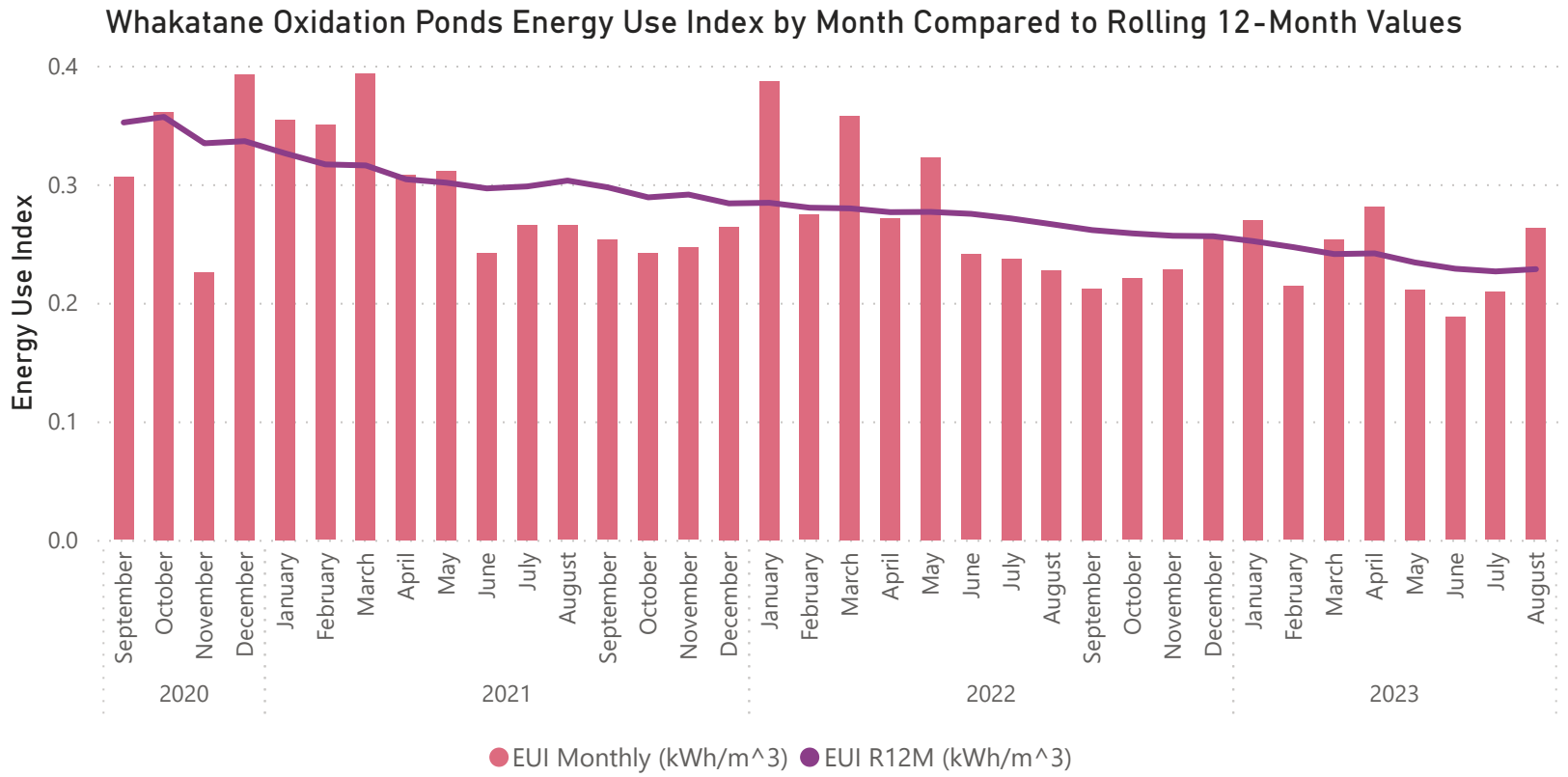
Whakatane Oxidation Ponds Rolling 12 Month Savings



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Whakatane Oxidation Ponds



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

Whakatane District Council

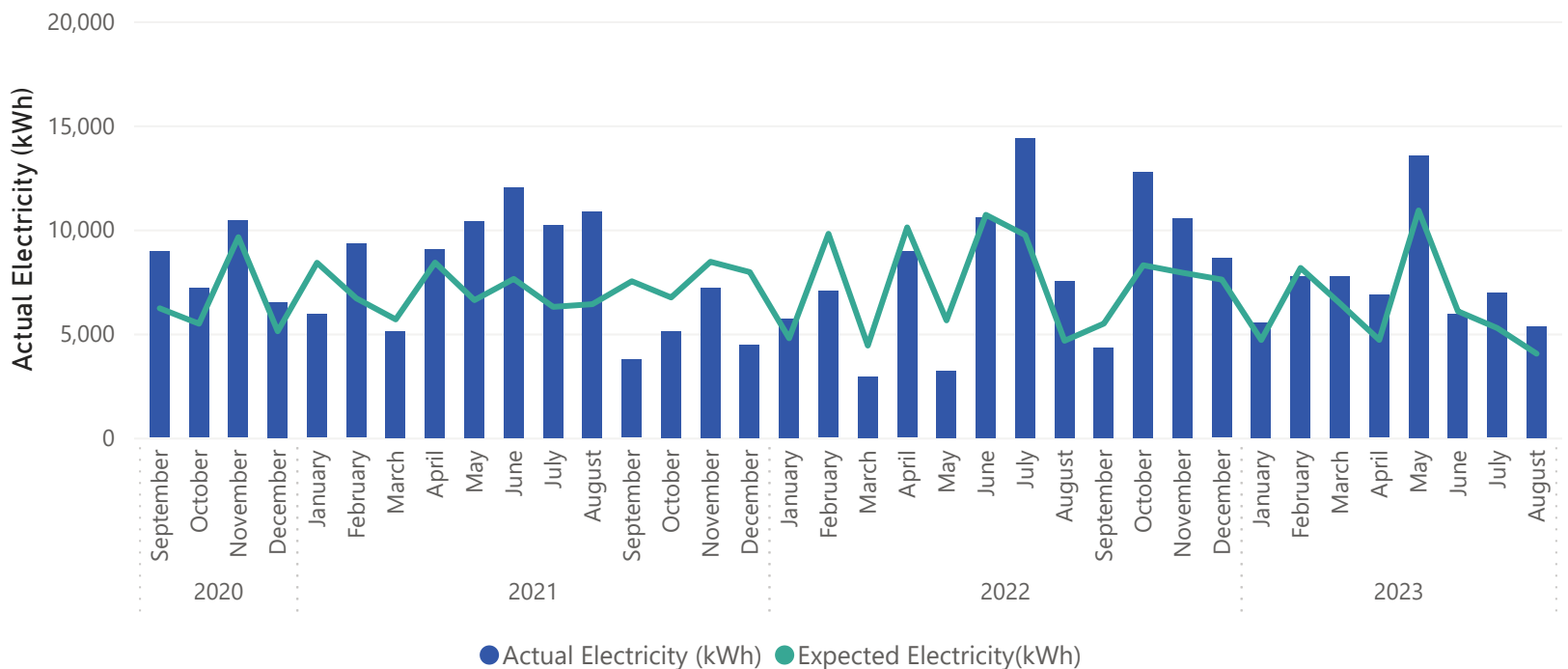
McAlister Street and Rose Garden Pump Stations

<p>-\$23 Monthly Energy Cost Savings</p>	<p>-1,310 Elec. Savings (kWh/mo)</p>	<p>-33% Elec. Savings (%)</p>	<p>-16,399 R12M Electricity Savings (kWh/yr)</p>	<p>-172 CO2e Savings (kg/mo)</p>
<p>\$822 R12M Energy Cost Savings</p>				<p>-2,148 R12M CO2e Savings (kg/yr)</p>

Comments:

The pump stations used 33% more electricity than expected this month. August 2023 was a month of below average rainfall, approximately 45mm of rain coincided within the billing period. Rainfall over the past 12 months averaged 150mm per month.

McAlister and Rose Garden Pumps Electricity Use Compared to Baseline (kWh)

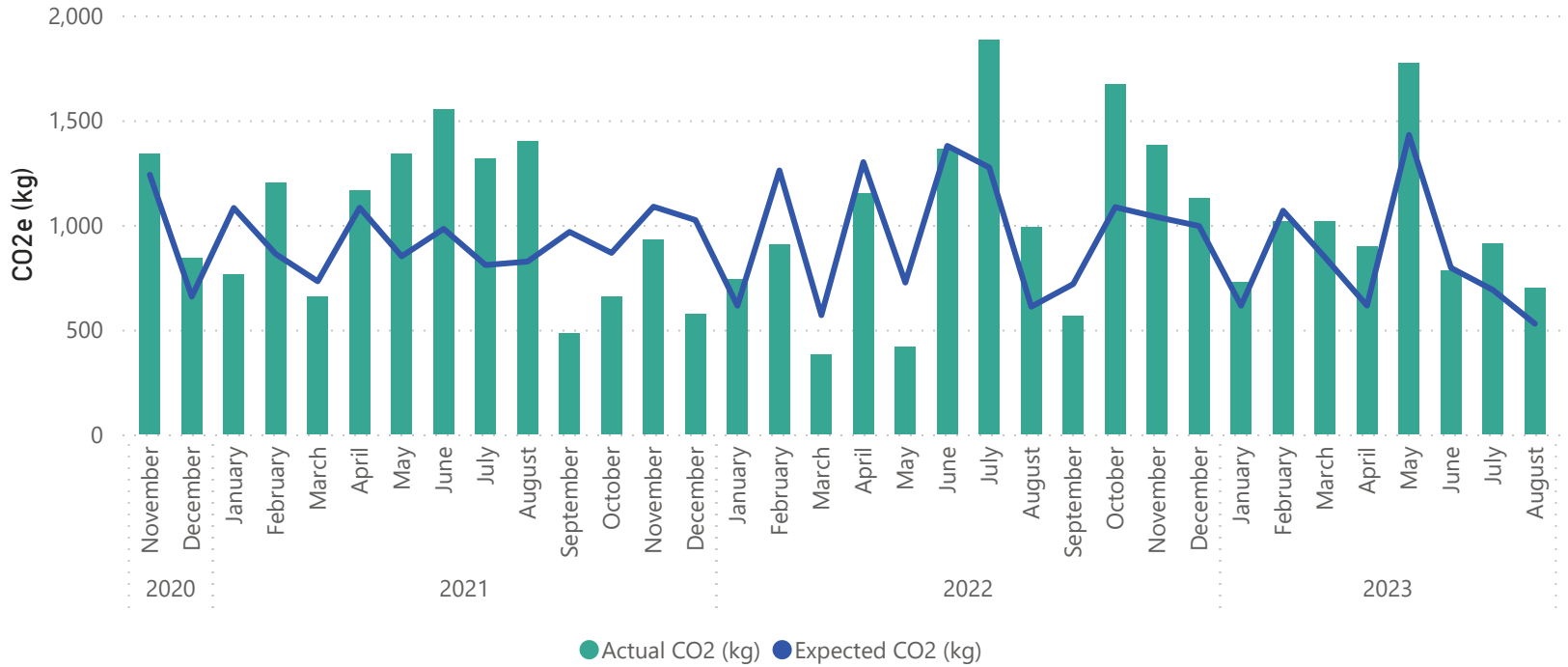


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

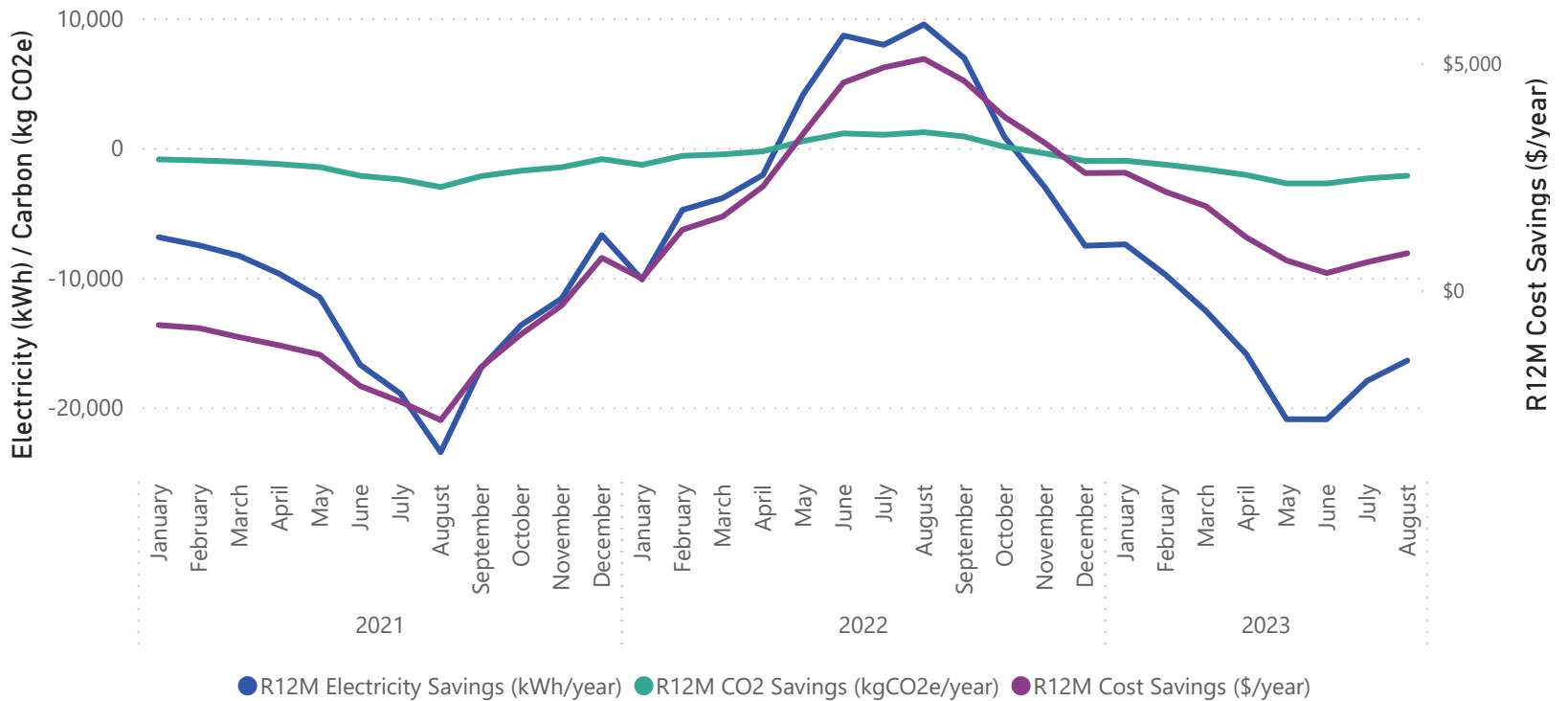
Whakatane District Council

McAlister Street and Rose Garden Pump Stations

McAlister and Rose Garden Pumps Carbon Emissions Compared to Baseline (kg CO2e)



McAlister and Rose Garden Pumps Rolling 12 Month Savings



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Murupara Pools

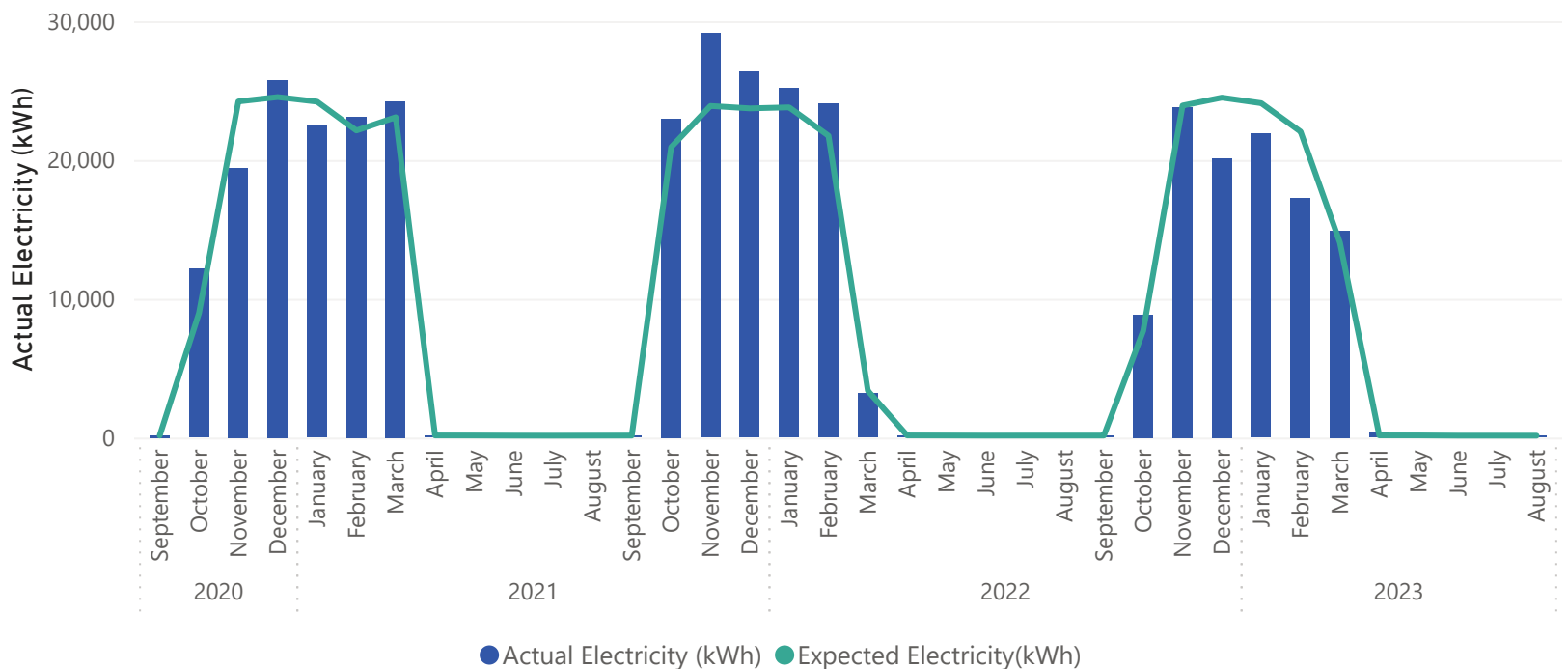
<p>\$6 Monthly Energy Cost Savings</p>	<p>32 Elec. Savings (kWh/mo)</p>	<p>23% Elec. Savings (%)</p>	<p>9,348 R12M Electricity Savings (kWh/yr)</p>	<p>4 CO2e Savings (kg/mo)</p>
<p>\$1,623 R12M Energy Cost Savings</p>				<p>1,225 R12M CO2e Savings (kg/yr)</p>

Comments:

Murupara Pools have been added to reporting in December 2022. The baseline period uses data from July 2021 to June 2022 and adjusts for ambient temperature as well as how many days in the month the pool is open or closed.

The pools are now closed for the season and are using a few kWh per day.

Murupara Pools Electricity Use Compared to Baseline (kWh)

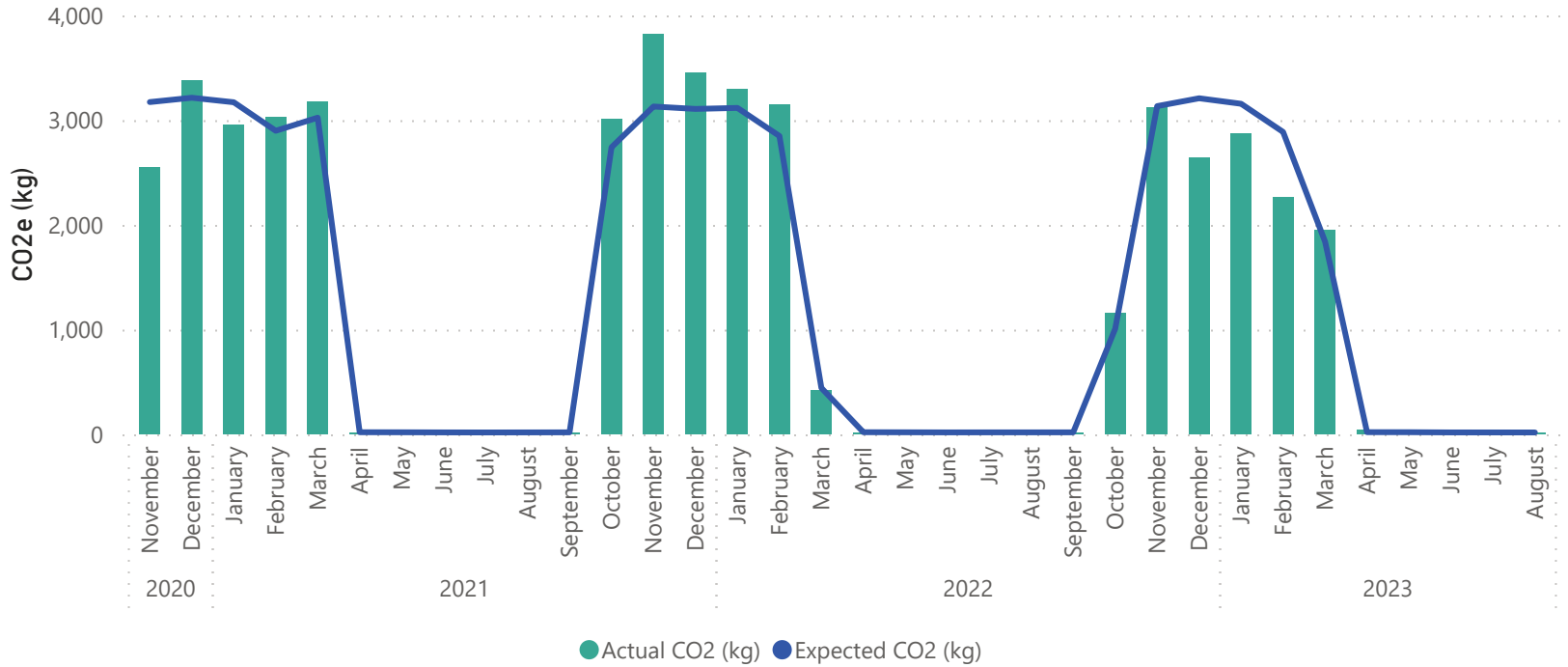


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

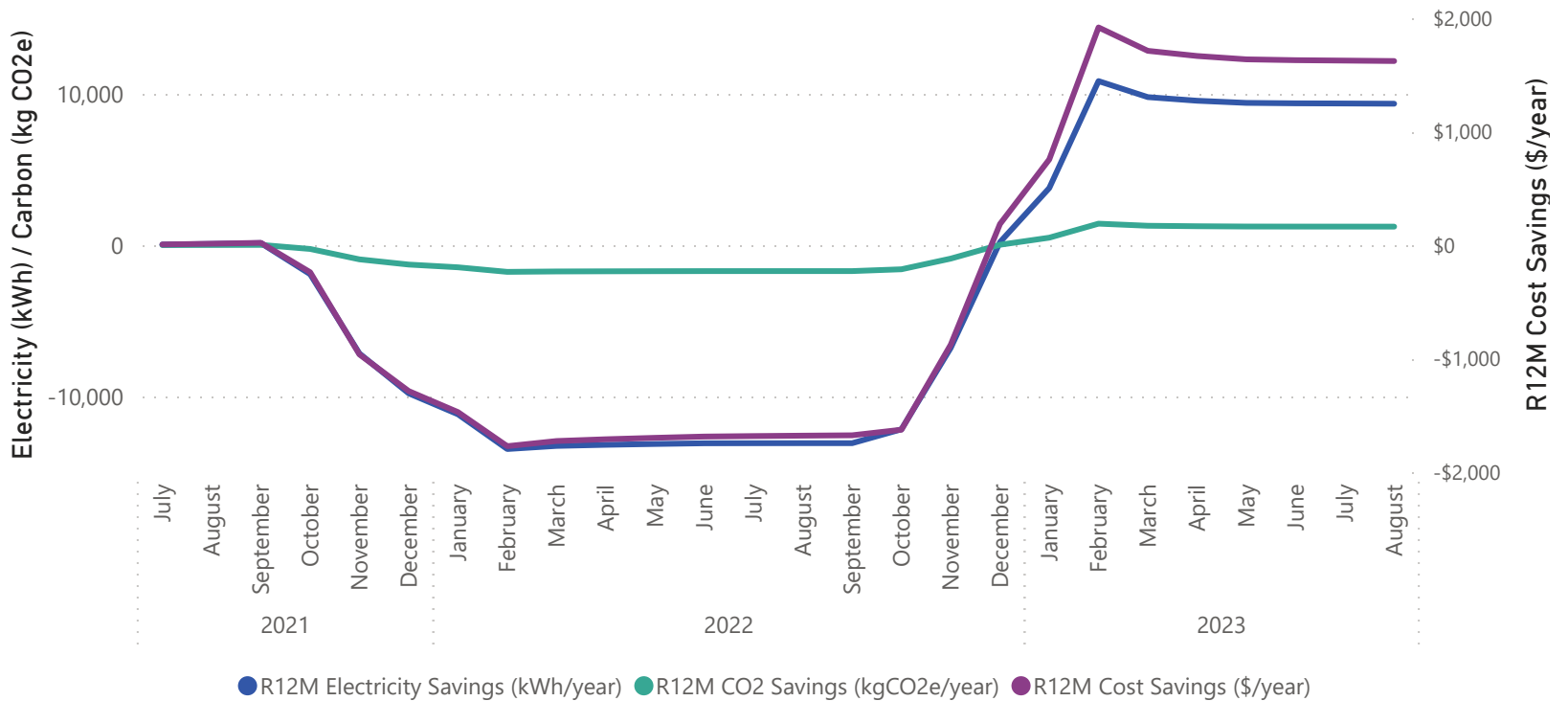
Whakatane District Council

Murupara Pools

Murupara Pools Carbon Emissions Compared to Baseline (kg CO2e)



Murupara Pools Rolling 12 Month Savings



Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**