

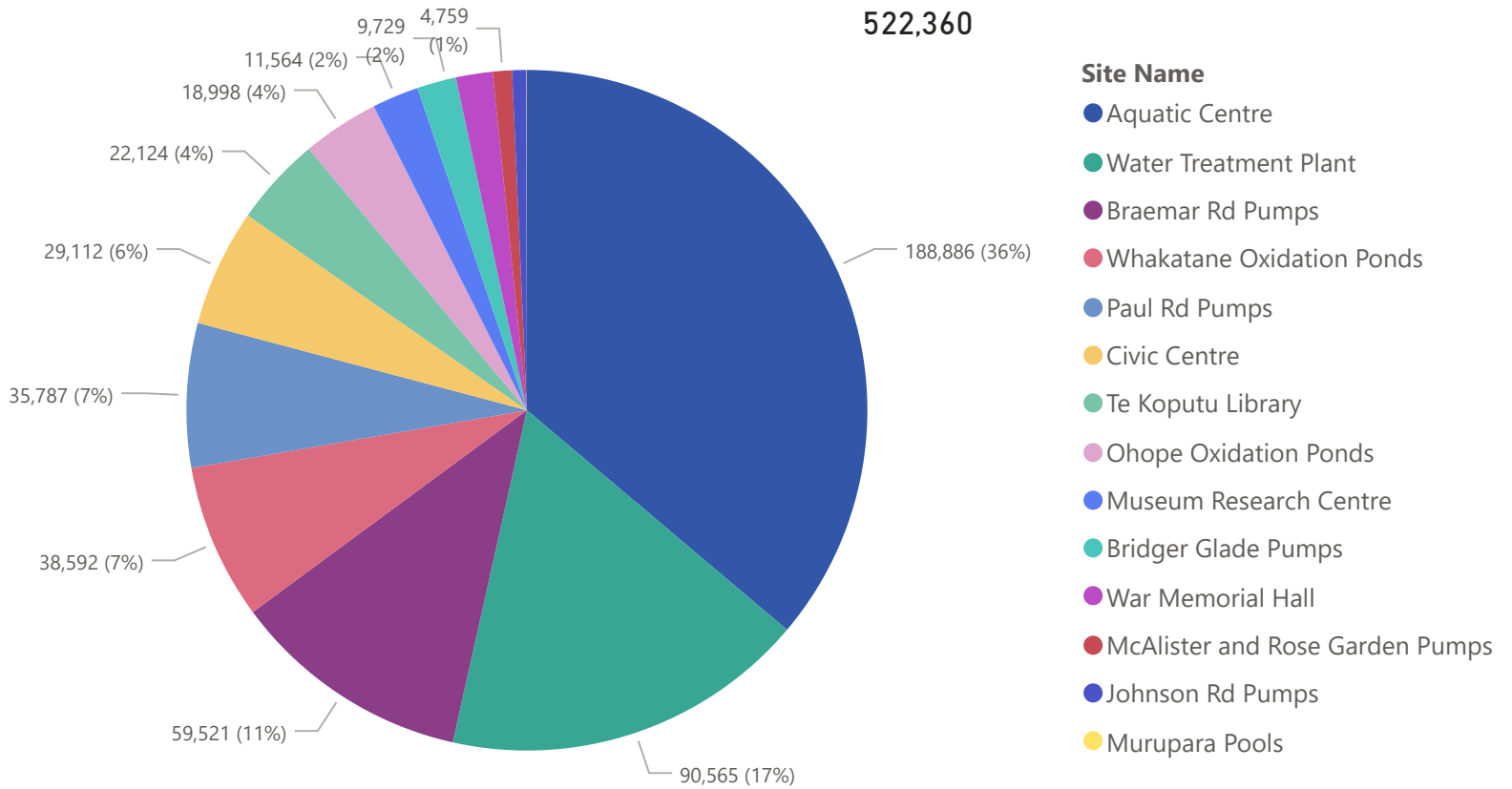
Whakatane District Council

Summary

<p>\$1,825</p> <p>Monthly Energy Cost Savings</p>	<p>28,435</p> <p>Elec. Savings (kWh/mo)</p>	<p>6%</p> <p>Elec. Savings (%)</p>	<p>589,065</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-4,609</p> <p>CO2e Savings (kg/mo)</p>
<p>\$100,446</p> <p>R12M Energy Cost Savings</p>	<p>-40,262</p> <p>Gas. Savings (kWh/mo)</p>	<p>-85%</p> <p>Gas. Savings (%)</p>	<p>-130,632</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>50,127</p> <p>R12M CO2e Savings (kg/yr)</p>

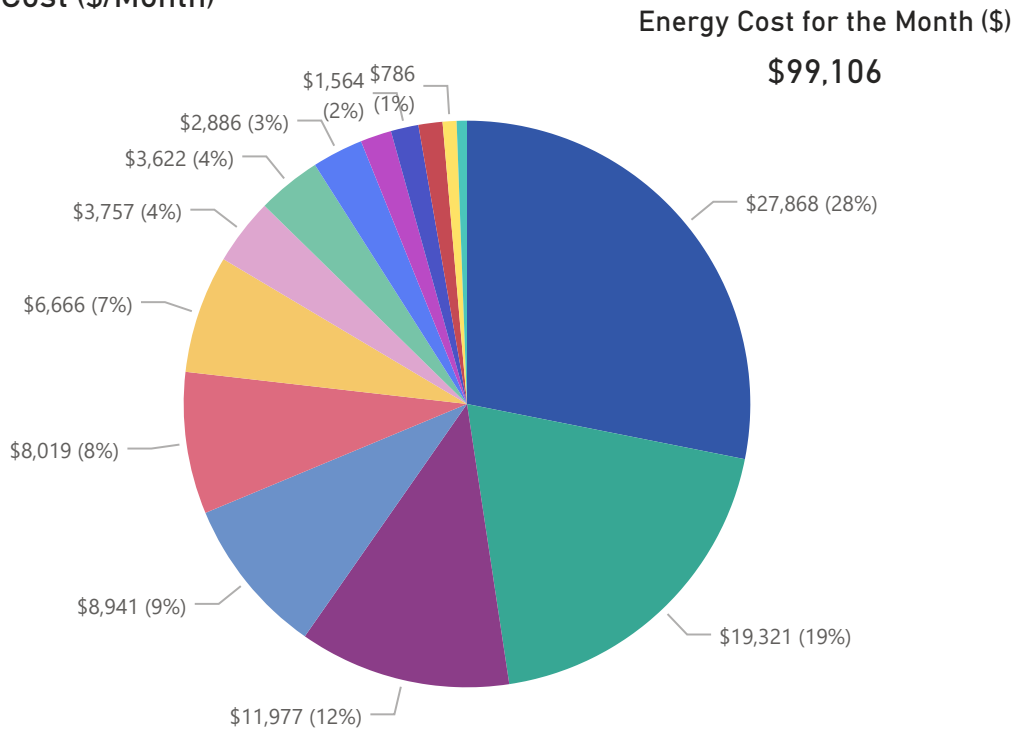
Total Energy (kWh/Month)

Total Energy Used for the Month (kWh)
522,360



Whakatane District Council Summary

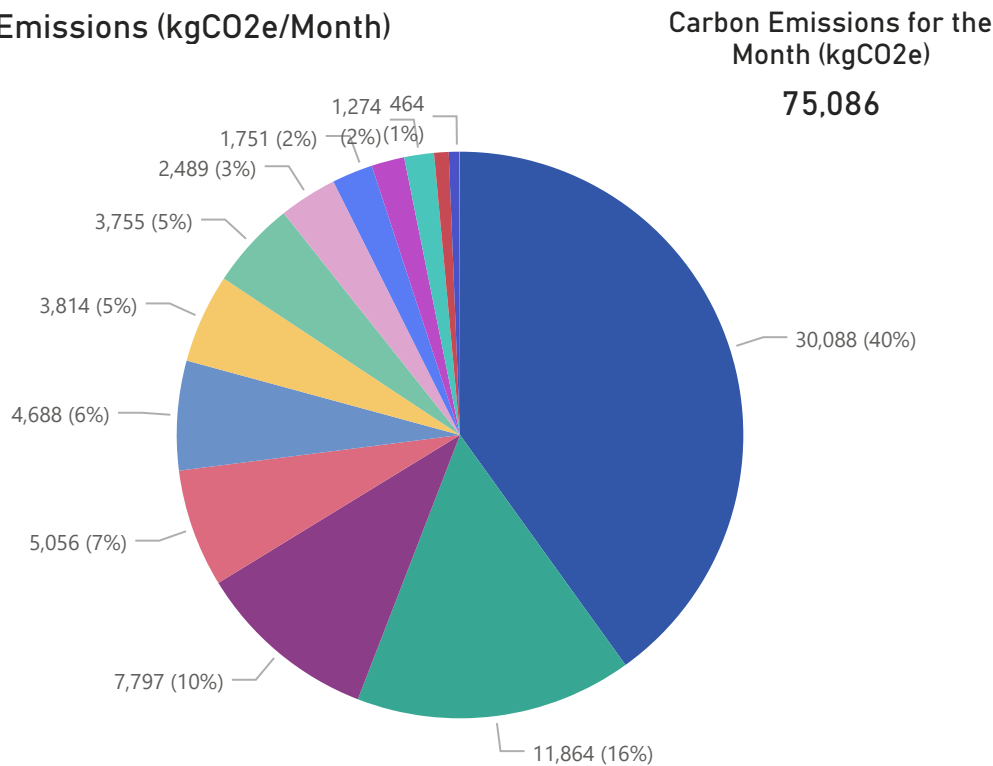
Energy Cost (\$/Month)



Site Name

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

Carbon Emissions (kgCO2e/Month)



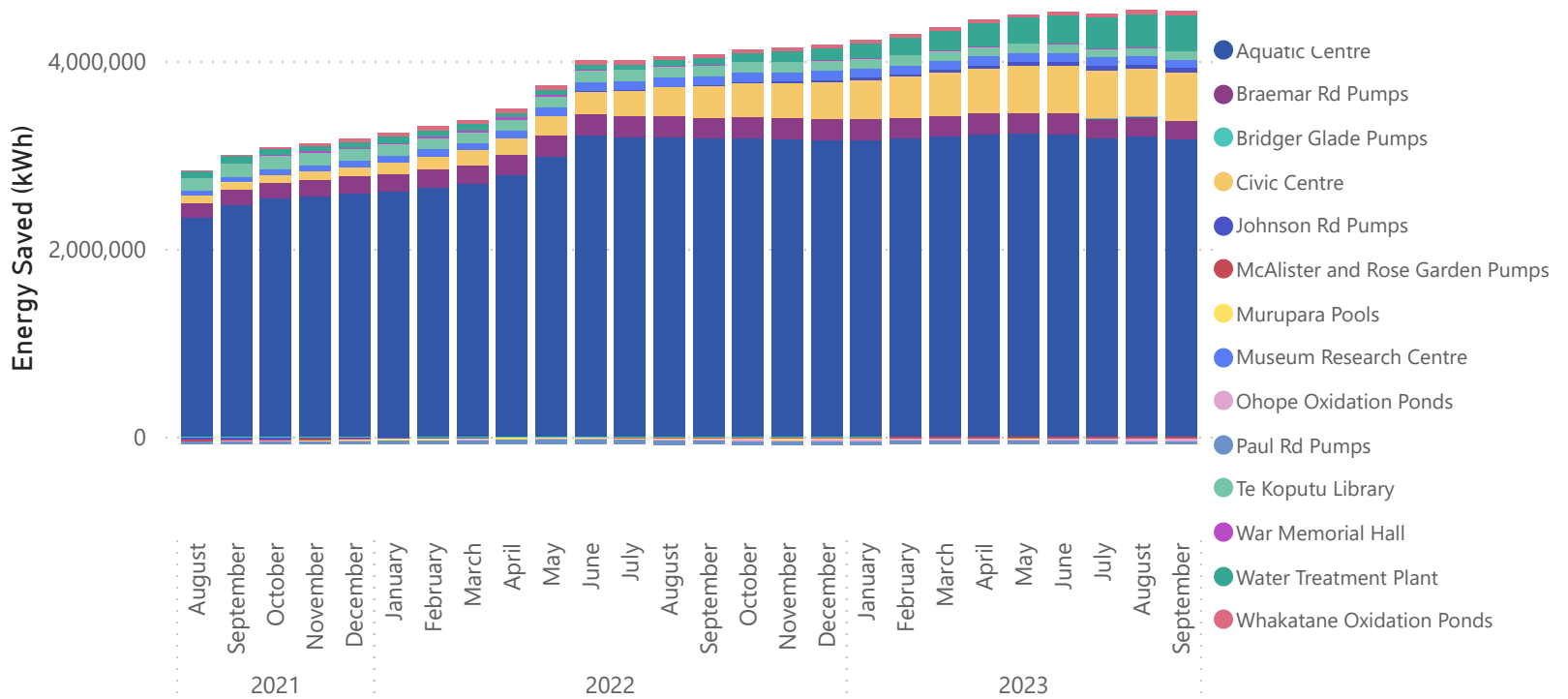
Site Name

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- Murupara Pools

Whakatane District Council

Summary

Cumulative Energy Savings (kWh)



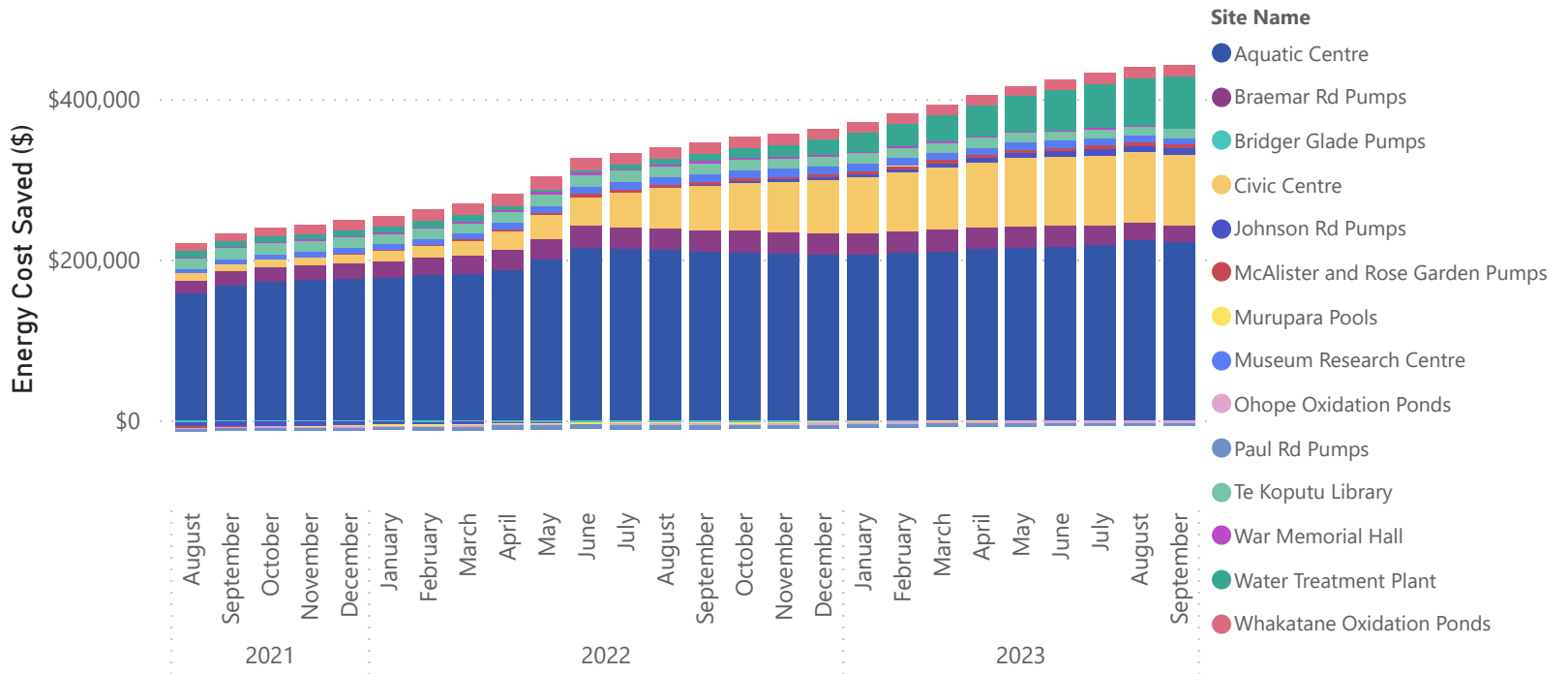
Note, cumulative savings are calculated starting July 2018

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

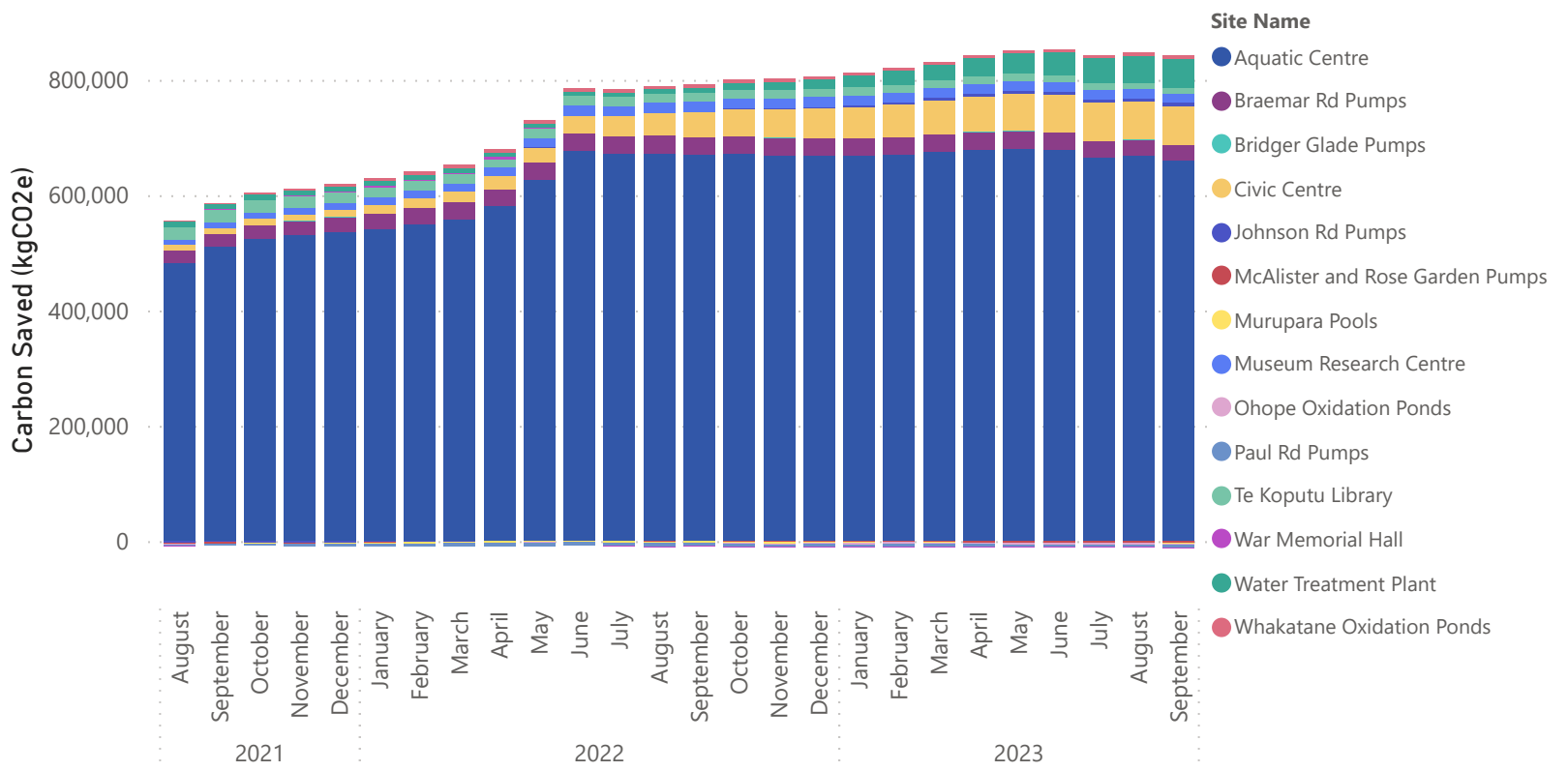
Summary

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 **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Civic Centre

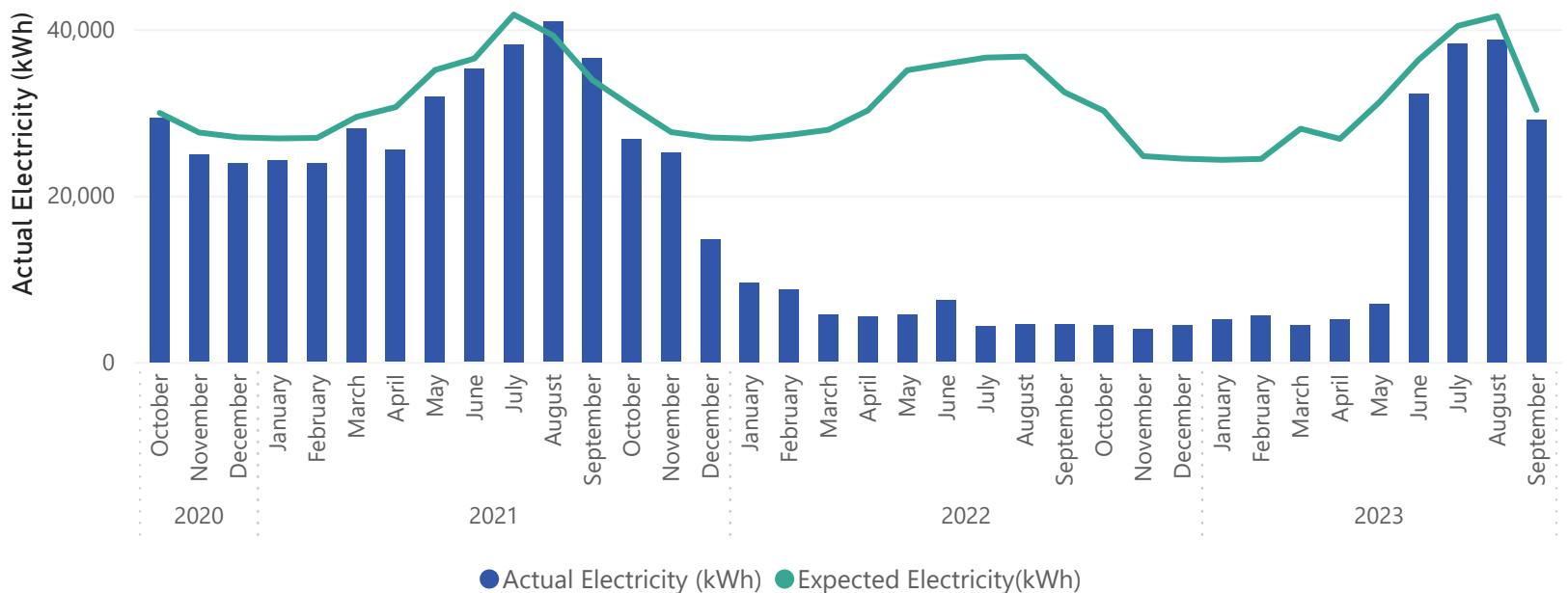
<p>\$202 Monthly Energy Cost Savings</p>	<p>1,181 Elec. Savings (kWh/mo)</p>	<p>4% Elec. Savings (%)</p>	<p>184,357 R12M Electricity Savings (kWh/yr)</p>	<p>155 CO2e Savings (kg/mo)</p>
<p>\$32,213 R12M Energy Cost Savings</p>				<p>24,151 R12M CO2e Savings (kg/yr)</p>

Comments:

The Civic Centre has returned to normal operation after ongoing refurbishments. It can be seen from TOU electricity that afterhours electricity decreased by approximately 10 kW between 9-21 September. During this time, electricity demand was flat over weekends. Compared to September 2021, peak demand has decreased by 20 kW on average. 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.

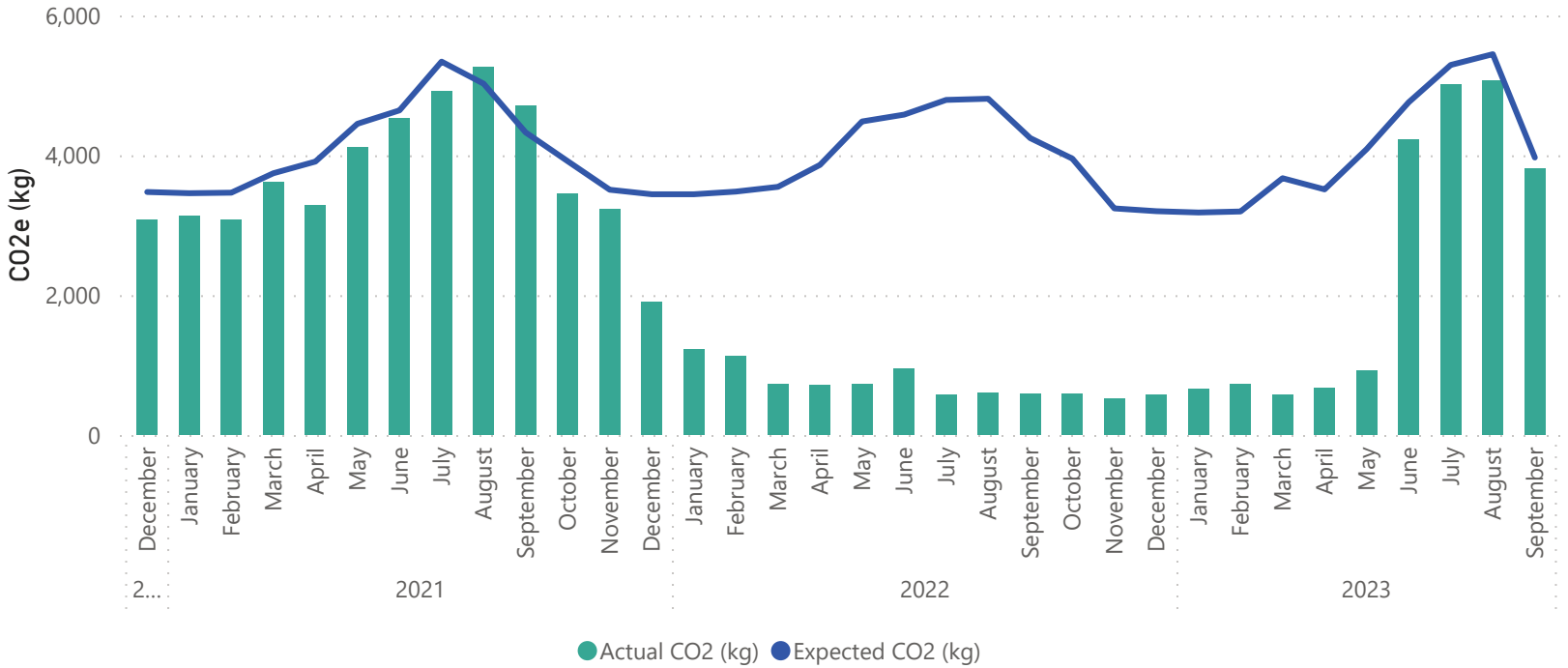
Civic Centre Electricity Use Compared to Baseline (kWh)



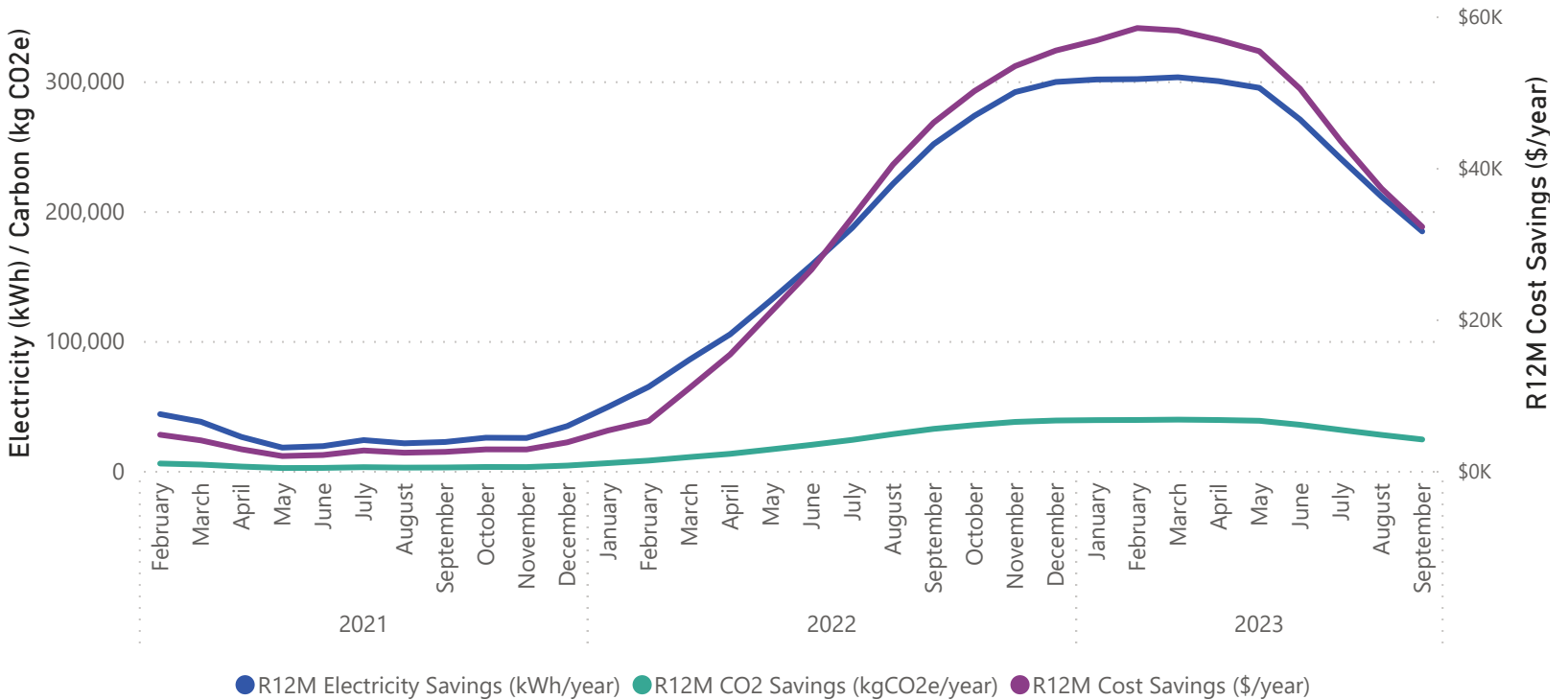
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Civic Centre

Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



Civic Centre Rolling 12 Month Savings

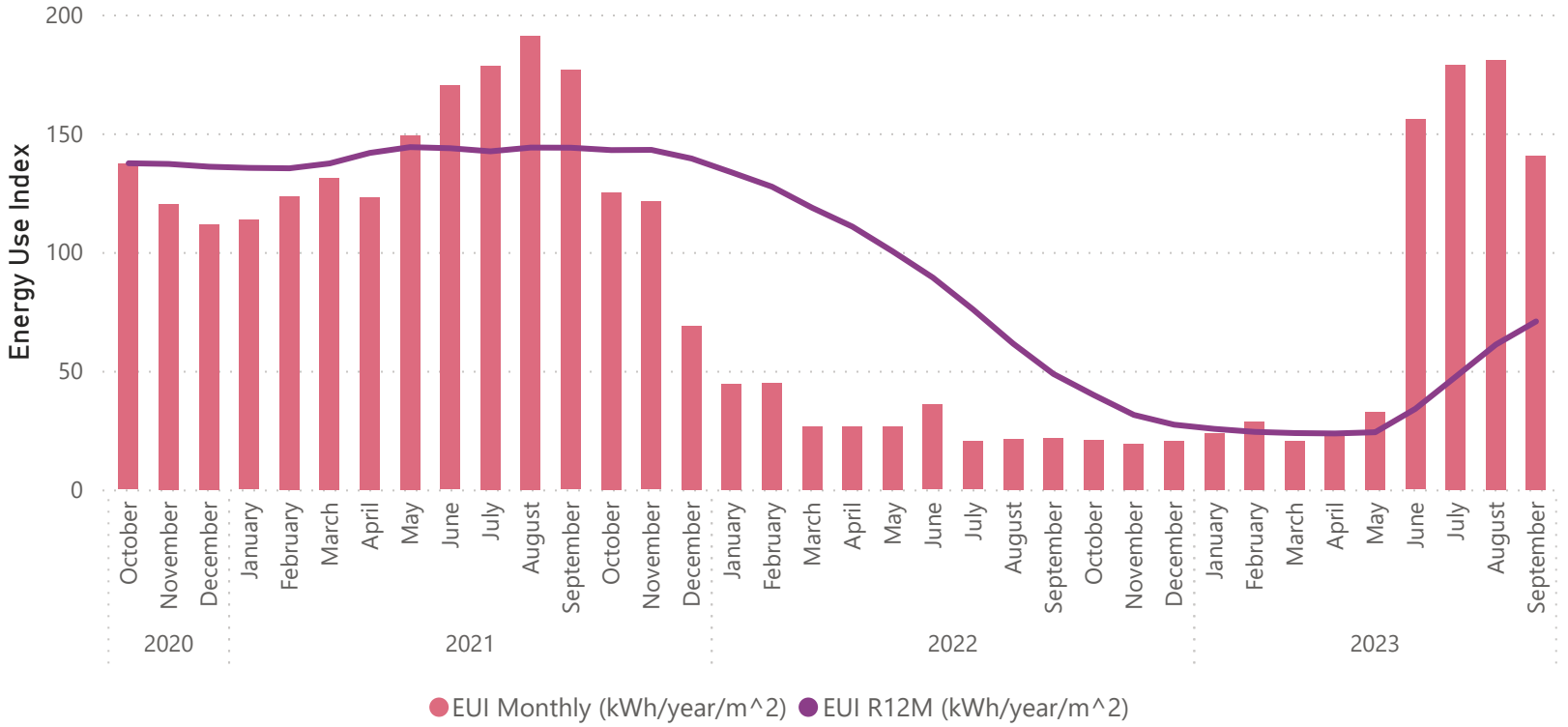


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Civic Centre

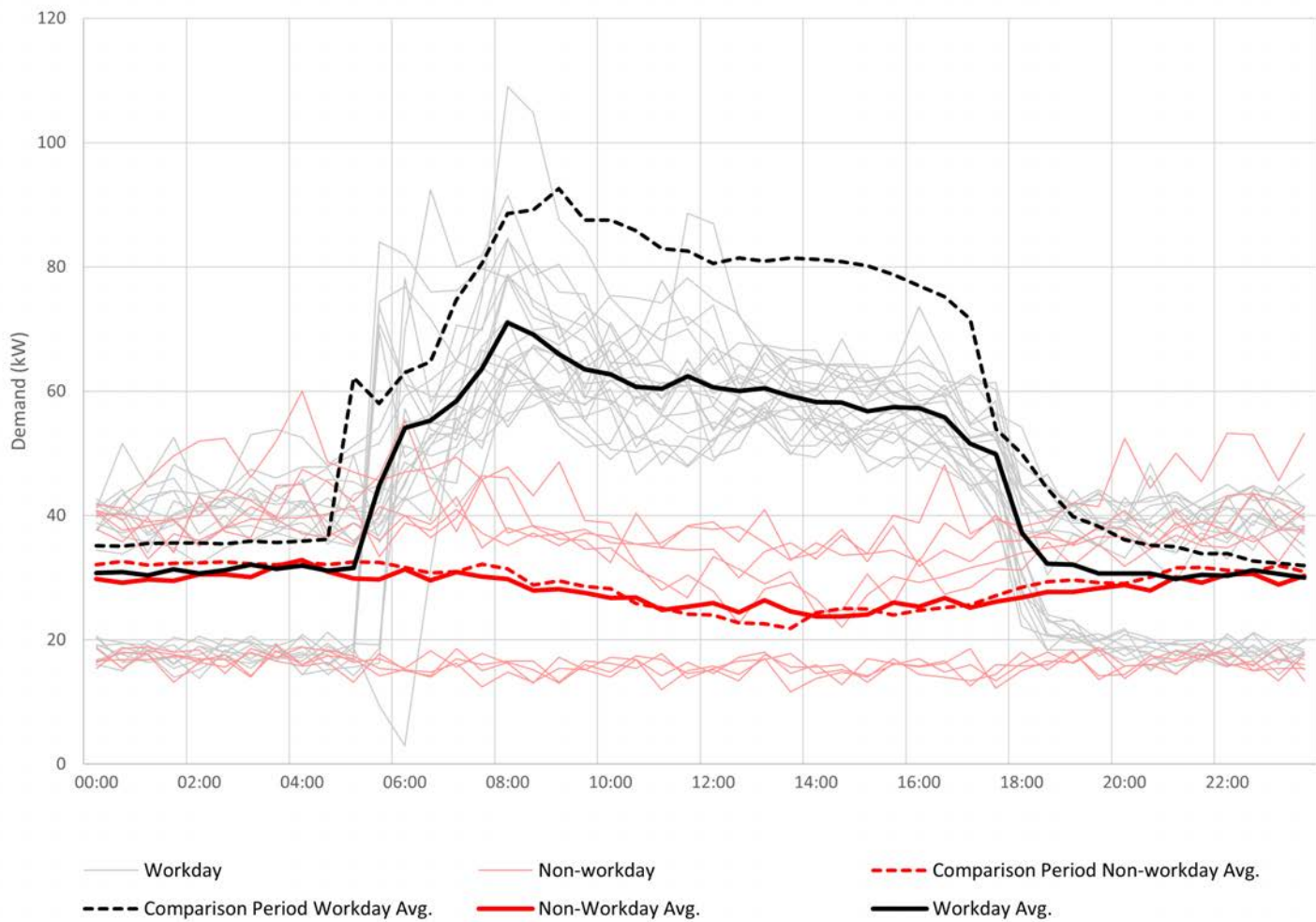
Civic Centre Energy Use Index by Month Compared to Rolling 12-Month Values



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
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Whakatane District Council Civic Centre

24hr Load Profiles 1/09/2023 - 30/09/2023 Compared to 1/09/2021 - 30/09/2021



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

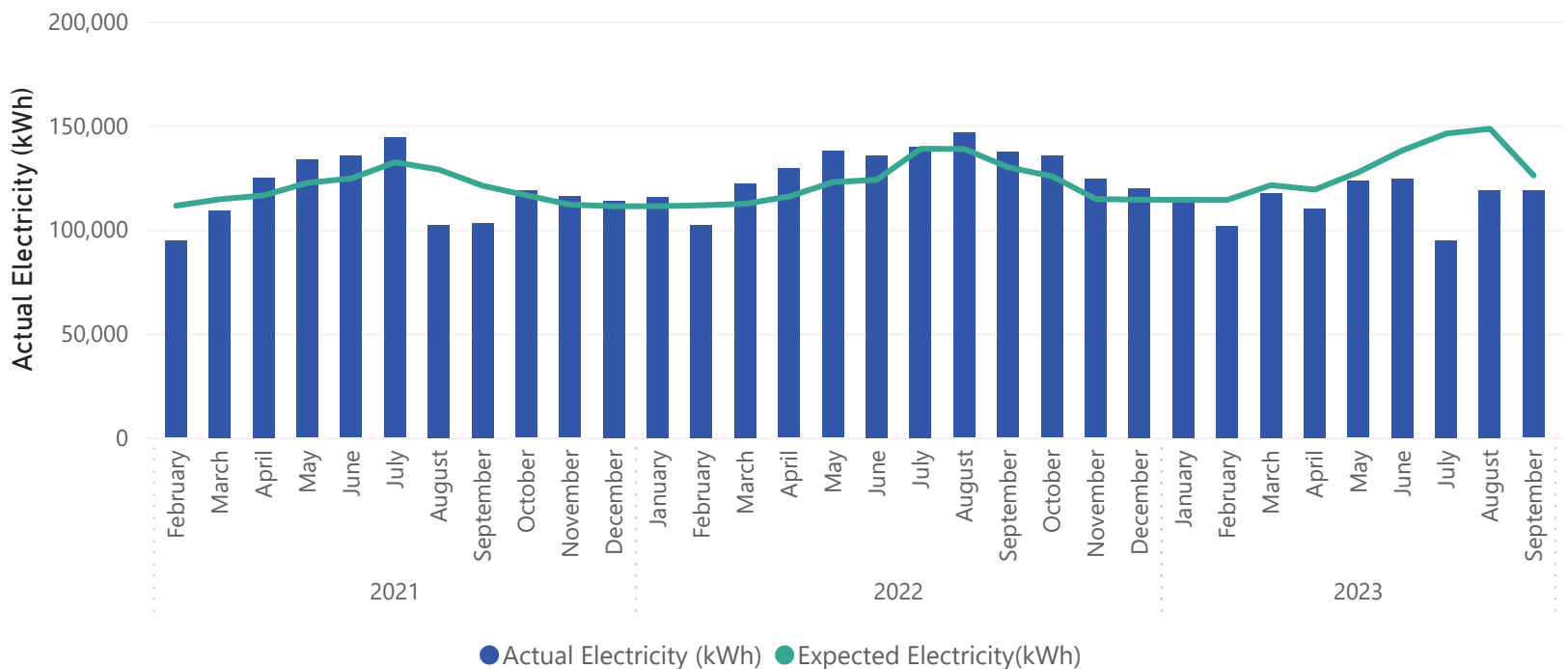
Aquatic Centre

<p>-\$1,863</p> <p>Monthly Energy Cost Savings</p>	<p>7,328 6% 105,576</p> <p>Elec. Savings (kWh/mo) Elec. Savings (%) R12M Electricity Savings (kWh/yr)</p>			<p>-7,100</p> <p>CO2e Savings (kg/mo)</p>
<p>\$11,668</p> <p>R12M Energy Cost Savings</p>	<p>-38,939 -124% -111,070</p> <p>Gas. Savings (kWh/mo) Gas. Savings (%) R12M Gas Savings (kWh/yr)</p>			<p>-9,161</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was less than baseline in September 2023 and gas was more than twice as much than expected. The Aquatic Centre has been using the gas boilers as a temporary solution while heat pump and plant equipment are being repaired and redeveloped. The EUI for the month is higher than average over the past 12 months, 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)

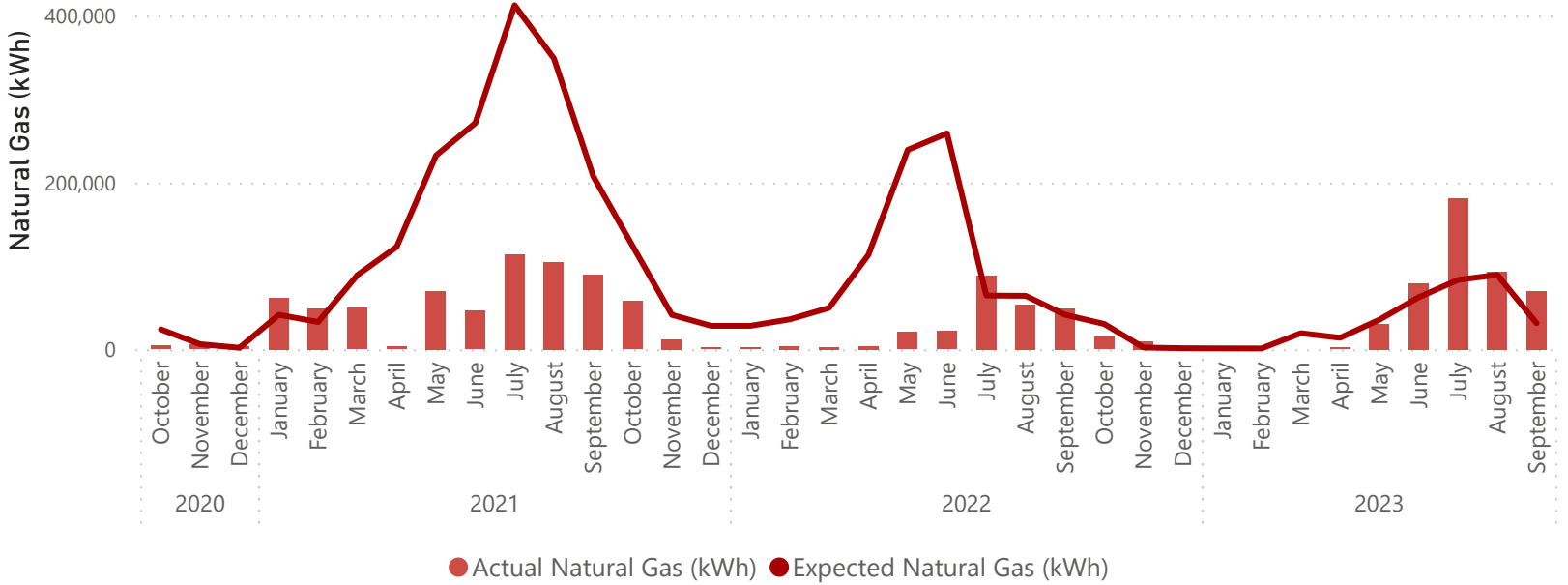


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

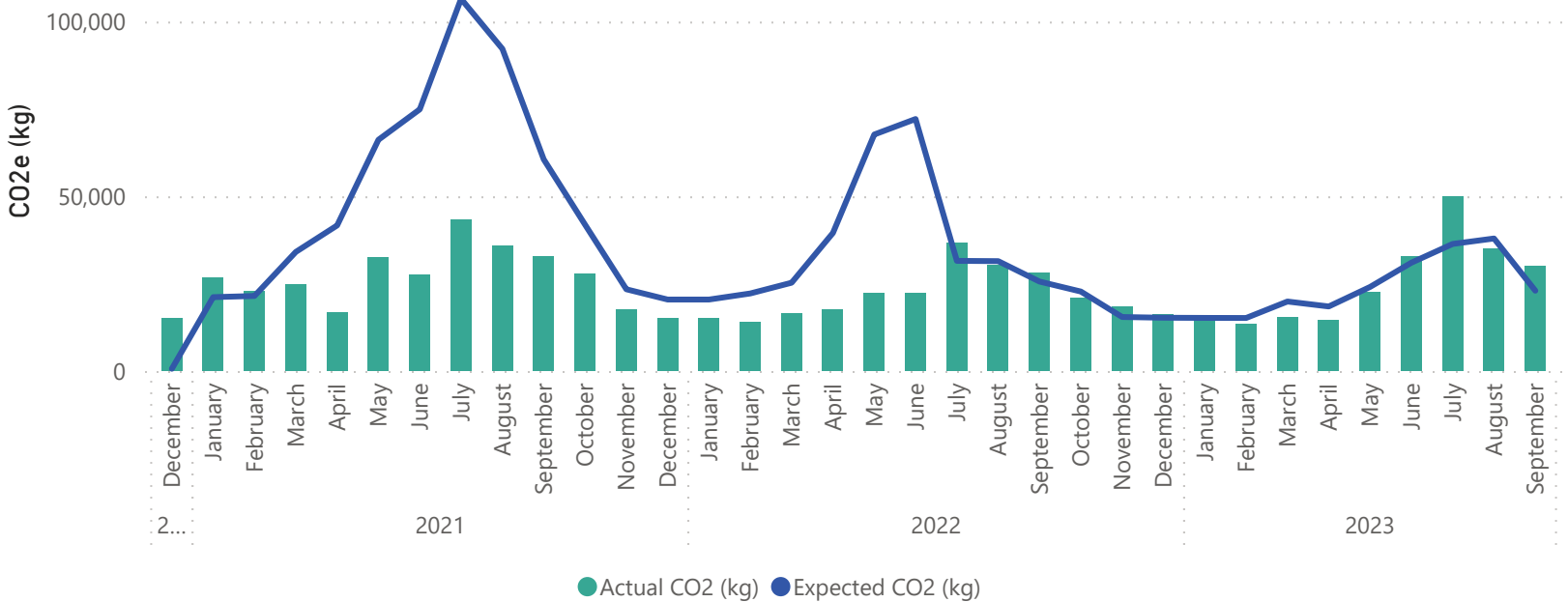
Whakatane District Council

Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

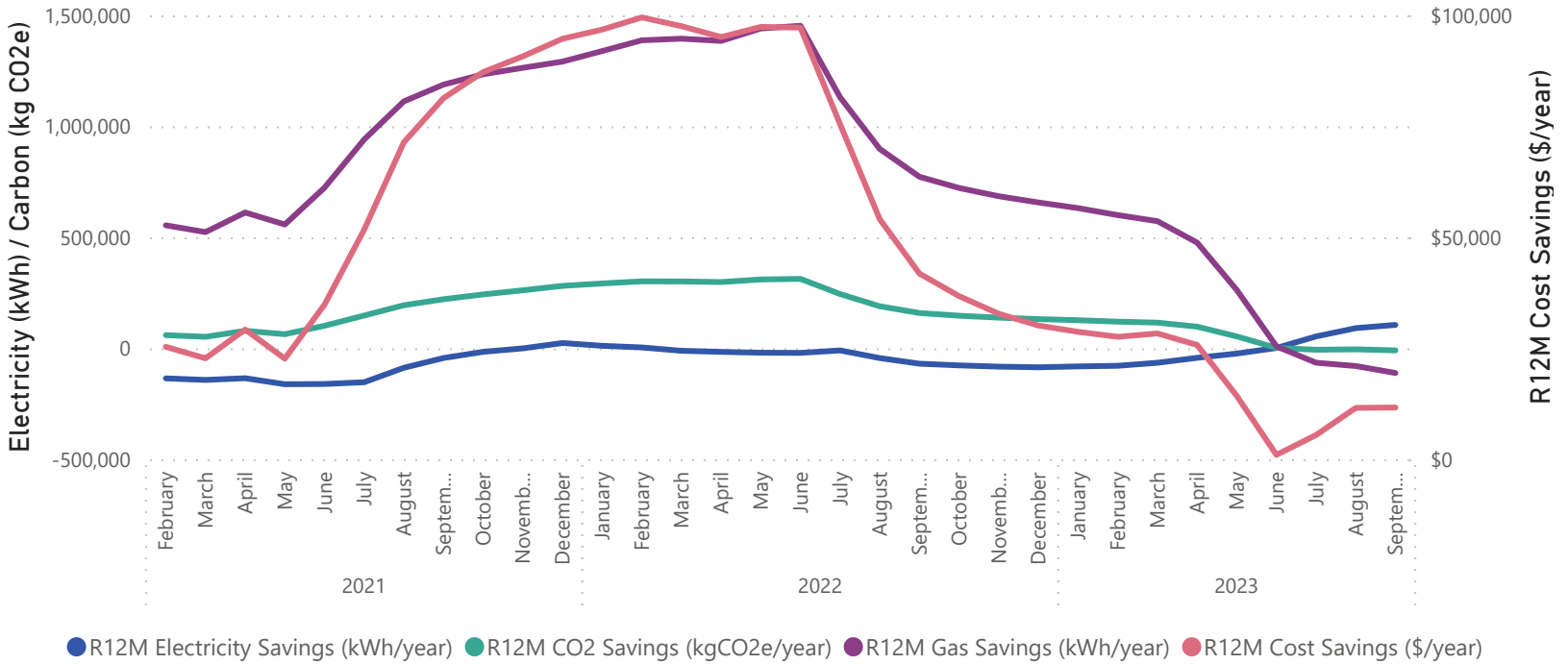


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

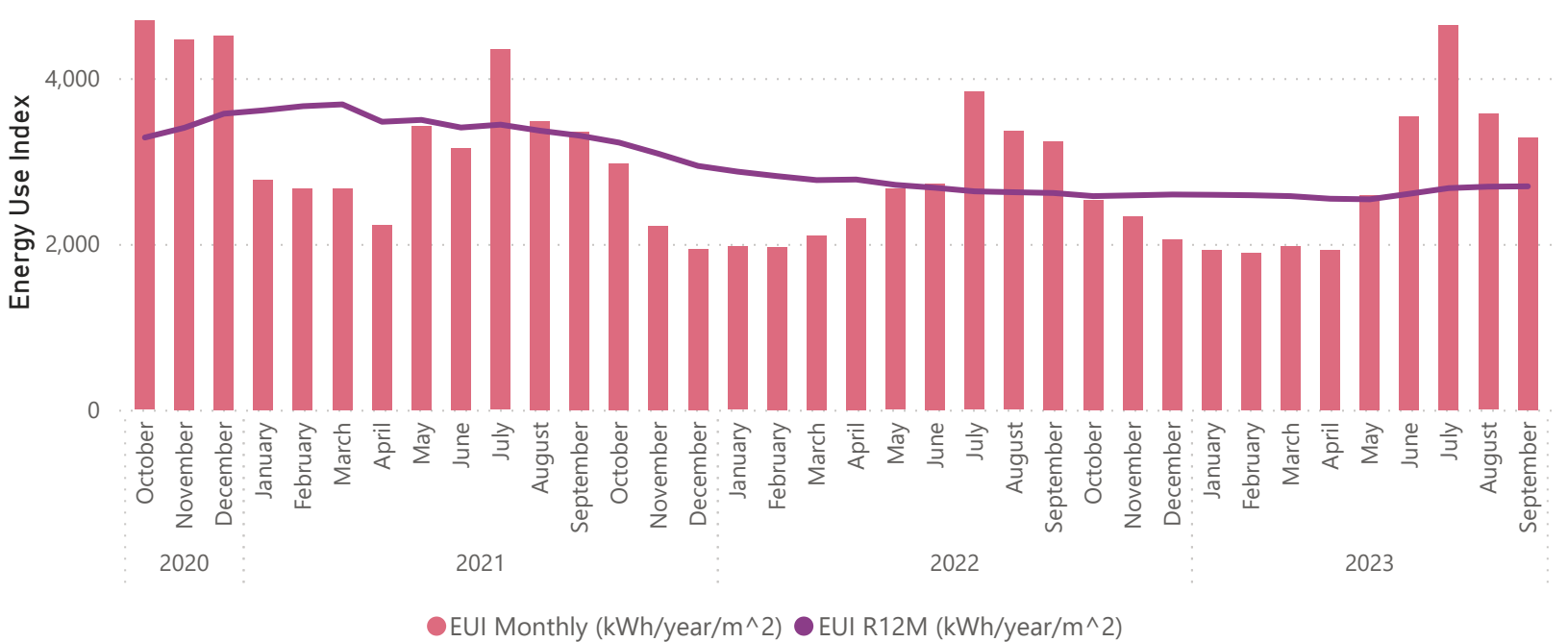
Whakatane District Council

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

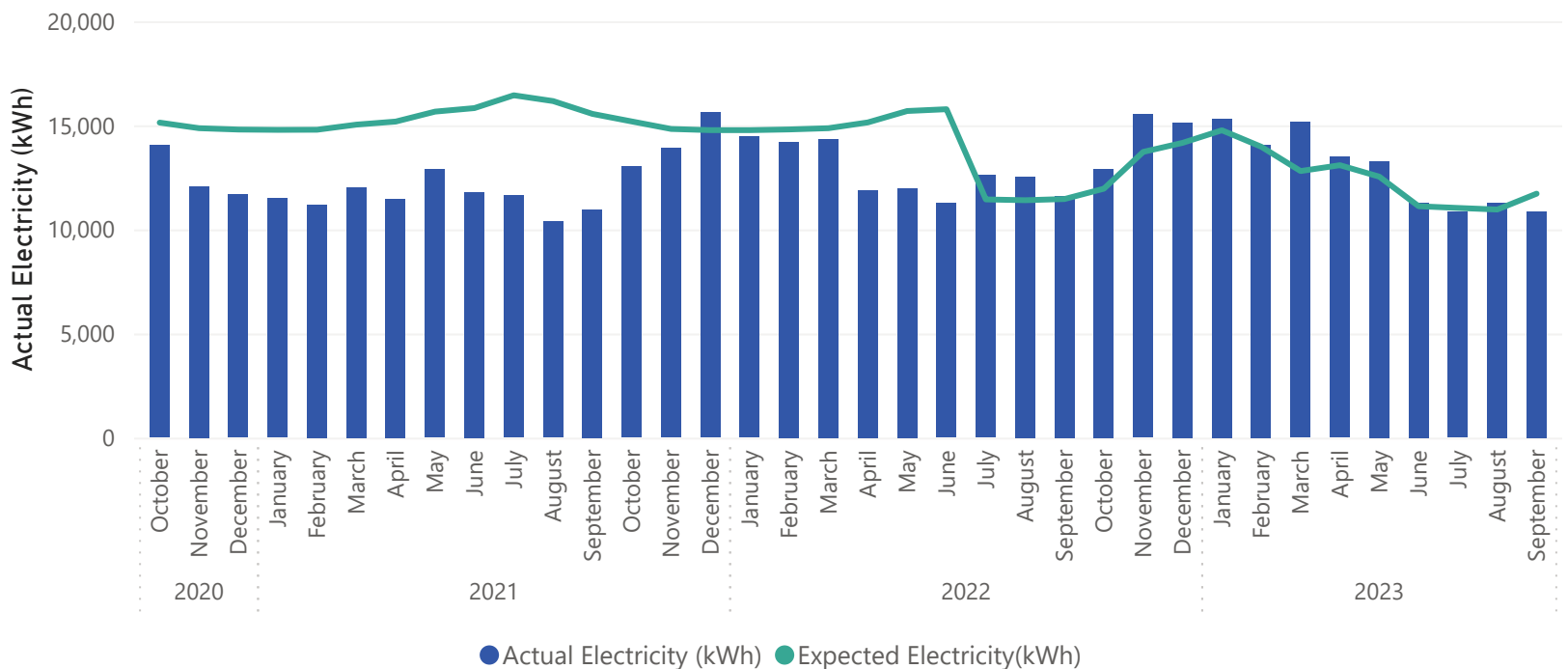
<p>\$72</p> <p>Monthly Energy Cost Savings</p>	<p>866</p> <p>Elec. Savings (kWh/mo)</p>	<p>7%</p> <p>Elec. Savings (%)</p>	<p>-7,291</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-85</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$2,666</p> <p>R12M Energy Cost Savings</p>	<p>-959</p> <p>Gas. Savings (kWh/mo)</p>	<p>-9%</p> <p>Gas. Savings (%)</p>	<p>-16,986</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-4,471</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was less than expected for the month, natural gas use was more than expected. Natural gas use has decreased compared to recent months, however is still above baseline.

The Library's EUI for the month is less than average compared to the last 12 months, which is good.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

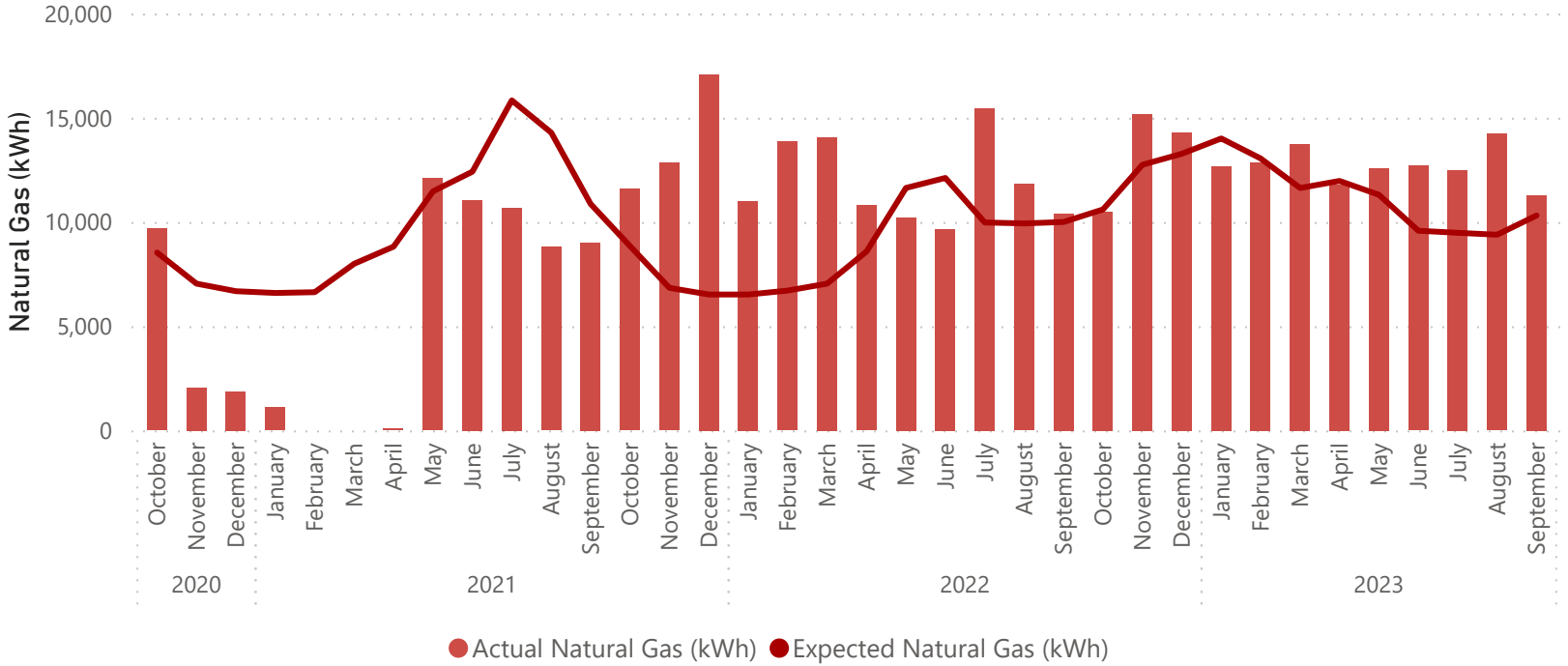


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

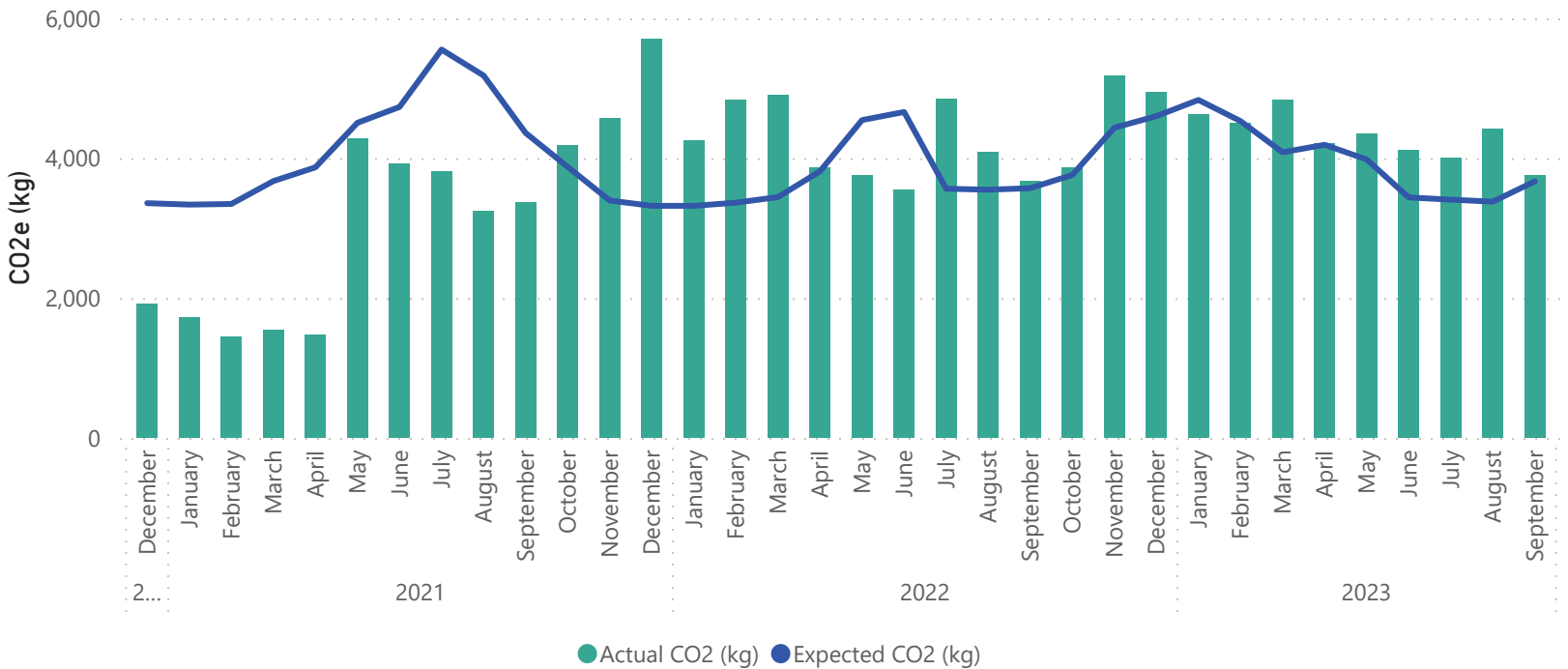
Whakatane District Council

Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



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

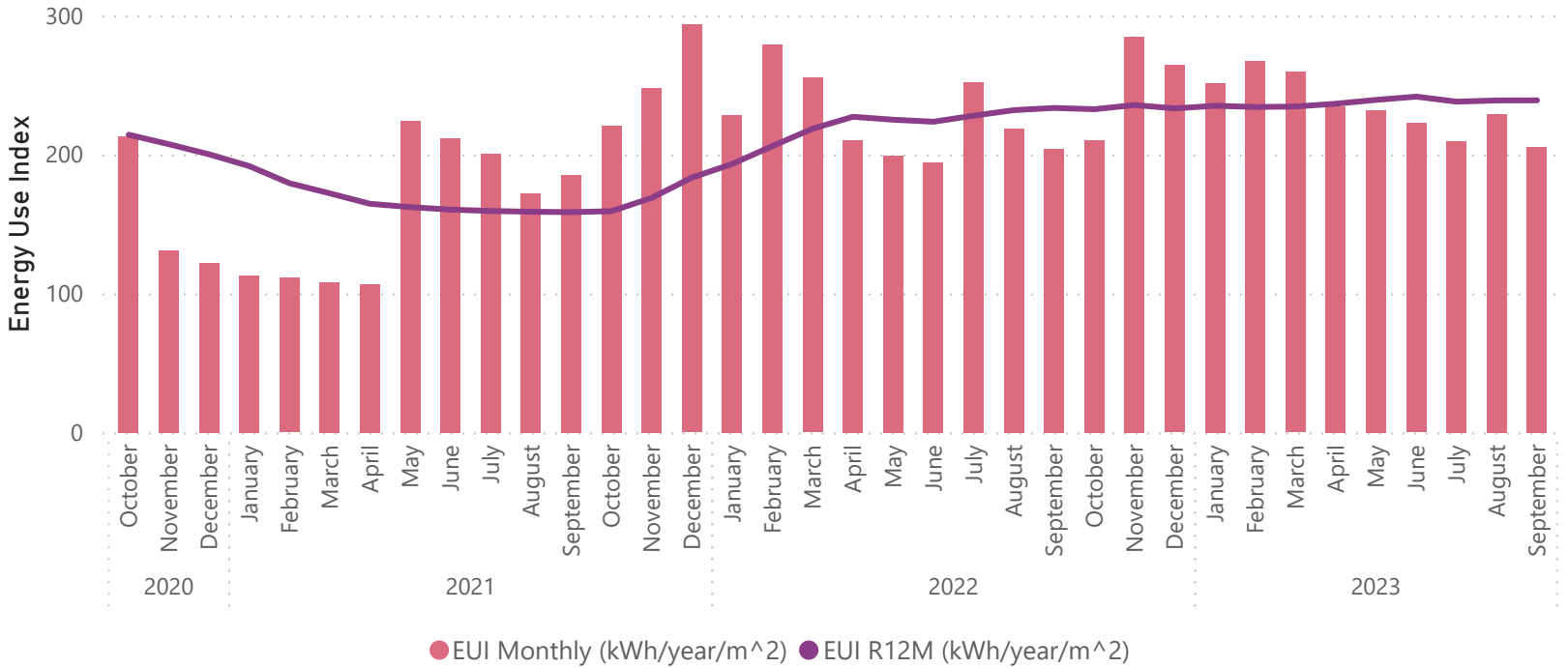


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

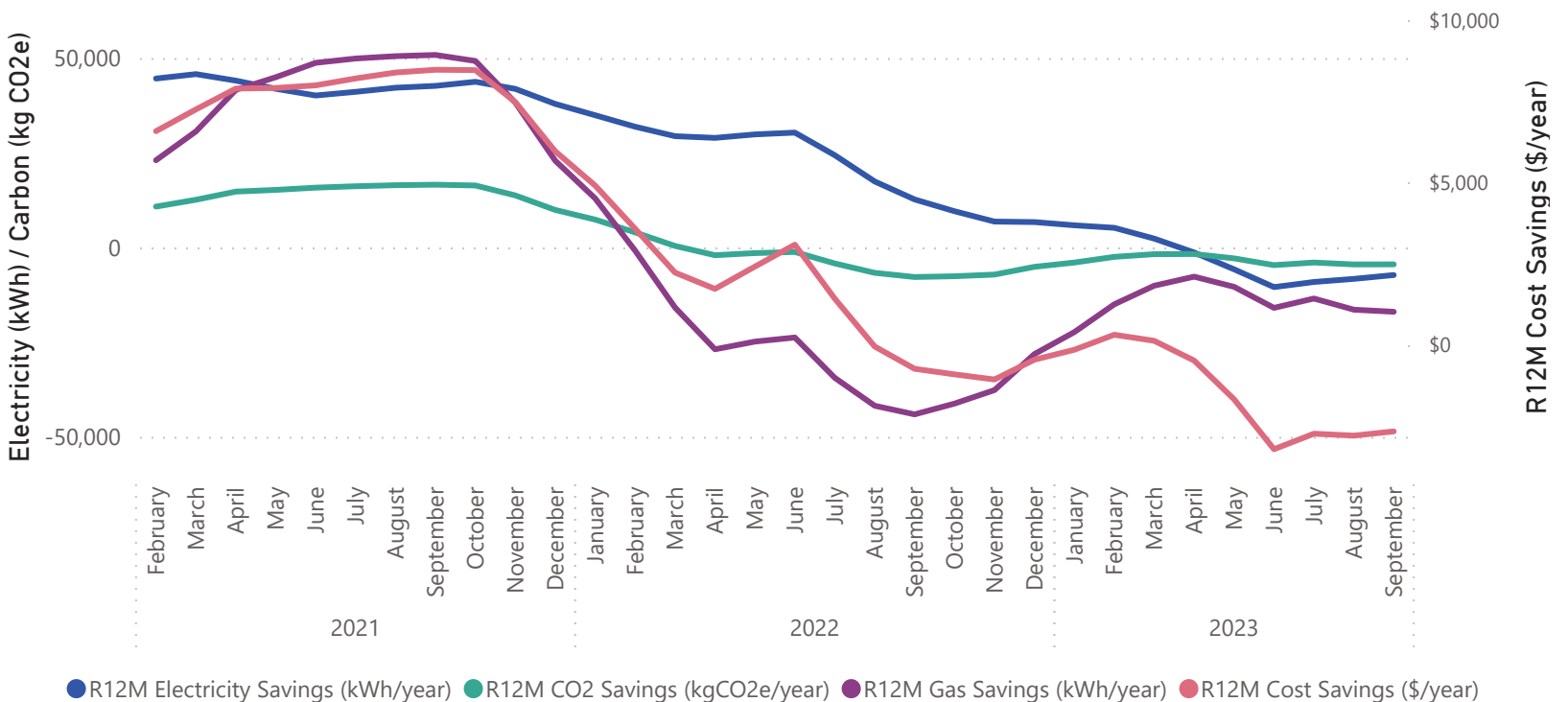
Whakatane District Council

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

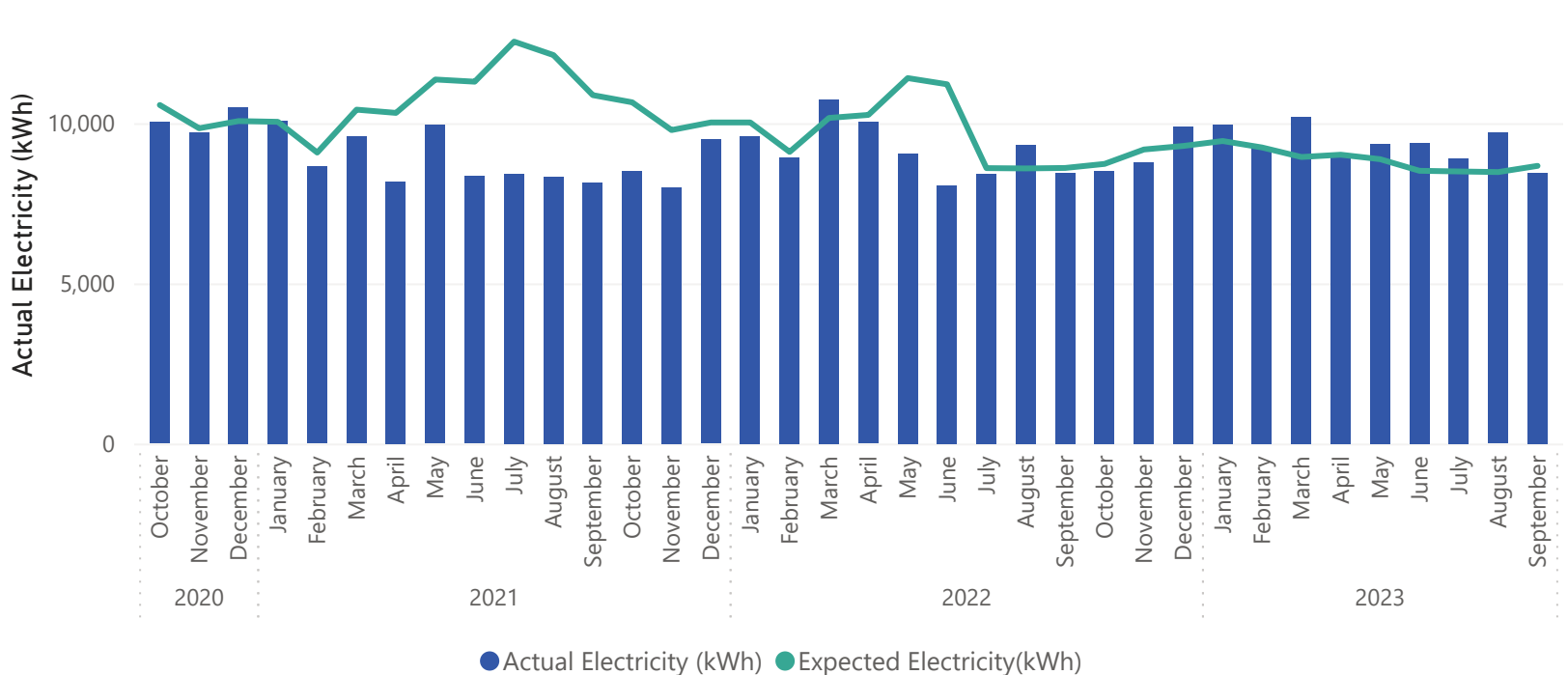
Museum and Research Centre

<p>\$21</p> <p>Monthly Energy Cost Savings</p>	<p>212</p> <p>Elec. Savings (kWh/mo)</p>	<p>2%</p> <p>Elec. Savings (%)</p>	<p>-4,432</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-13</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$1,243</p> <p>R12M Energy Cost Savings</p>	<p>-198</p> <p>Gas. Savings (kWh/mo)</p>	<p>-7%</p> <p>Gas. Savings (%)</p>	<p>-4,916</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-1,598</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Natural gas use was 7% more than expected and electricity use was 2% less than expected. Natural gas use has decreased compared to recent months, which is expected as the days are warmer on average. September 2023 is the first month since December 2022 where the EUI is less than average compared to the past 12 months, which is good.

Museum Research Centre Electricity Use Compared to Baseline (kWh)

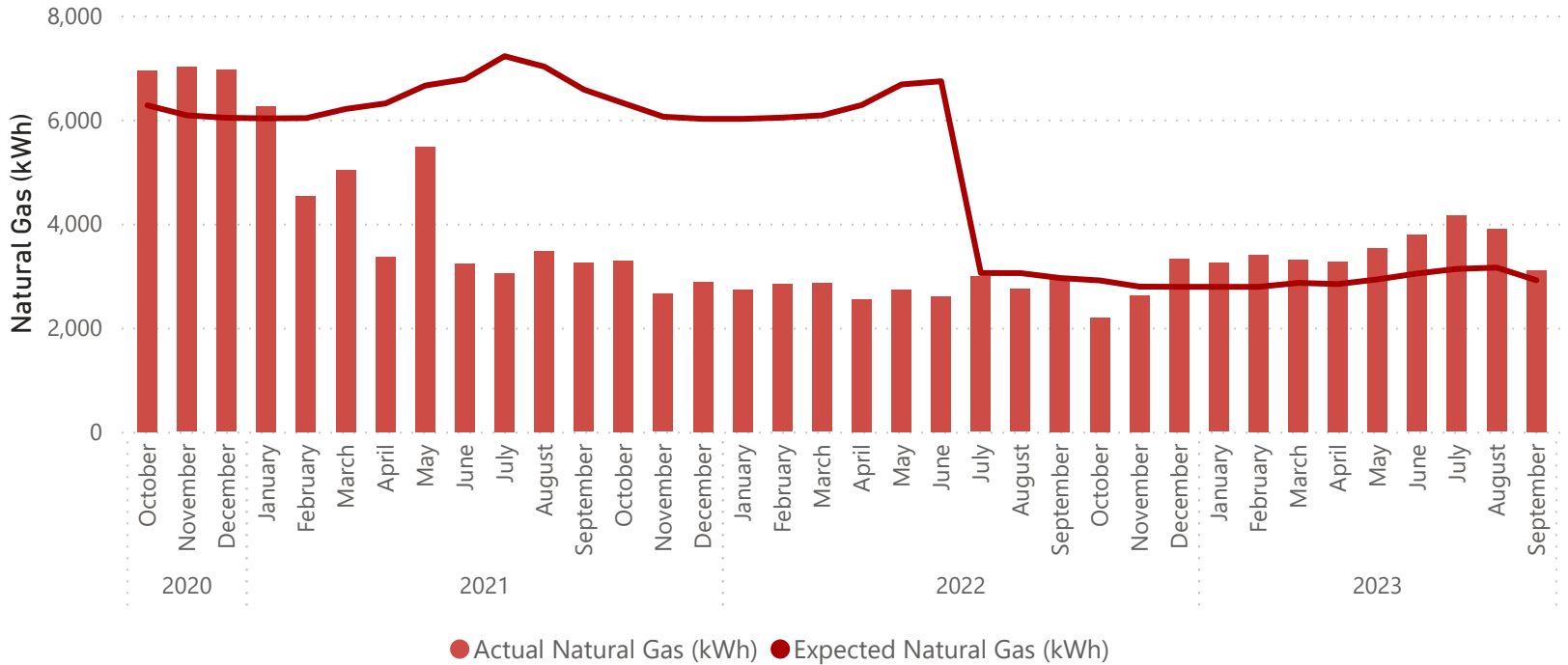


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

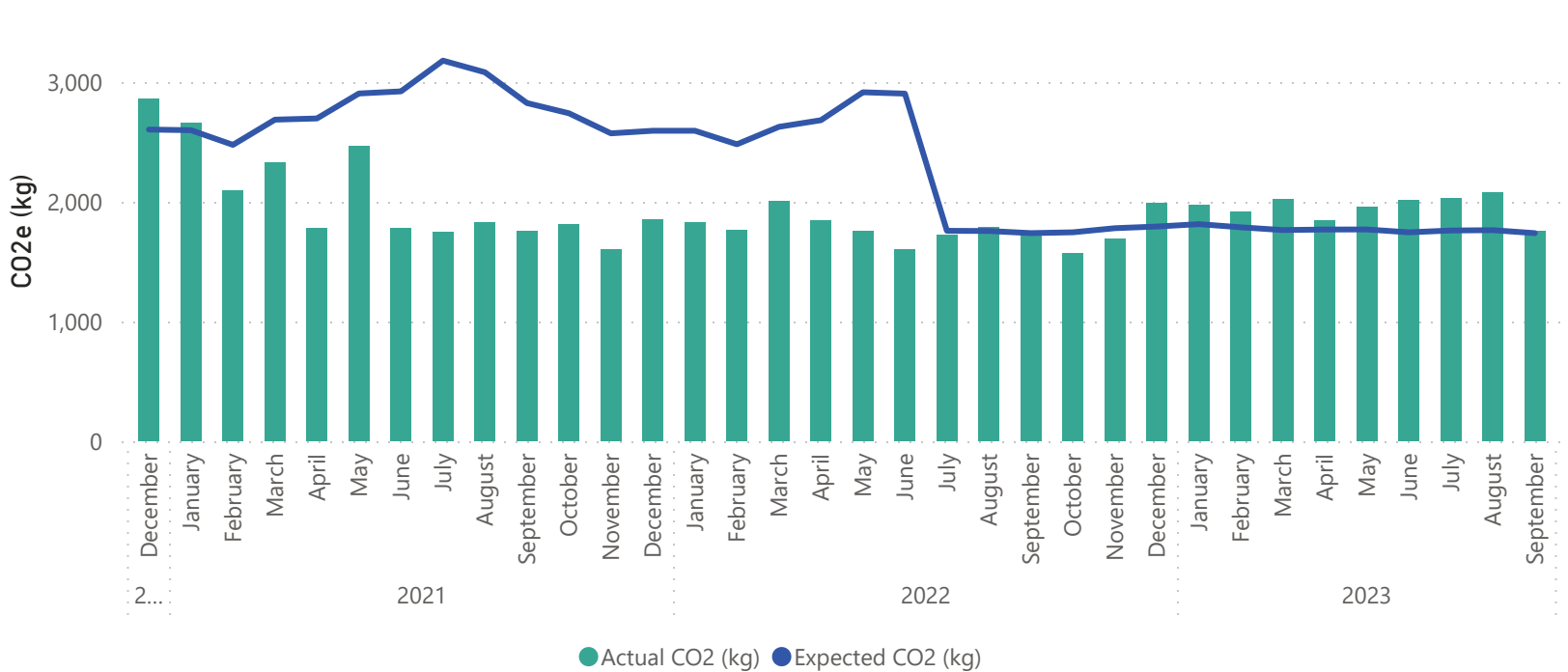
Whakatane District Council

Museum and Research Centre

Museum Research Centre Natural Gas Compared to Baseline (kWh)



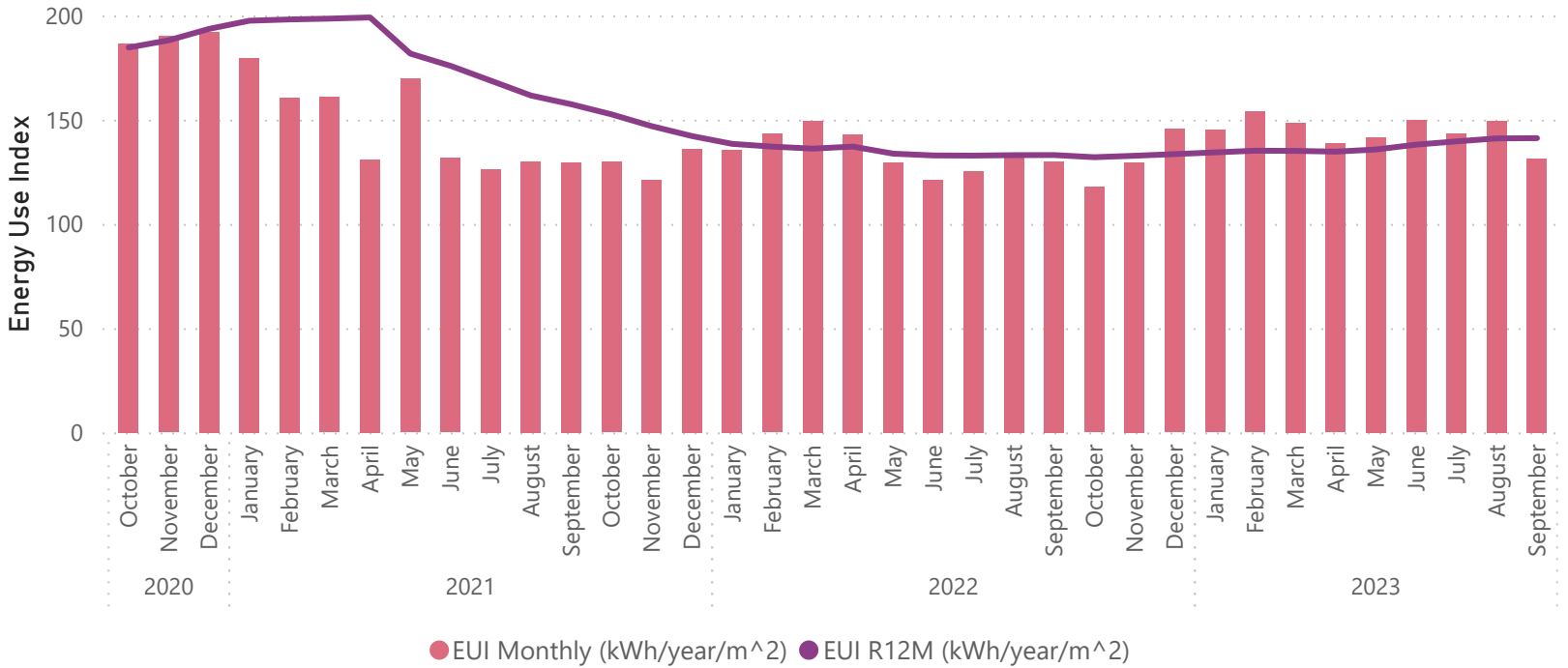
Museum Research Centre Carbon Emissions Compared to Baseline (kg CO2e)



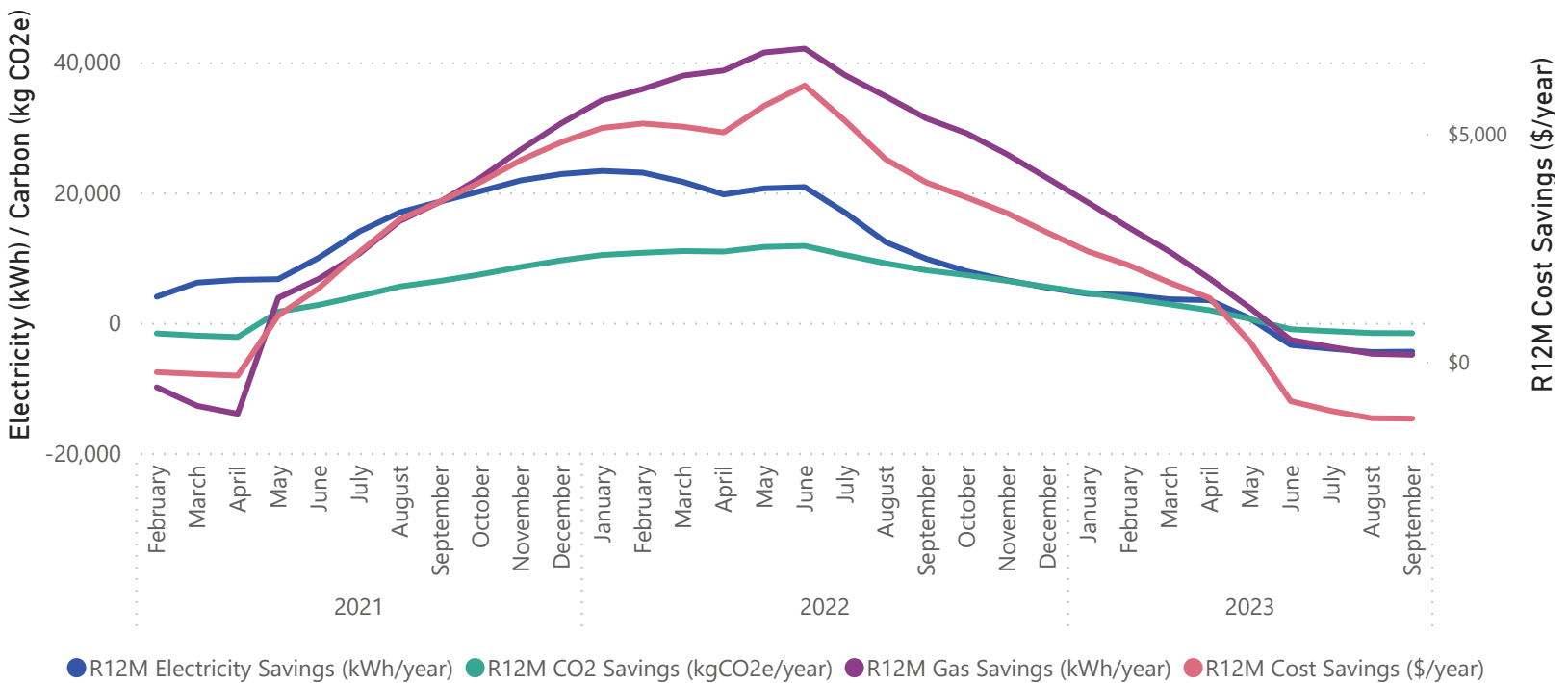
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

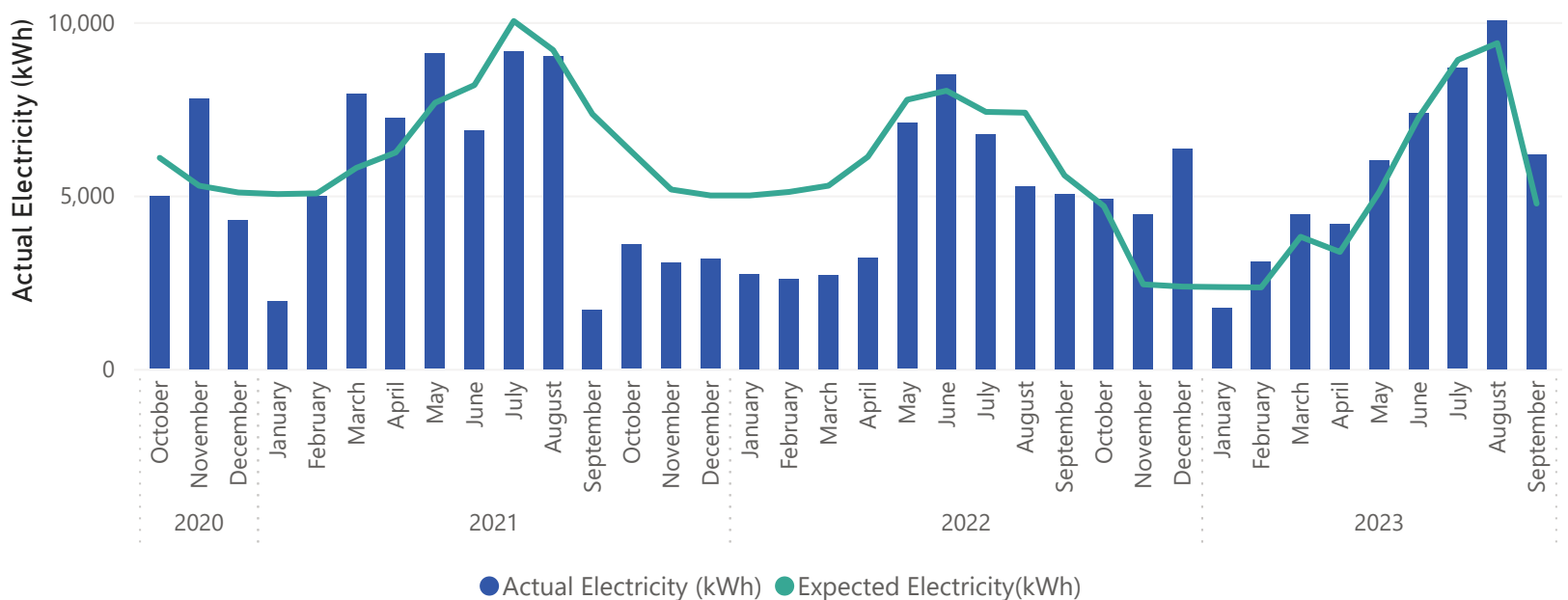
<p>-\$258 Monthly Energy Cost Savings</p>	<p>-1,427 Elec. Savings (kWh/mo)</p>	<p>-30% Elec. Savings (%)</p>	<p>-10,713 R12M Electricity Savings (kWh/yr)</p>	<p>-221 CO2e Savings (kg/mo)</p>
<p>-\$1,717 R12M Energy Cost Savings</p>	<p>-166 Gas. Savings (kWh/mo)</p>	<p>-6% Gas. Savings (%)</p>	<p>2,340 R12M Gas Savings (kWh/yr)</p>	<p>-919 R12M CO2e Savings (kg/yr)</p>

Comments:

The War Memorial Hall used 30% more electricity than expected. Ten of the past 12 months have used more electricity than expected.

The hall has used more natural gas than expected in September. Natural gas use has decreased compared to August and July. The 2023 winter season has used less natural gas than the 2022 winter season, which is good.

War Memorial Hall Electricity Use Compared to Baseline (kWh)

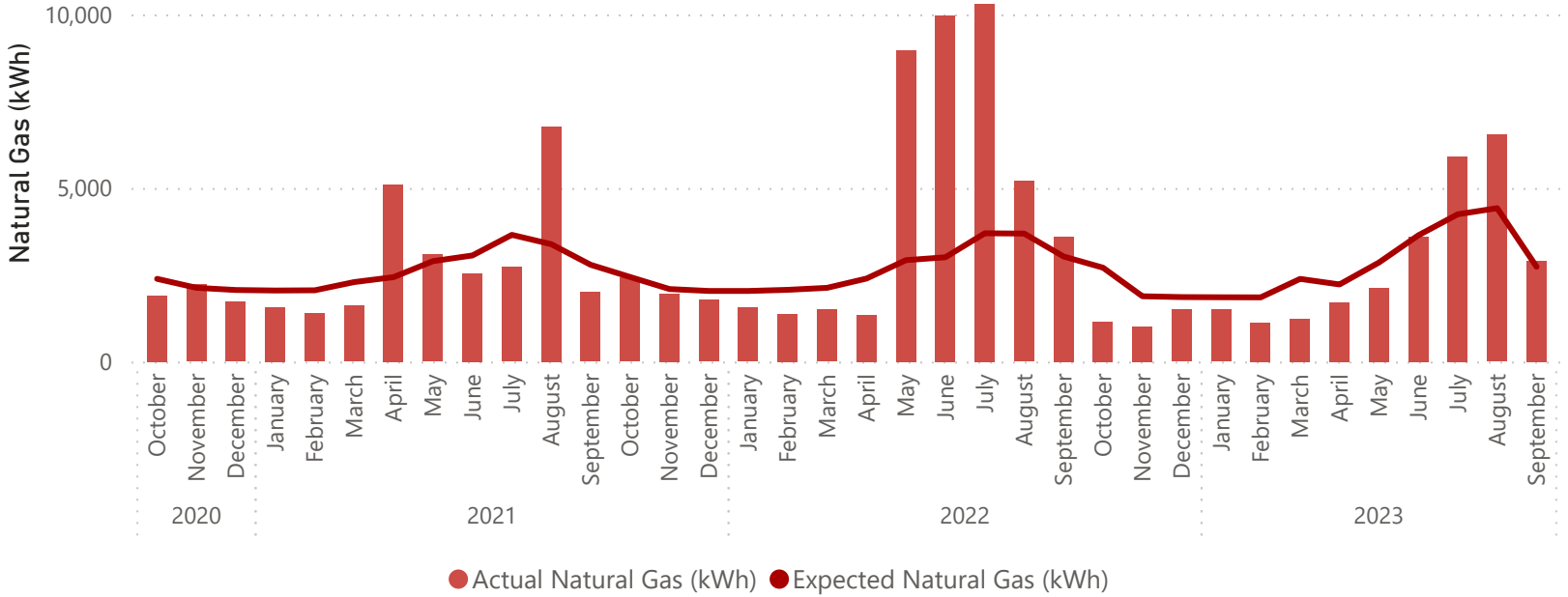


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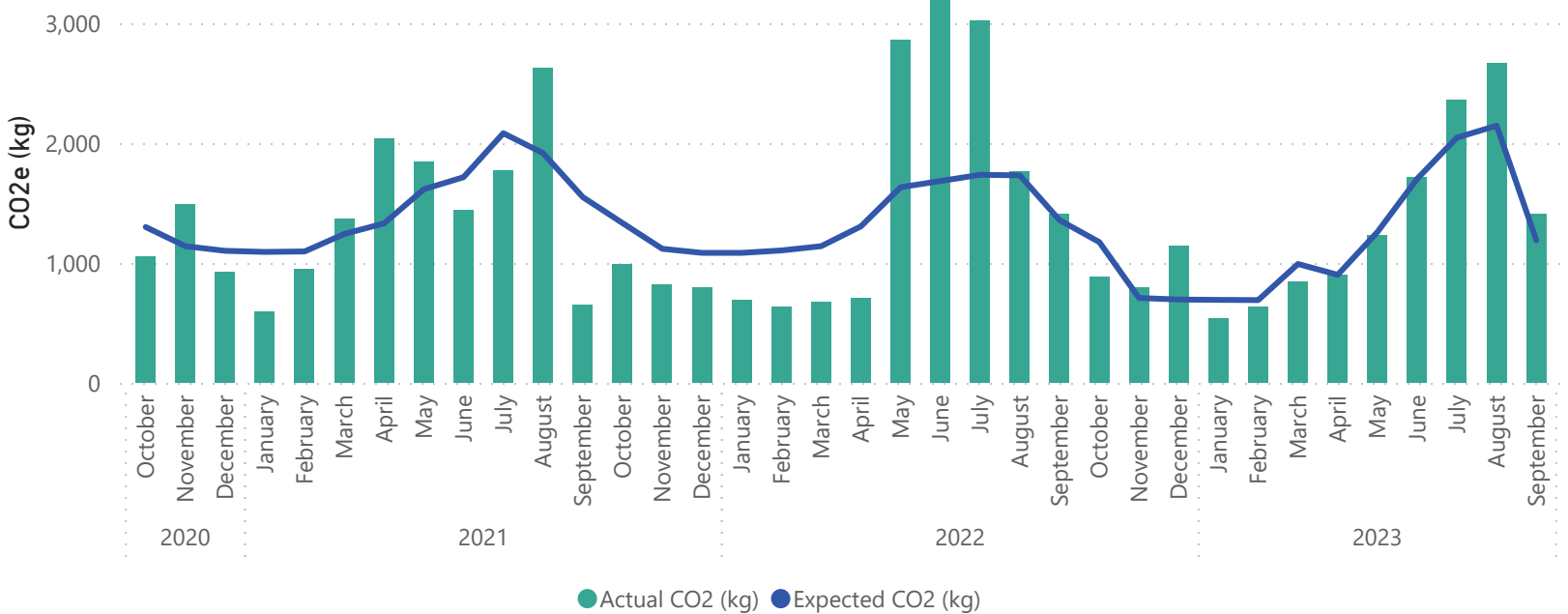
Whakatane District Council

War Memorial Hall

War Memorial Hall Natural Gas Compared to Baseline (kWh)



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

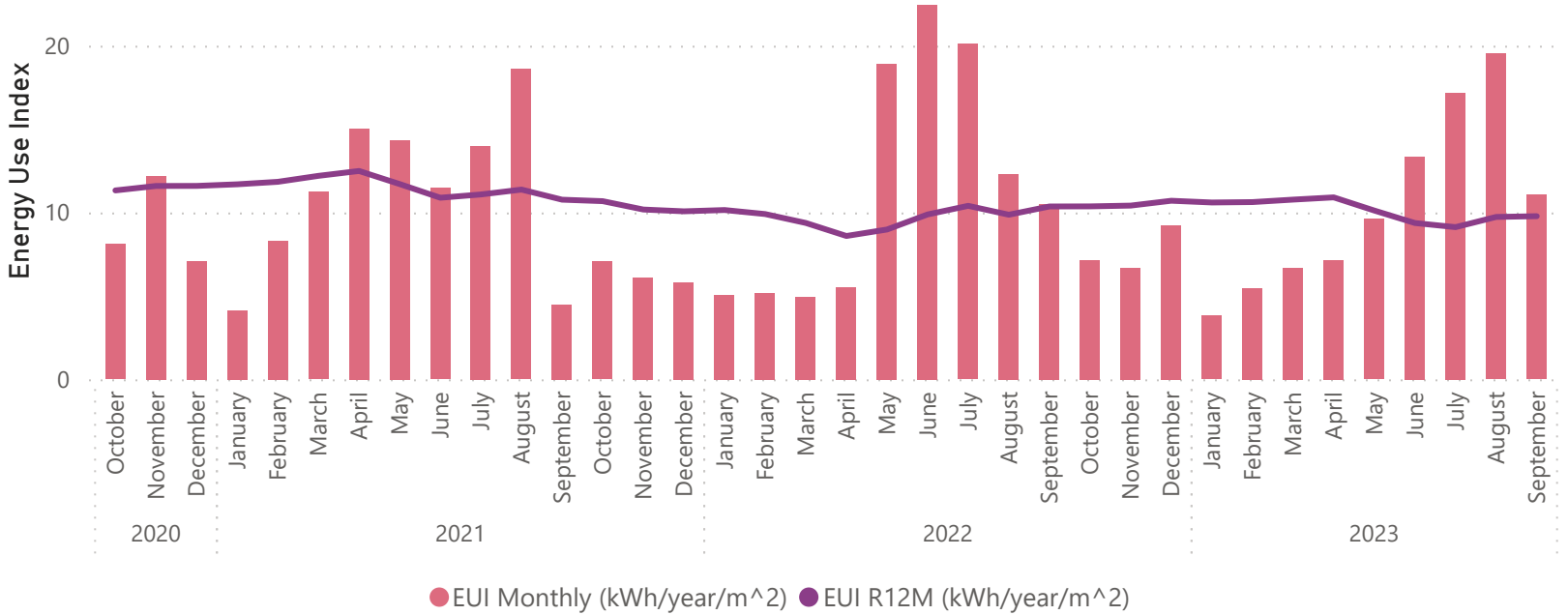


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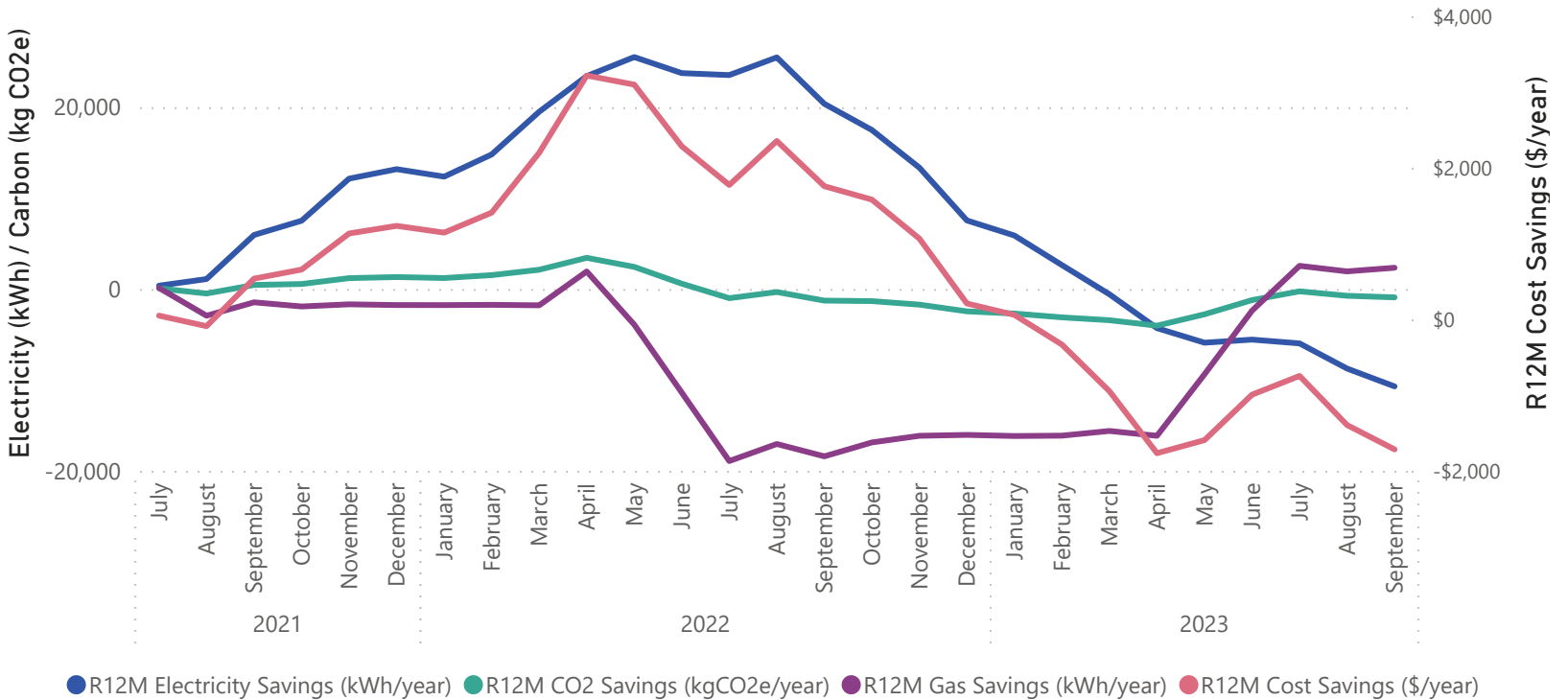
Whakatane District Council

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

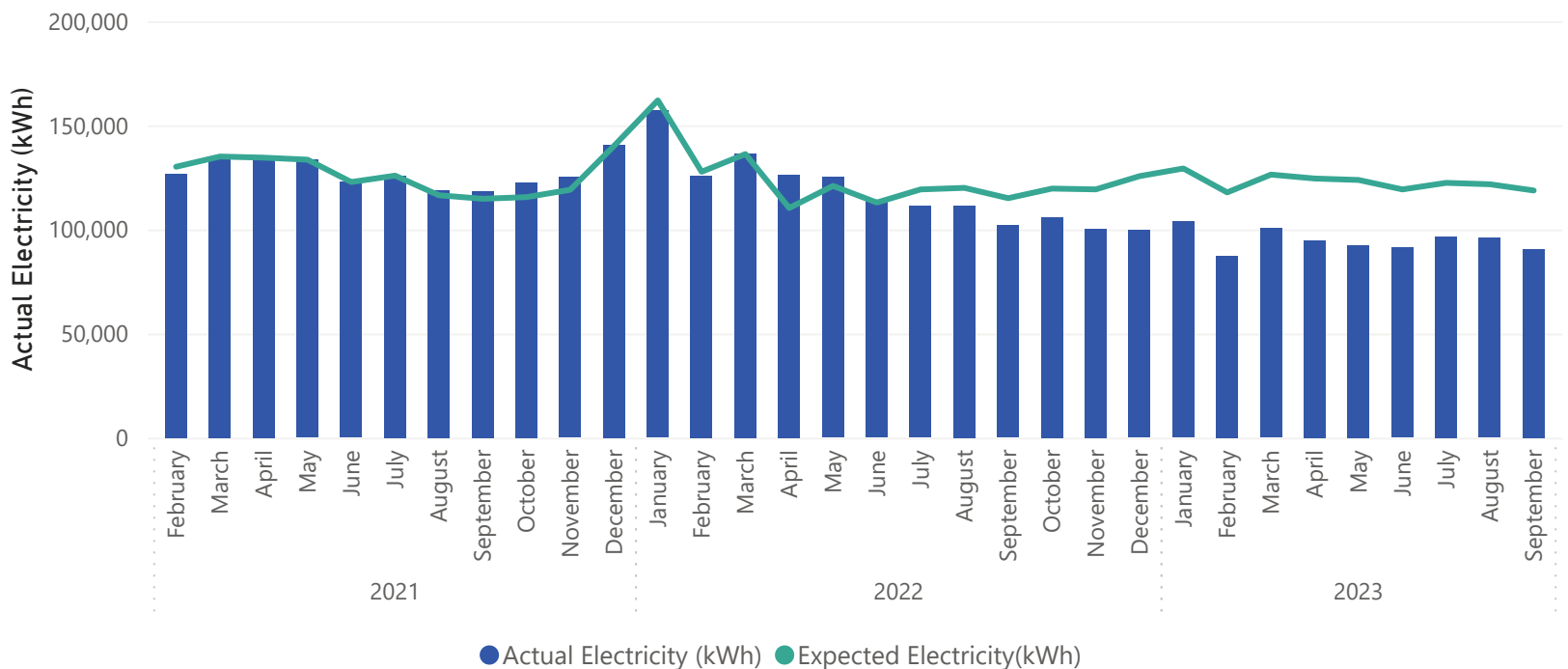
Water Treatment Plant

<p>\$4,659</p> <p>Monthly Energy Cost Savings</p>	<p>28,132</p> <p>Elec. Savings (kWh/mo)</p>	<p>24%</p> <p>Elec. Savings (%)</p>	<p>309,012</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>3,685</p> <p>CO2e Savings (kg/mo)</p>
<p>\$54,863</p> <p>R12M Energy Cost Savings</p>				<p>40,481</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 \$55,000, 309,000 kWh, and 40,500 kgCO2e saved in the past 12 months, which is excellent.

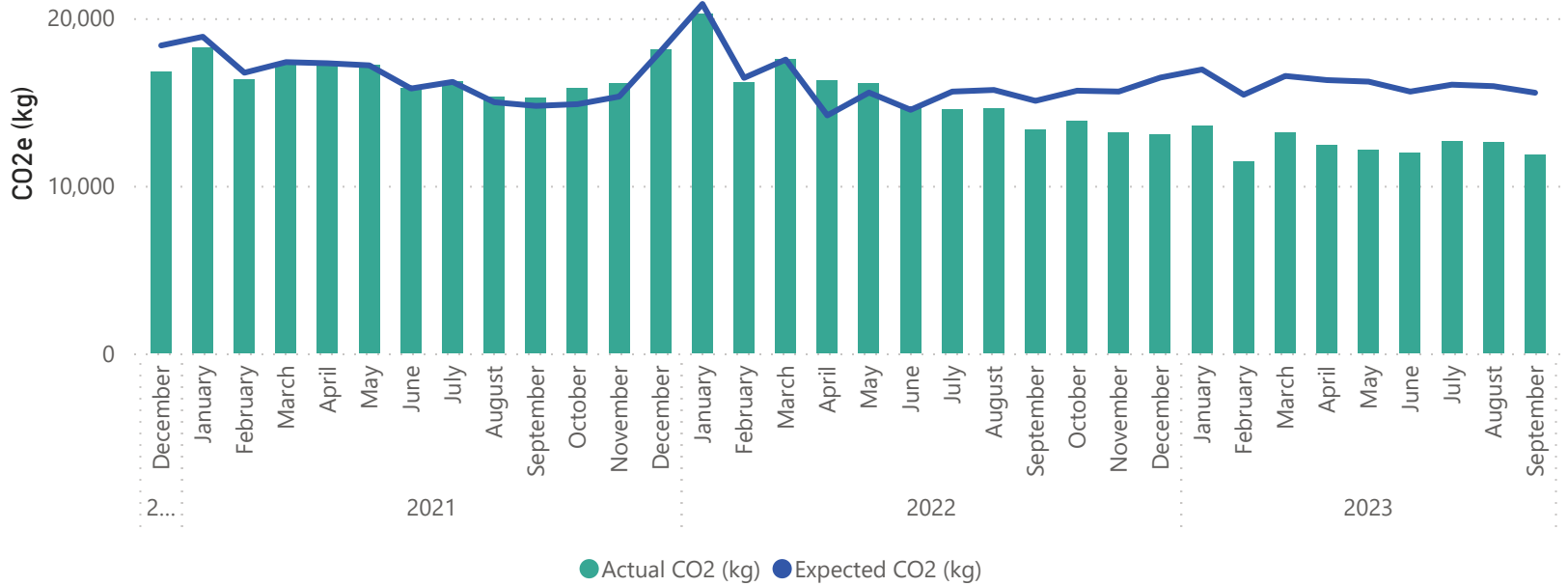
Water Treatment Plant Electricity Use Compared to Baseline (kWh)



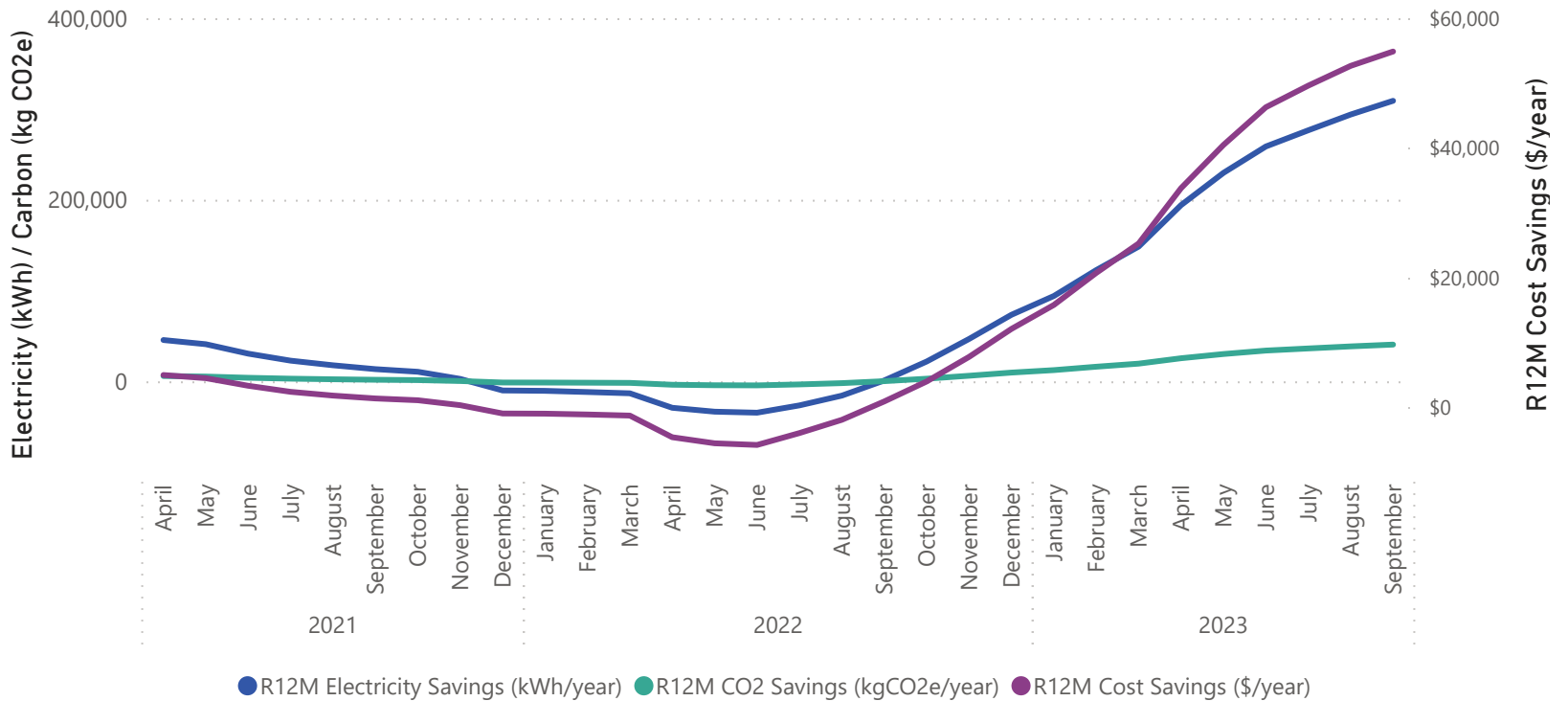
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Water Treatment Plant

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



Water Treatment Plant Rolling 12 Month Savings

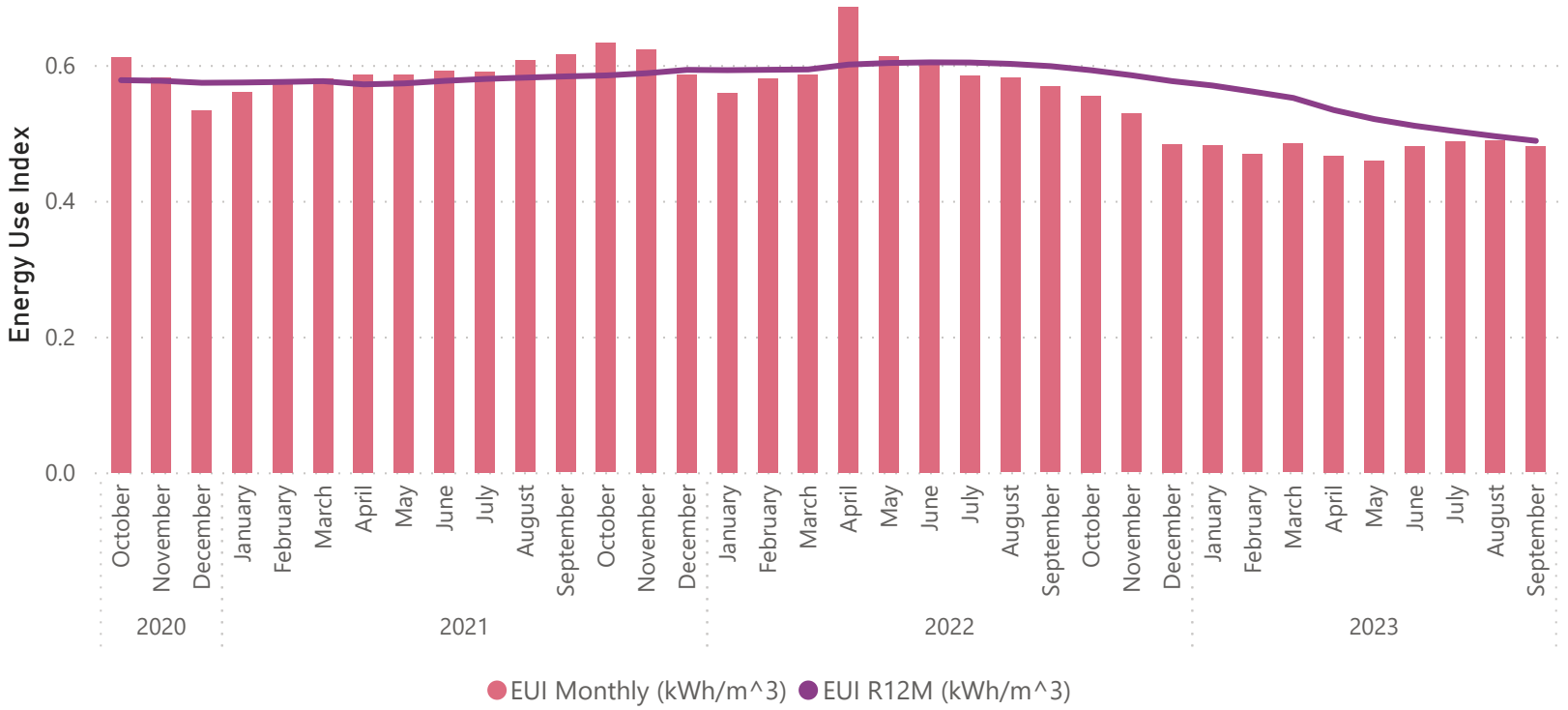


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Water Treatment Plant

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



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

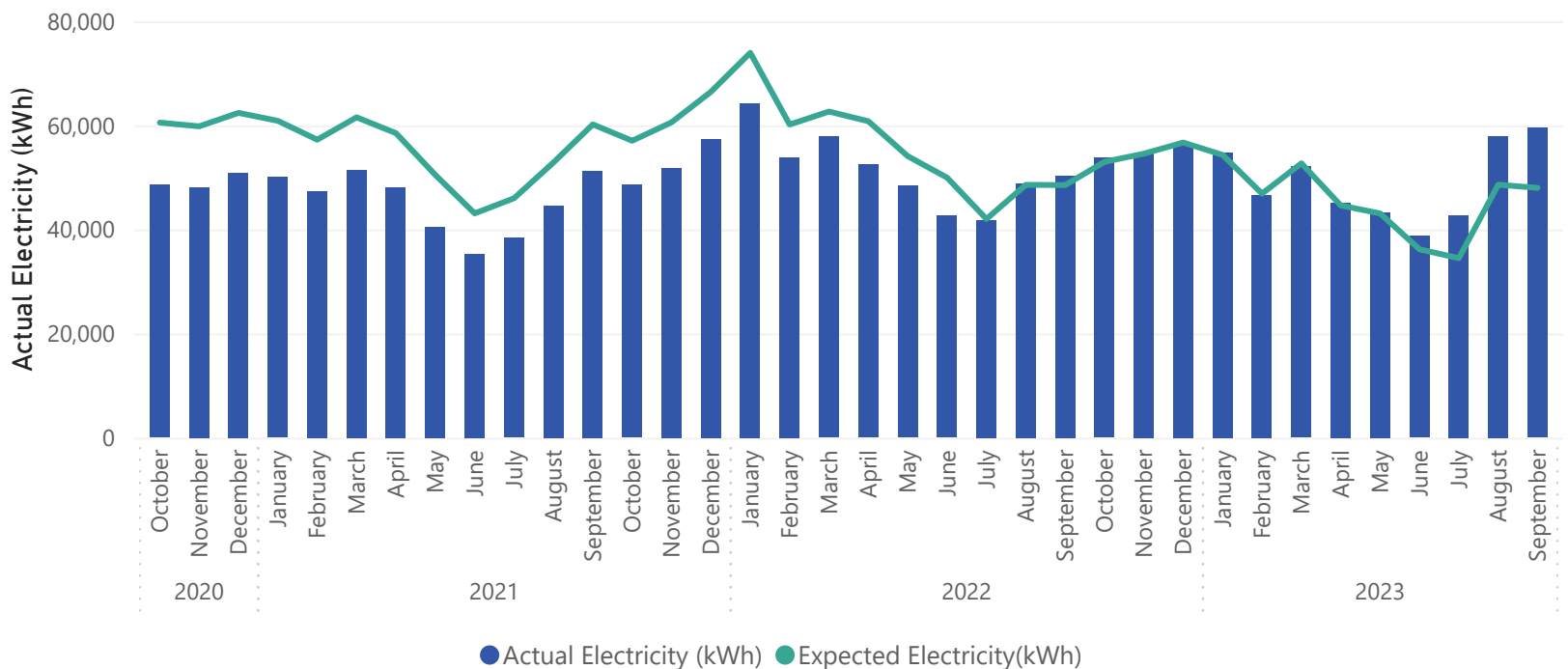
Braemar Road Pump Station

<p>-\$1,960</p> <p>Monthly Energy Cost Savings</p>	<p>-11,537</p> <p>Elec. Savings (kWh/mo)</p>	<p>-24%</p> <p>Elec. Savings (%)</p>	<p>-32,747</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-1,511</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$6,132</p> <p>R12M Energy Cost Savings</p>				<p>-4,290</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Work has been completed at Braemar Rd which added filters and new low lift pumps. Water data was previously estimated for July and August. A contractor was able to supply accurate flows, which show the impact of increased pumping requirements from new filters. New tags will be added to SCADA in future which will capture water metering.

Braemar Rd Pumps Electricity Use Compared to Baseline (kWh)

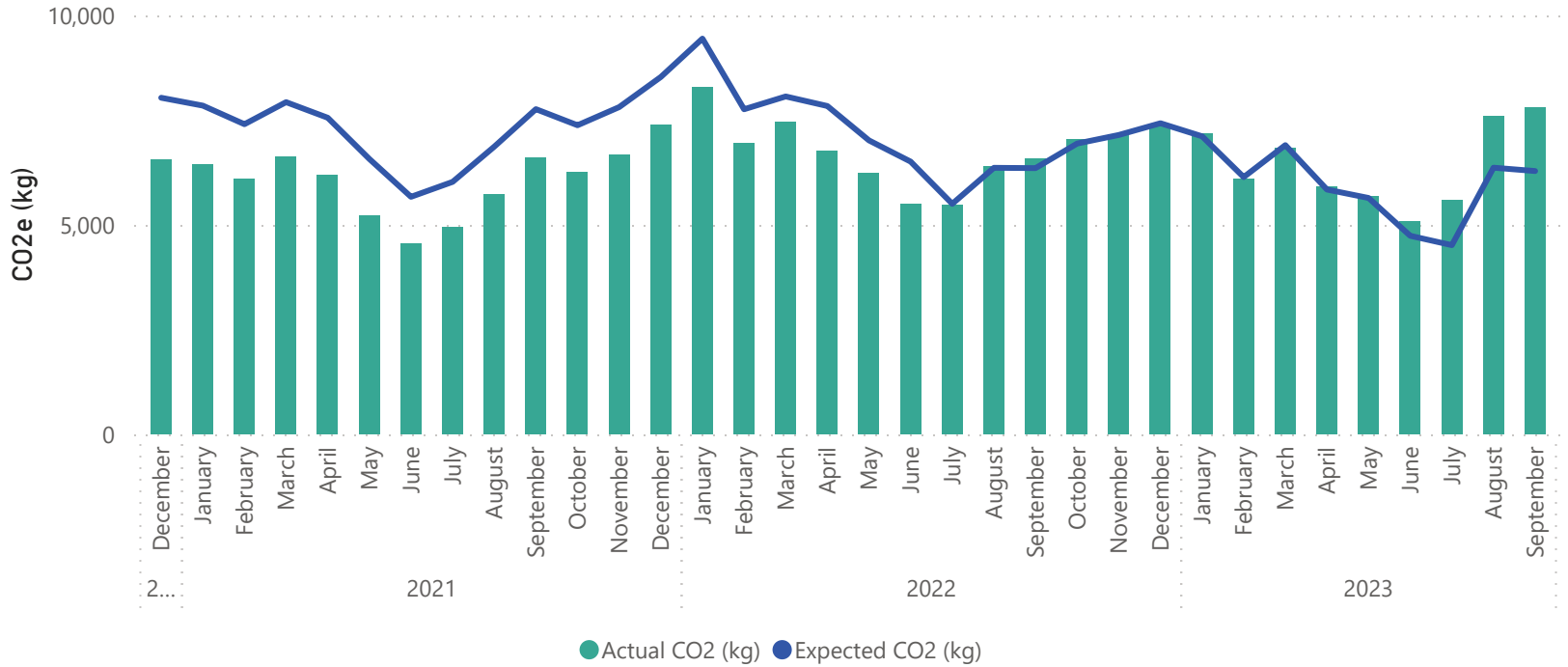


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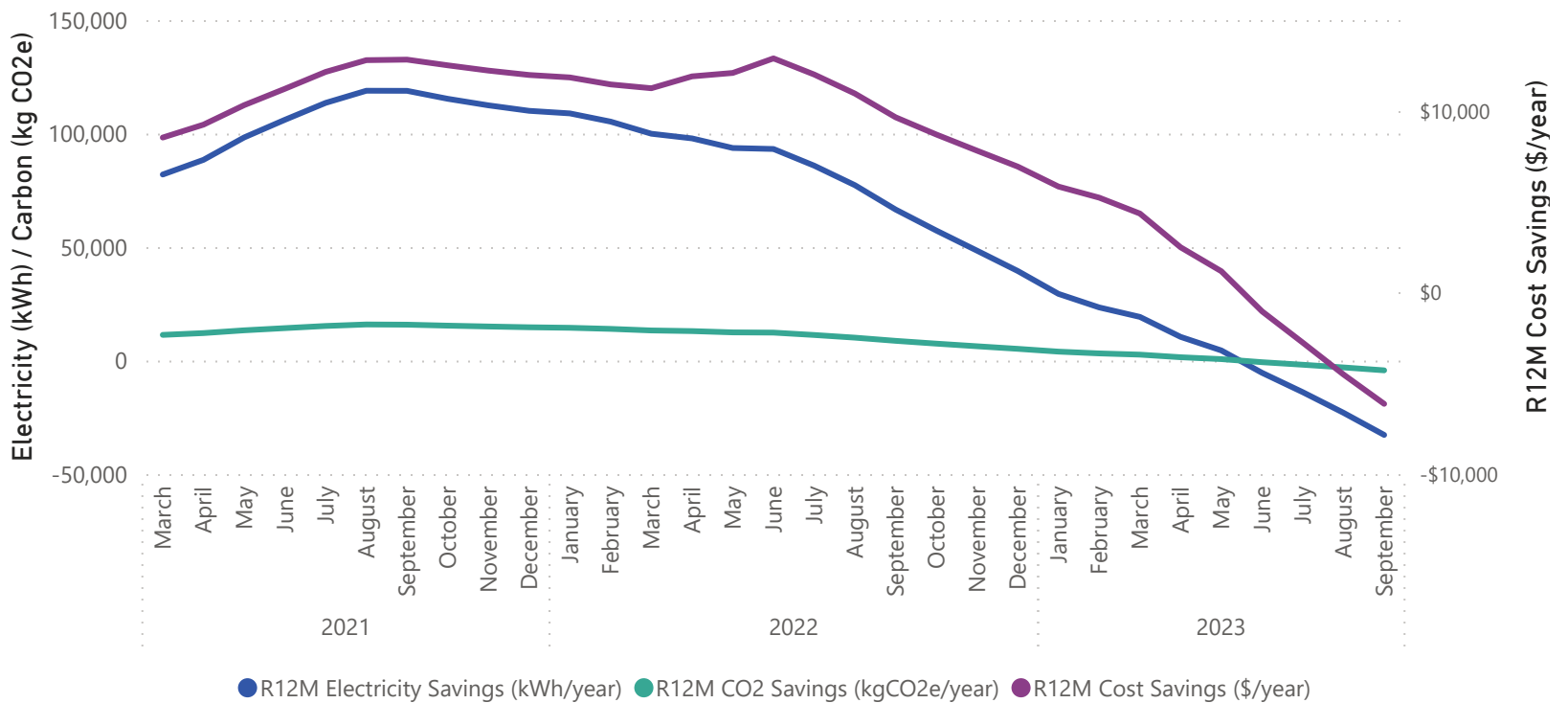
Whakatane District Council

Braemar Road Pump Station

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



Braemar Rd Pumps Rolling 12 Month Savings

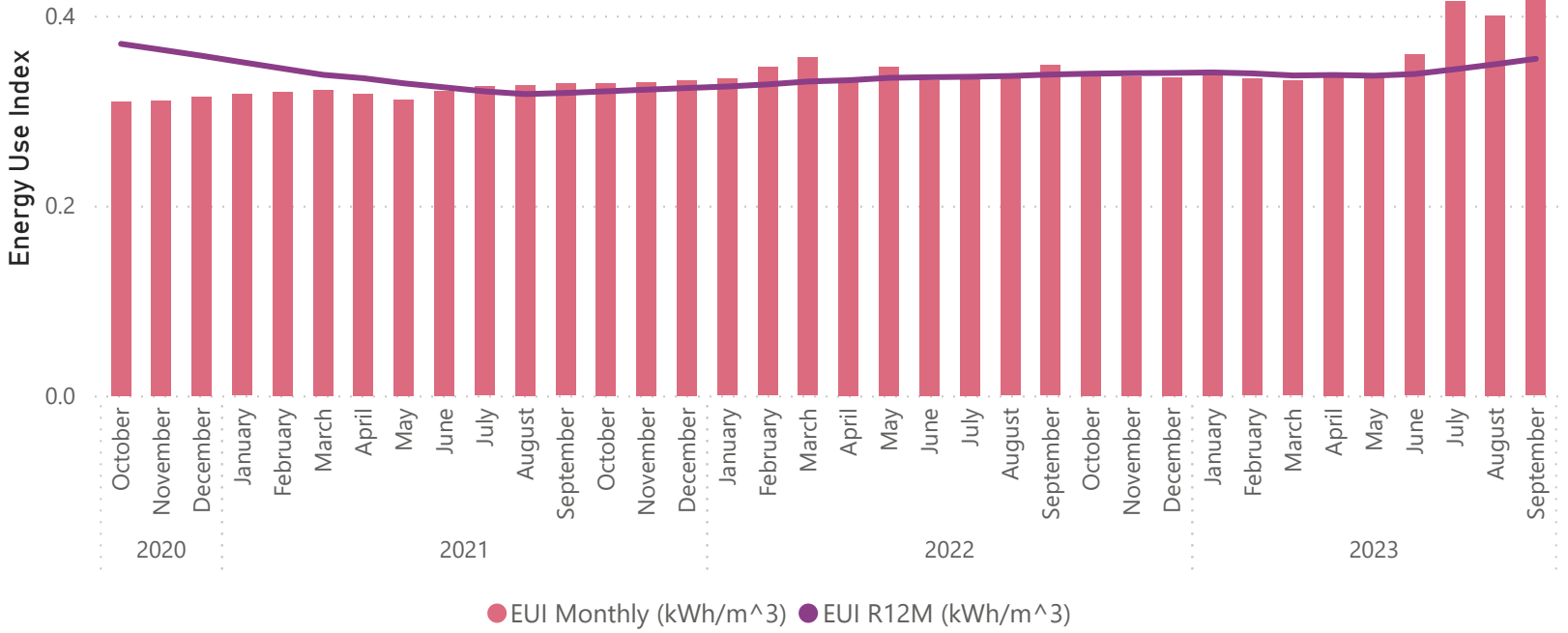


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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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Baselines were updated for all sites from July 2022.

Whakatane District Council

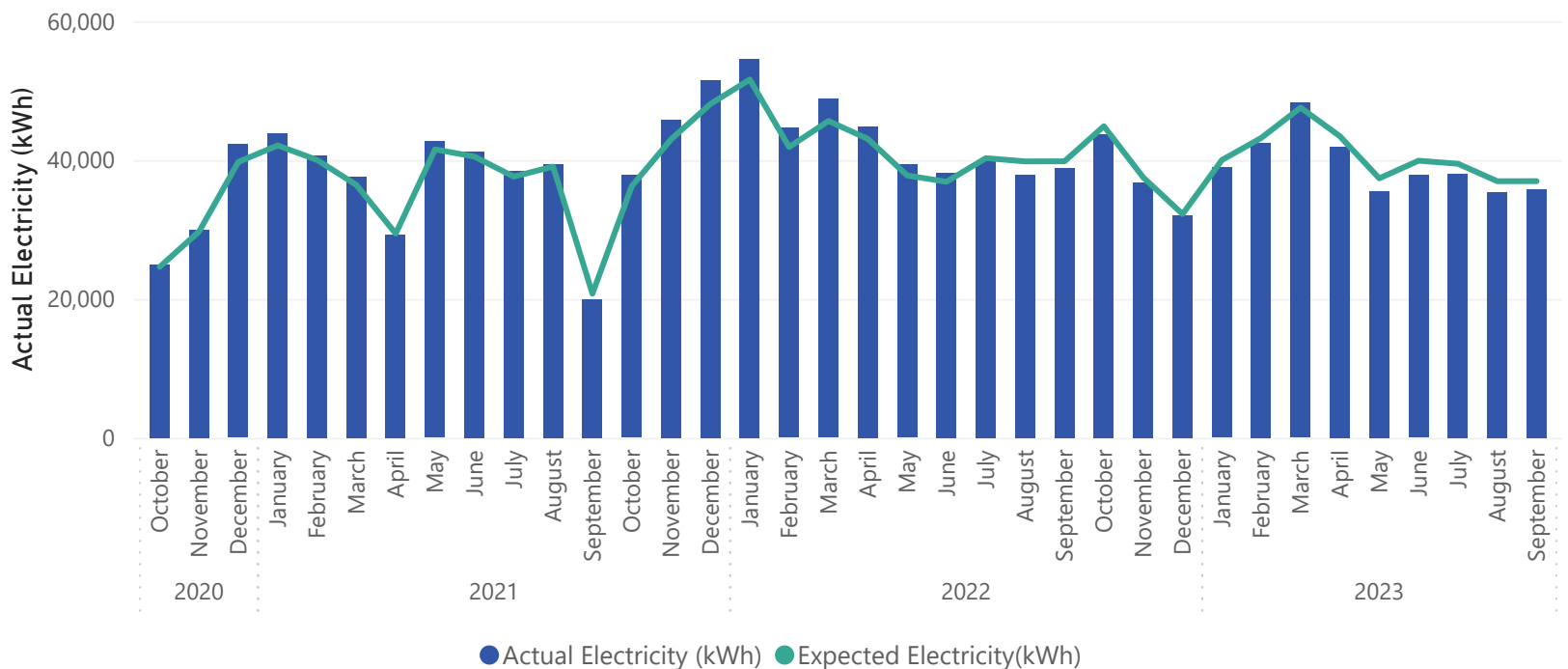
Paul Road Pump Station

<p>\$196 Monthly Energy Cost Savings</p>	<p>1,170 Elec. Savings (kWh/mo)</p>	<p>3% Elec. Savings (%)</p>	<p>12,821 R12M Electricity Savings (kWh/yr)</p>	<p>153 CO2e Savings (kg/mo)</p>
<p>\$2,386 R12M Energy Cost Savings</p>				<p>1,680 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)

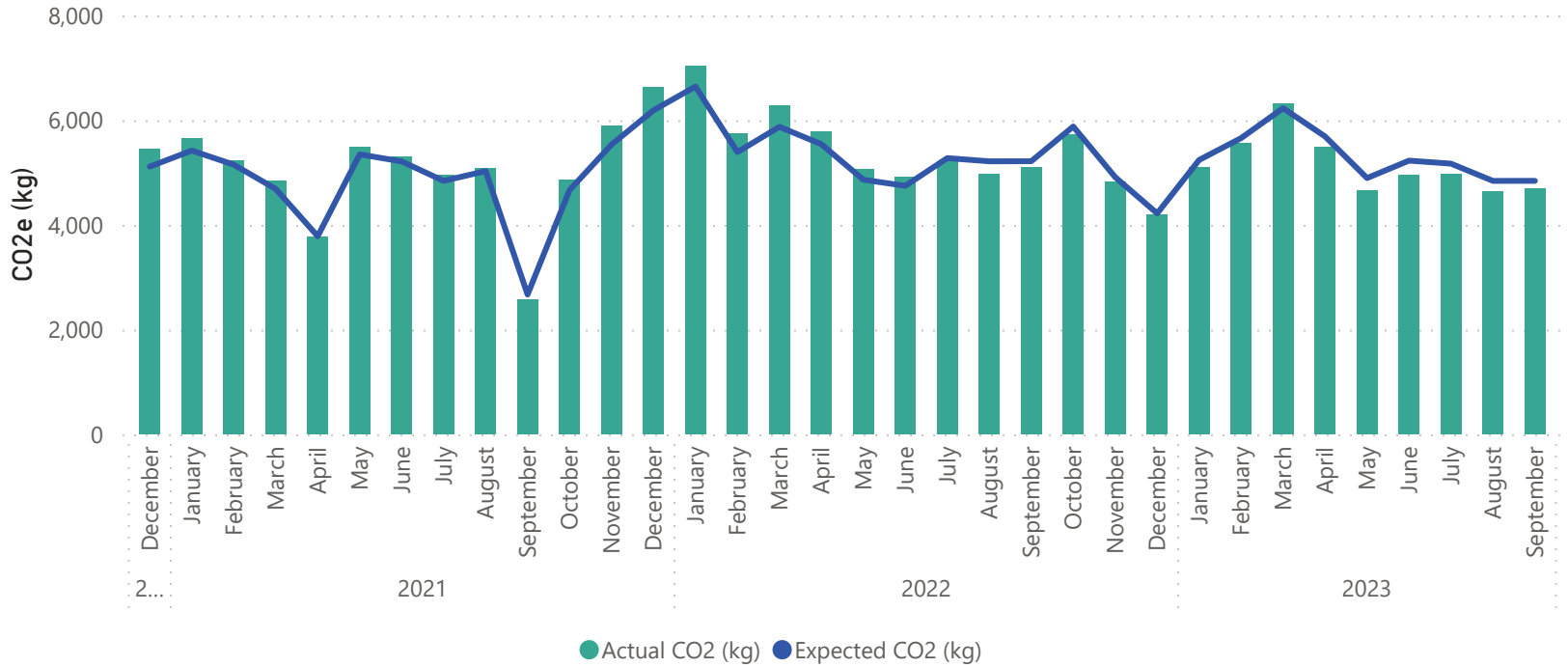


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

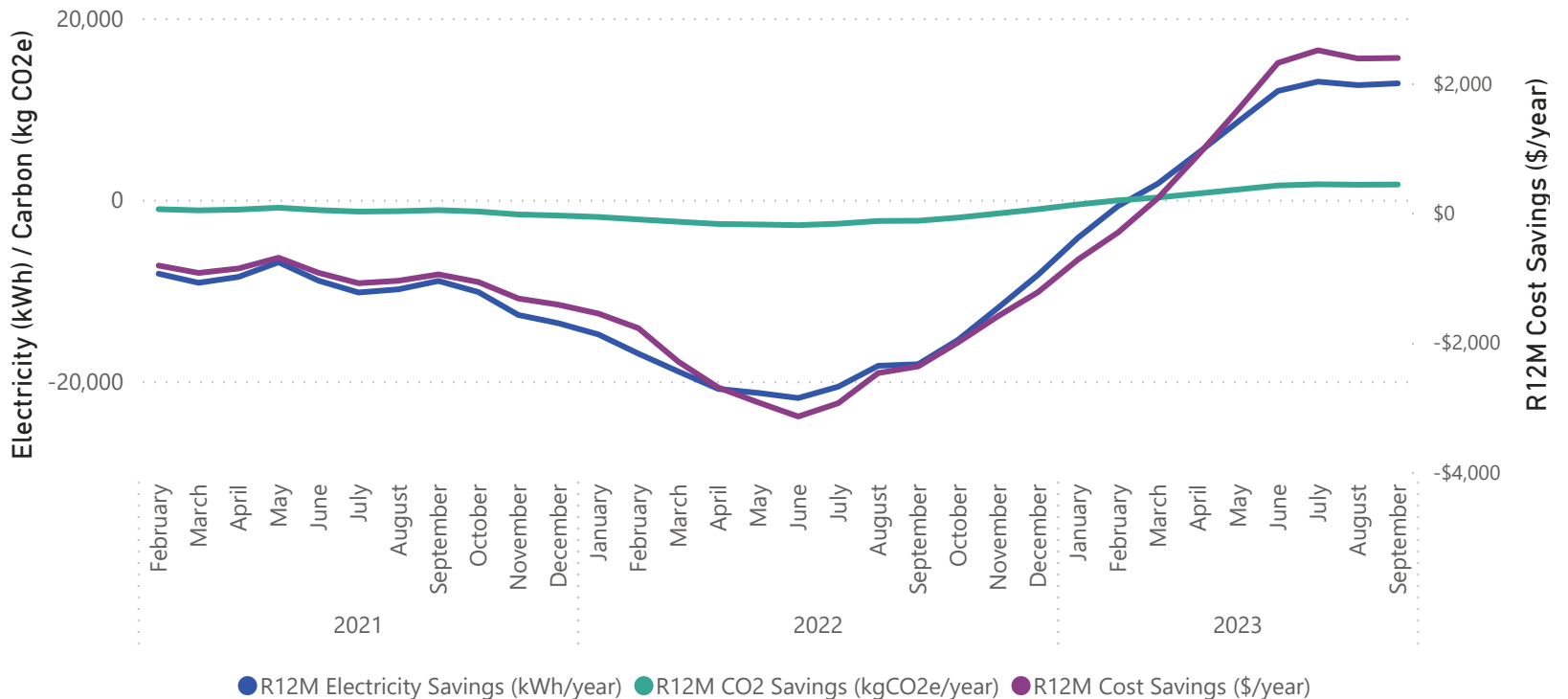
Whakatane District Council

Paul Road Pump Station

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



Paul Rd Pumps Rolling 12 Month Savings

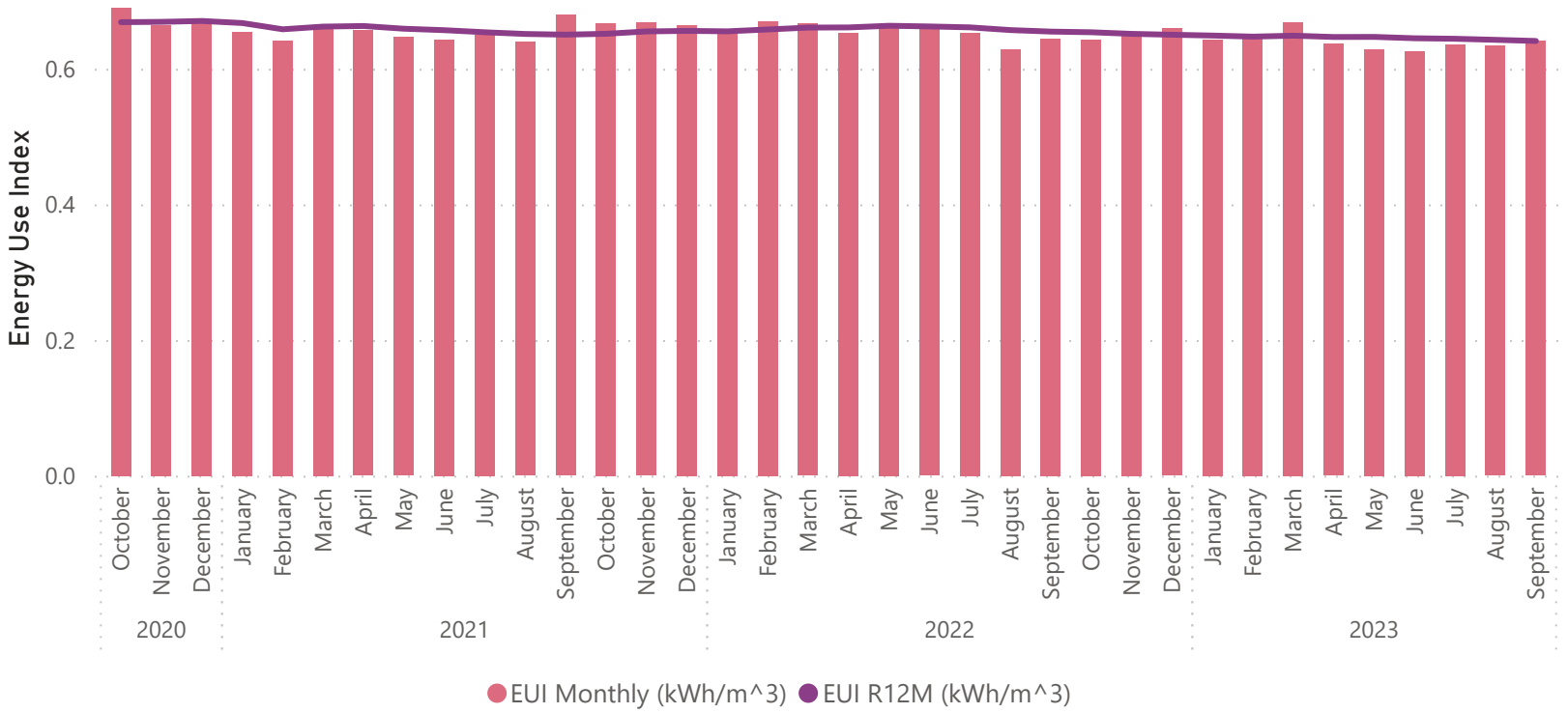


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

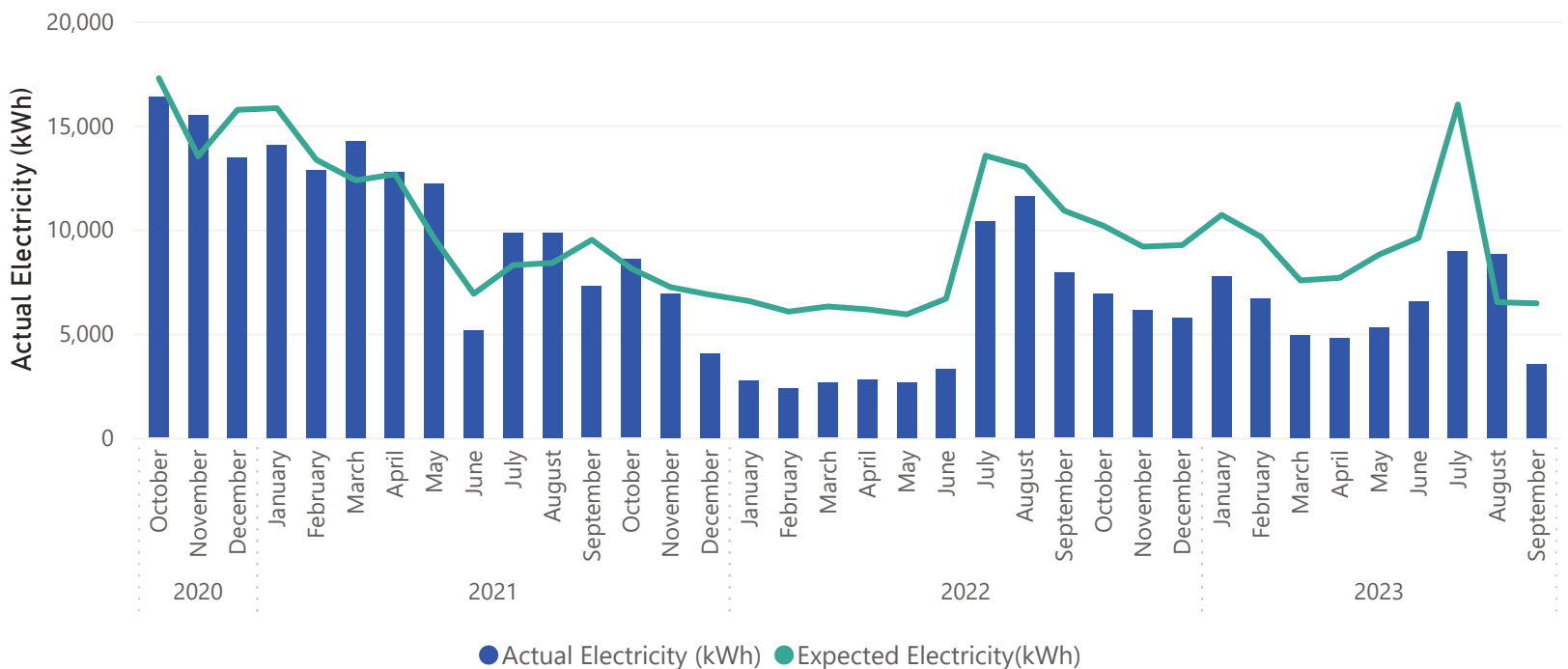
Johnson Road Pump Station

<p>\$646</p> <p>Monthly Energy Cost Savings</p>	<p>2,907</p> <p>Elec. Savings (kWh/mo)</p>	<p>45%</p> <p>Elec. Savings (%)</p>	<p>35,384</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>381</p> <p>CO2e Savings (kg/mo)</p>
<p>\$7,635</p> <p>R12M Energy Cost Savings</p>				<p>4,635</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Johnson Rd Pump used significantly more electricity than expected in August and significantly less than expected in September, this may be in part due to when meter readings were taken by the retailer. 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)

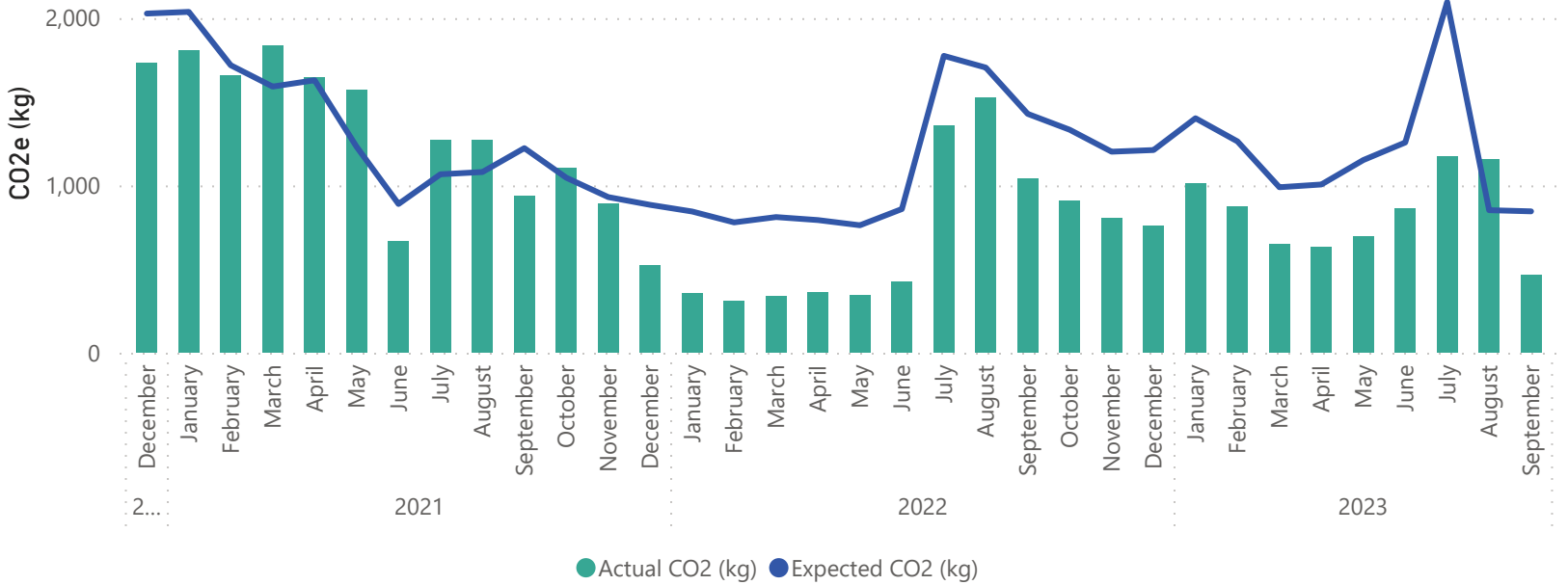


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

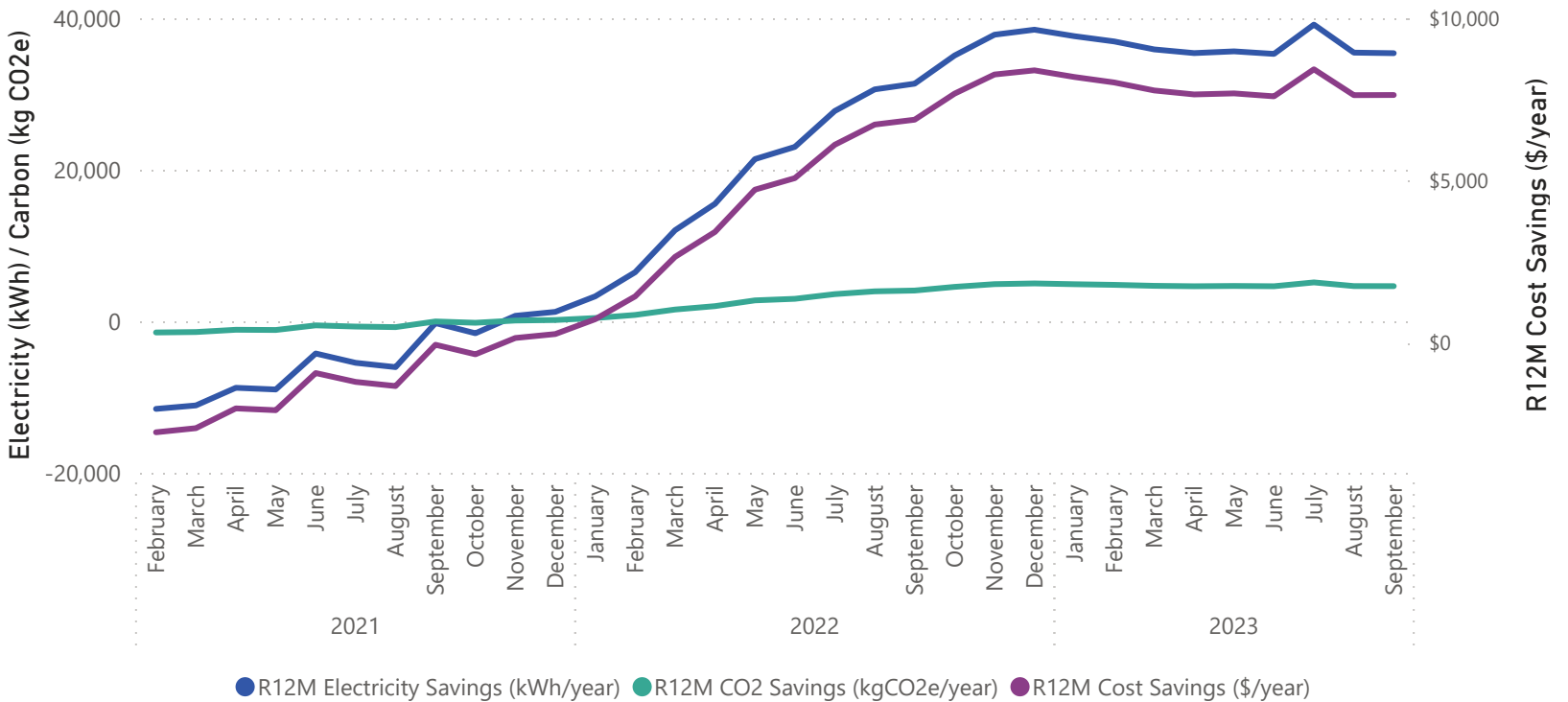
Whakatane District Council

Johnson Road Pump Station

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



Johnson Rd Pumps Rolling 12 Month Savings

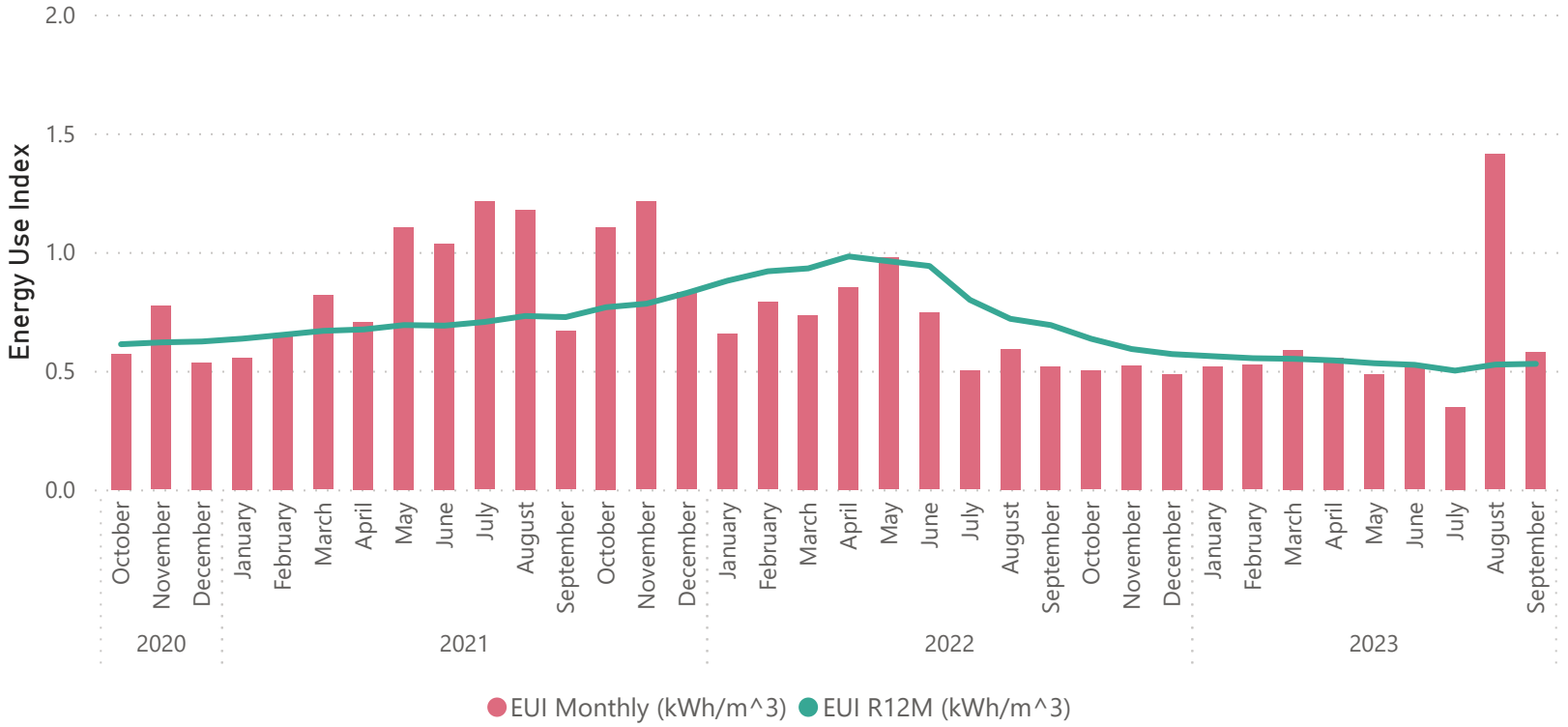


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

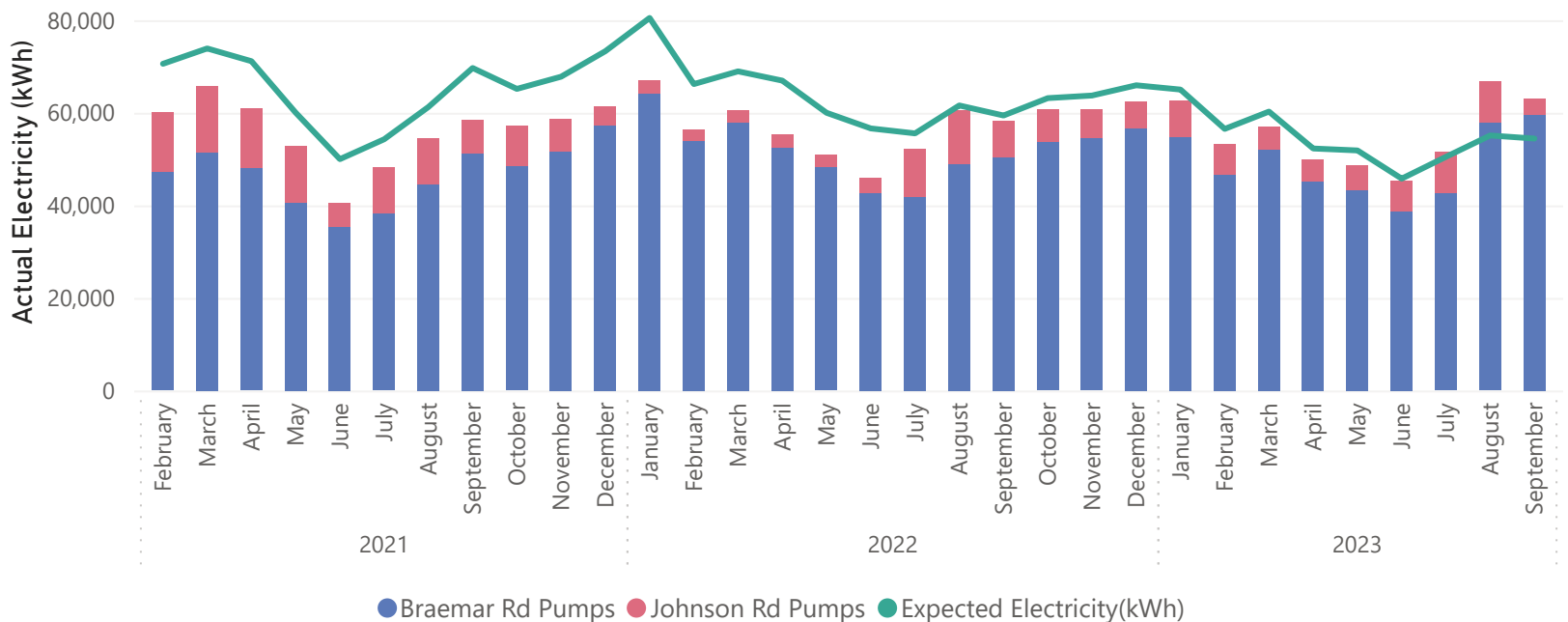
Johnson and Braemar Rd Pump Stations

<p>-\$1,313 Monthly Energy Cost Savings</p>	<p>-8,631 Elec. Savings (kWh/mo)</p>	<p>-16% Elec. Savings (%)</p>	<p>2,637 R12M Electricity Savings (kWh/yr)</p>	<p>-1,131 CO2e Savings (kg/mo)</p>
<p>\$1,503 R12M Energy Cost Savings</p>				<p>345 R12M CO2e Savings (kg/yr)</p>

Comments:

Braemar Rd pump station has used more electricity than expected in September 2023 and Johnson Rd has used less than expected. New filters at Braemar Road have increased pumping requirements.

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

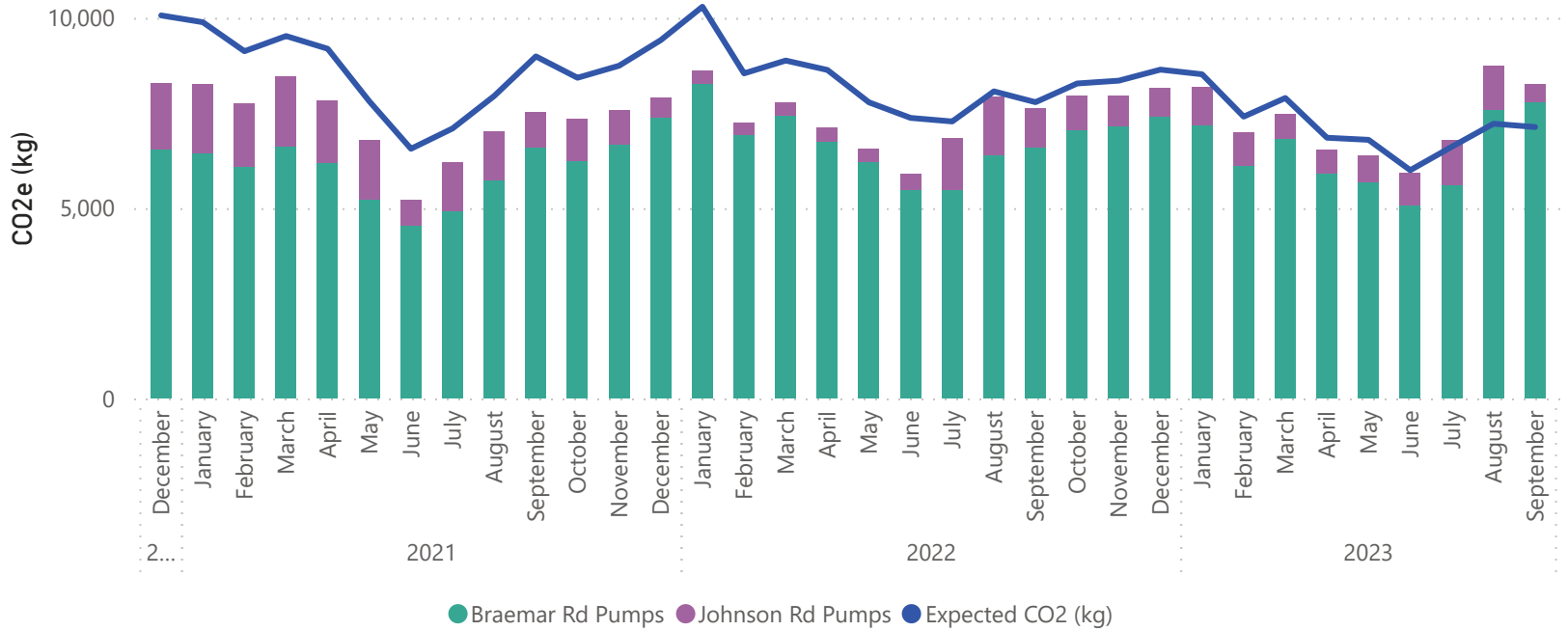


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

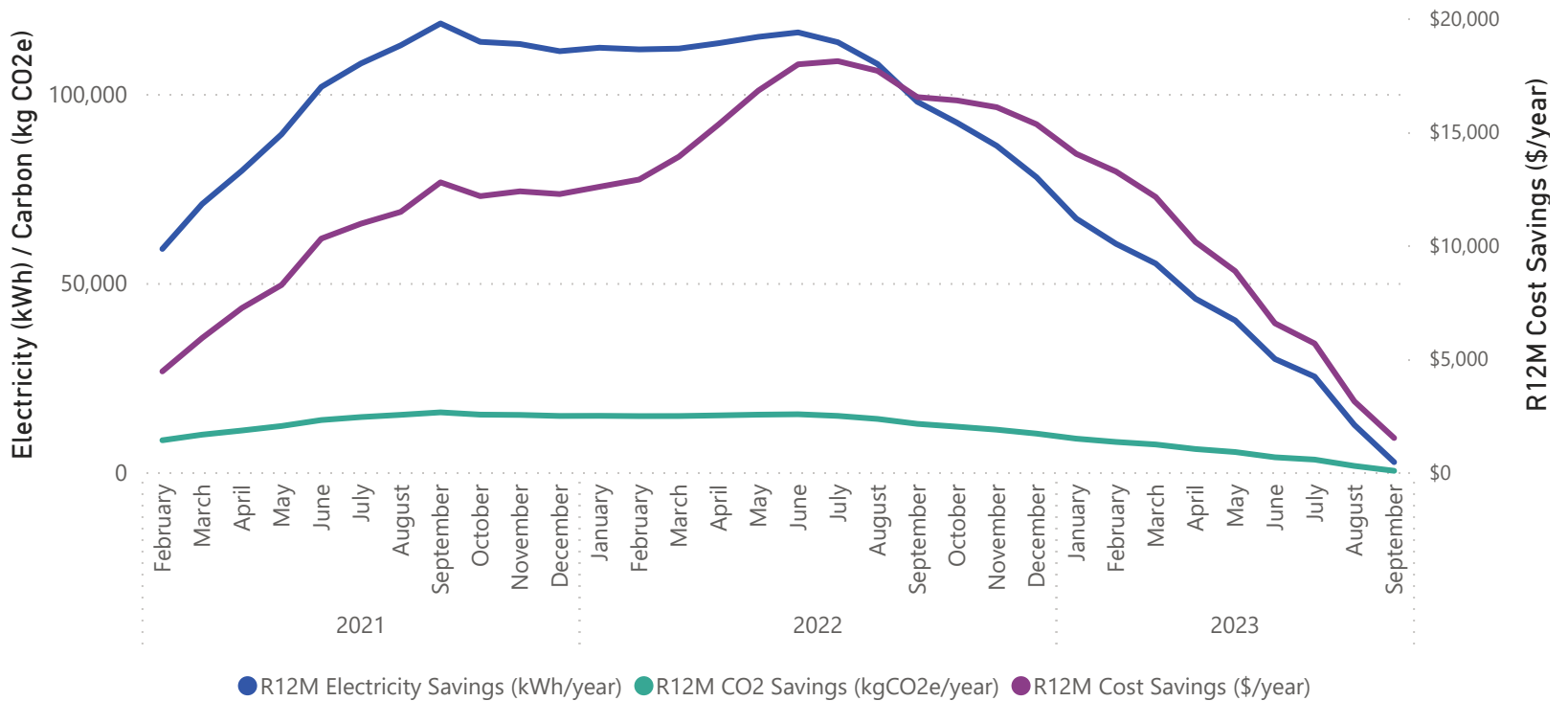
Whakatane District Council

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

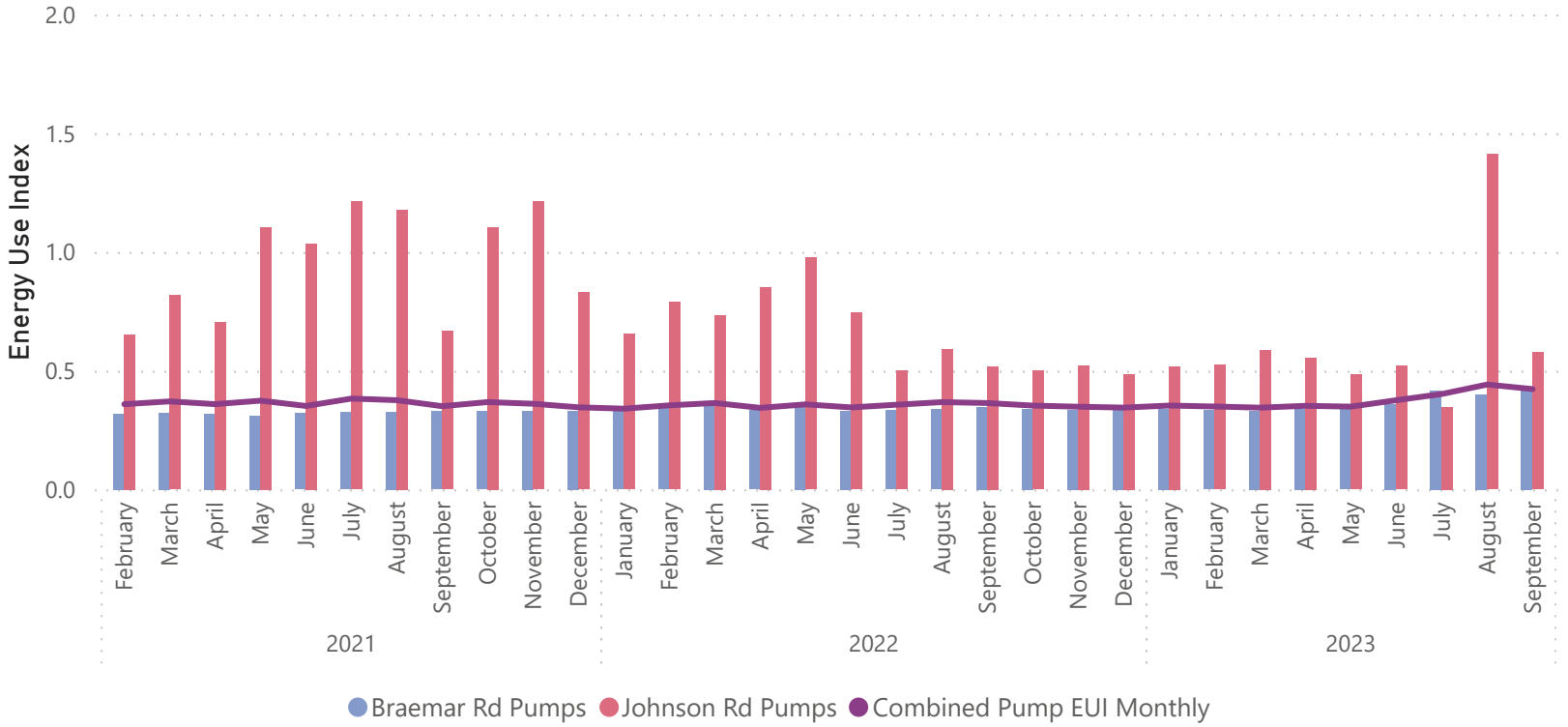


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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
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Whakatane District Council

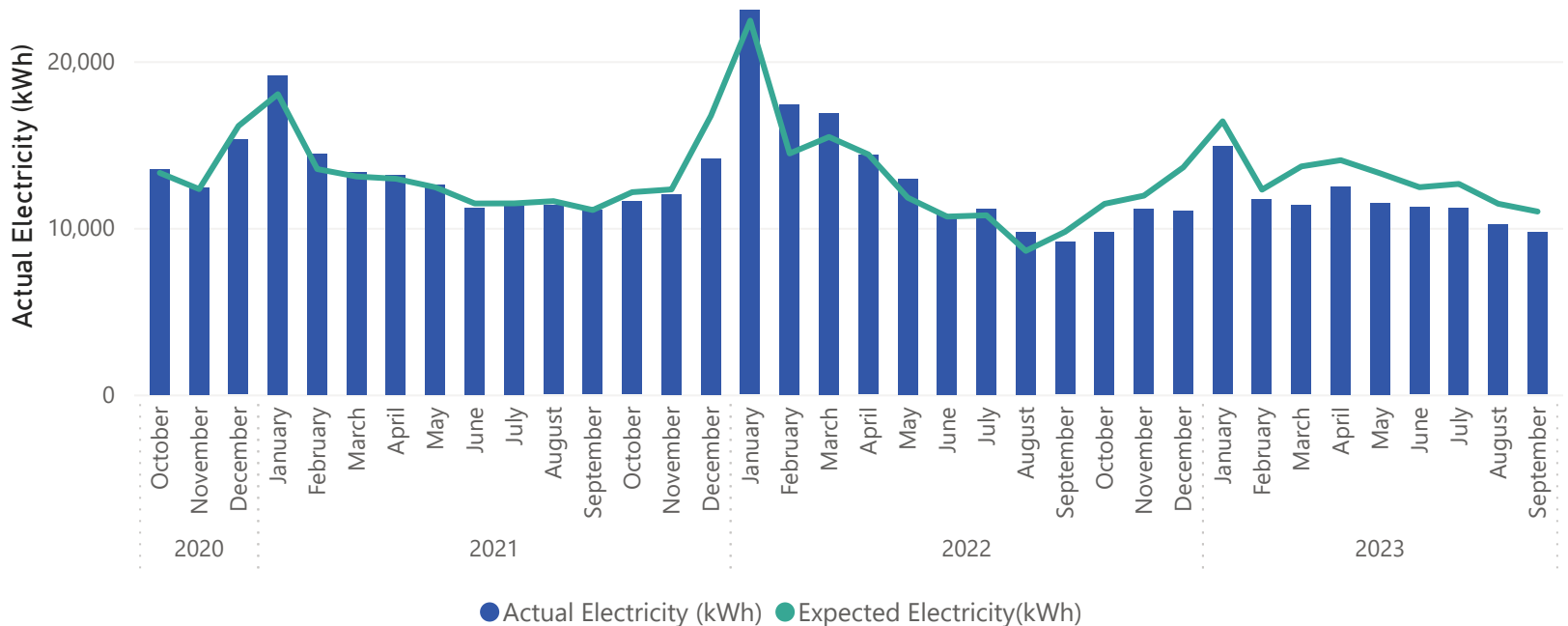
Bridger Glade Pump Station

<p>\$221 Monthly Energy Cost Savings</p>	<p>1,247 Elec. Savings (kWh/mo)</p>	<p>11% Elec. Savings (%)</p>	<p>18,007 R12M Electricity Savings (kWh/yr)</p>	<p>163 CO2e Savings (kg/mo)</p>
<p>\$3,177 R12M Energy Cost Savings</p>				<p>2,359 R12M CO2e Savings (kg/yr)</p>

Comments:

September 2023 is the 13th 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 \$3,200, 18,000 kWh, and 2,360 kg CO2e.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

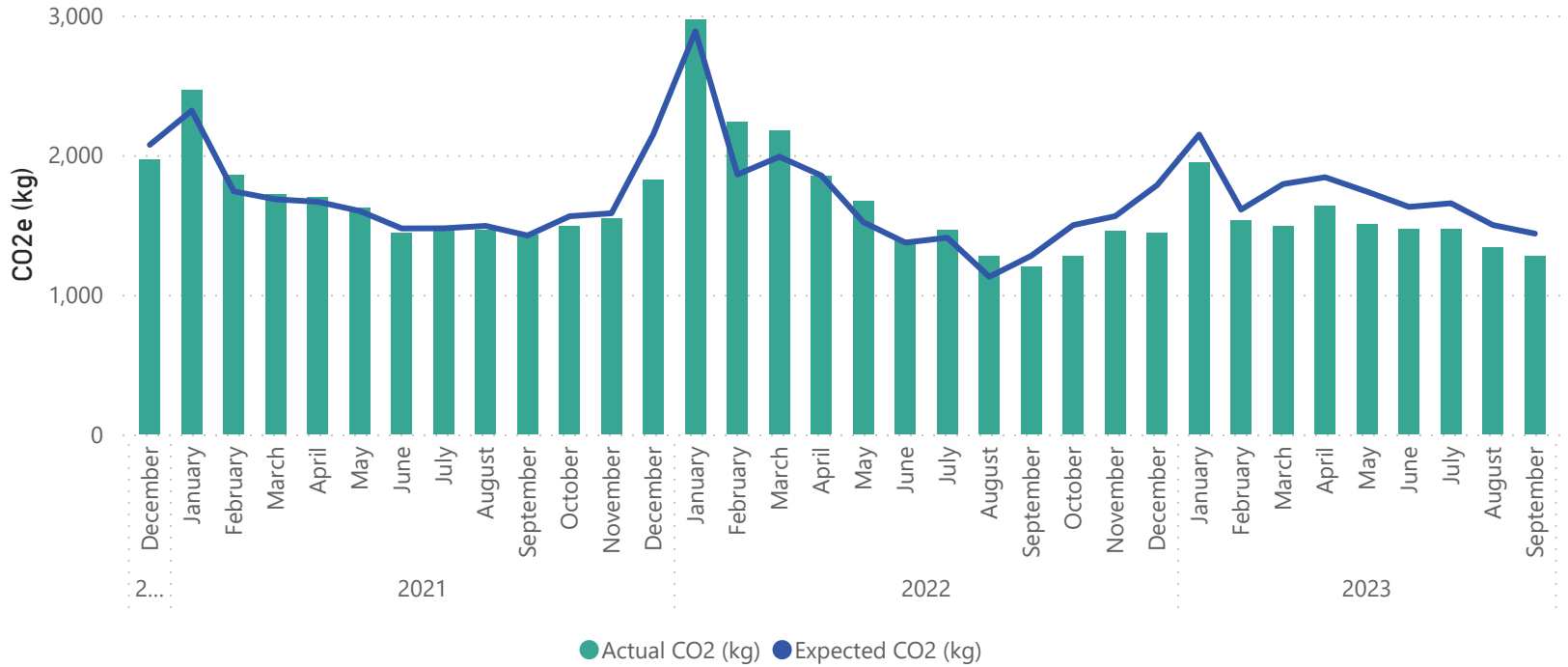


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

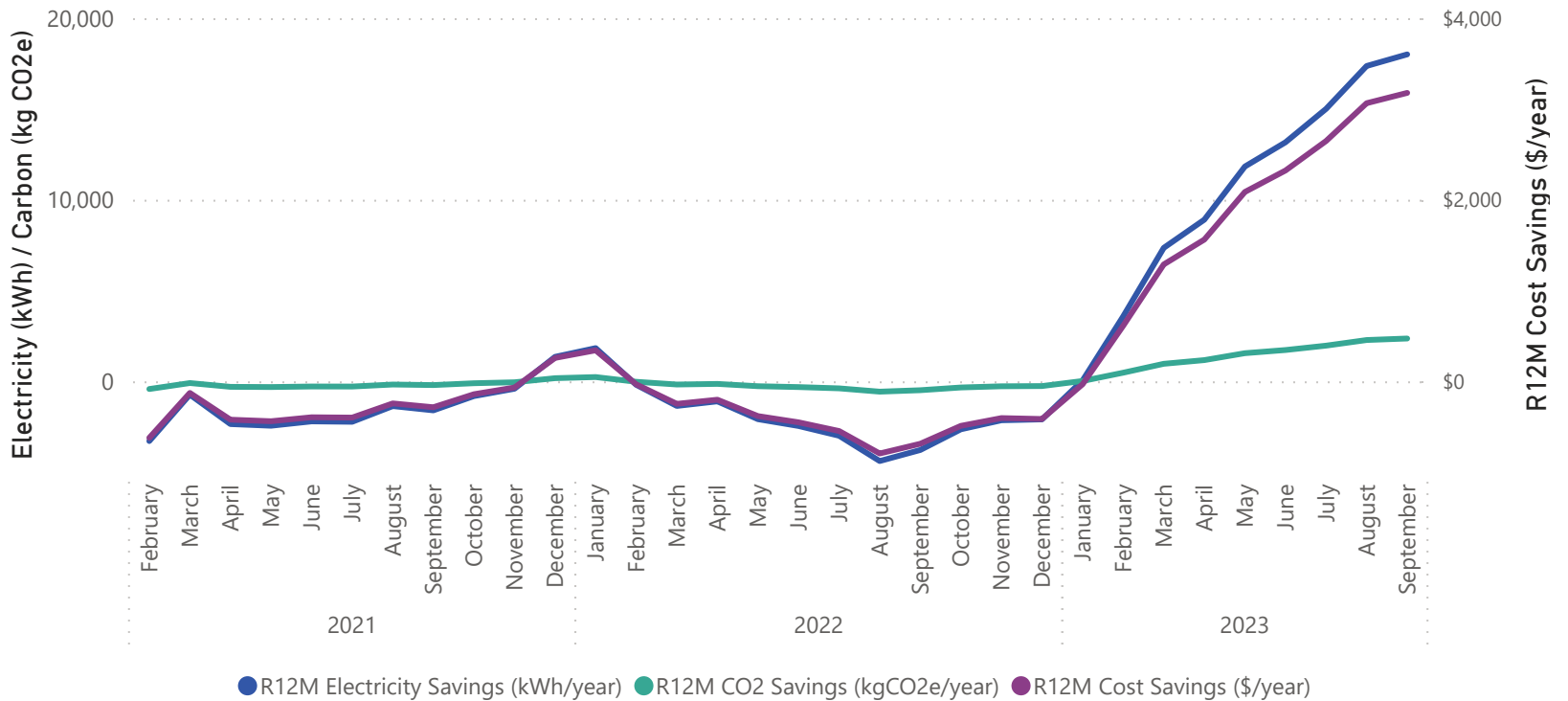
Whakatane District Council

Bridger Glade Pump Station

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



Bridger Glade Pumps Rolling 12 Month Savings

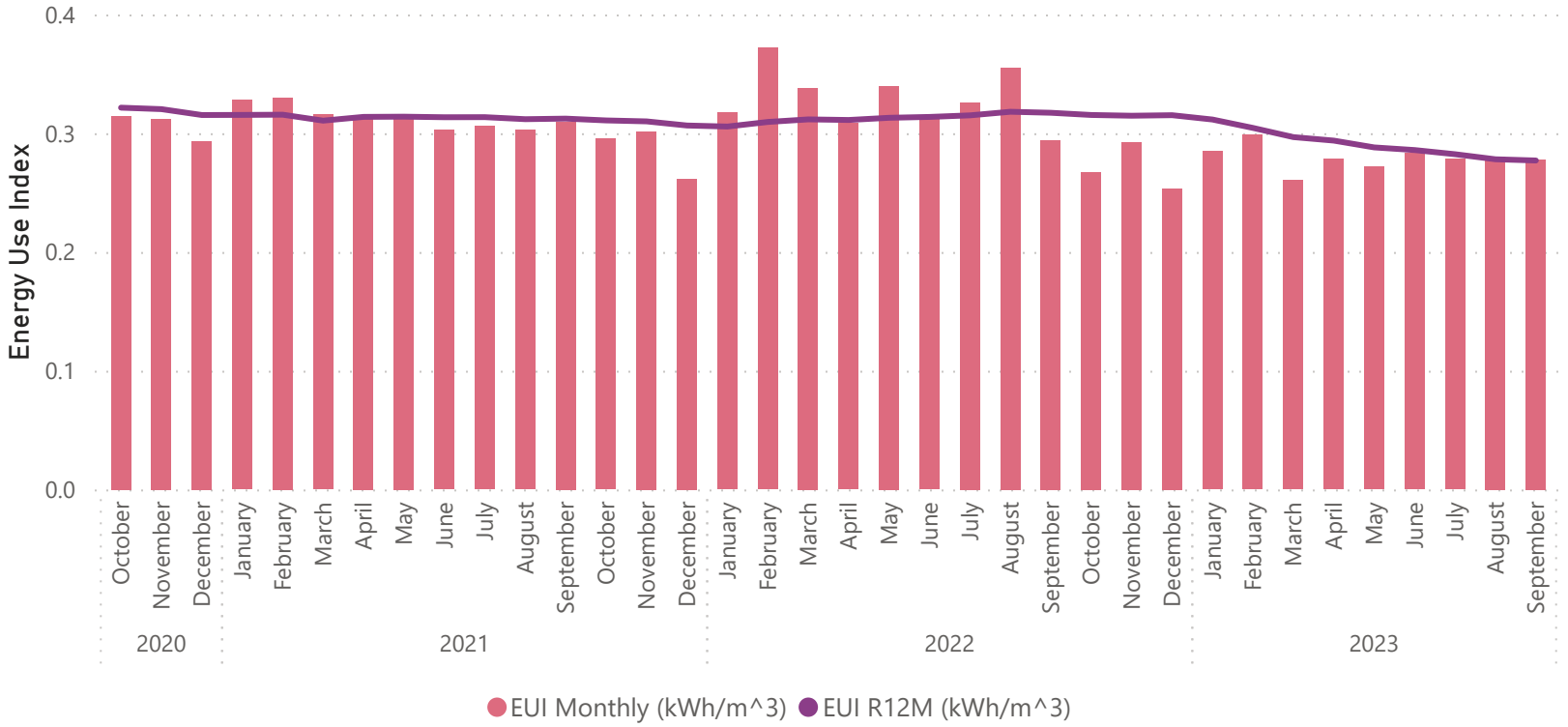


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

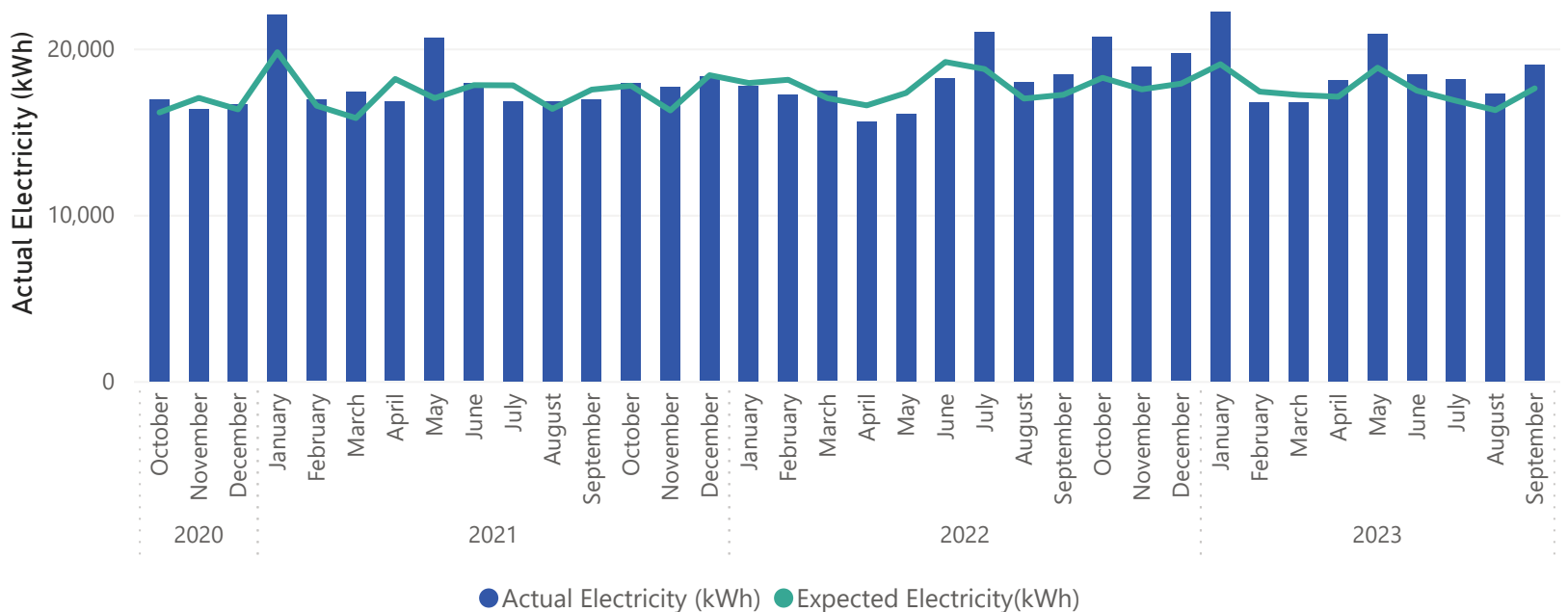
Ohope Oxidation Ponds

<p>-\$253 Monthly Energy Cost Savings</p>	<p>-1,397 Elec. Savings (kWh/mo)</p>	<p>-8% Elec. Savings (%)</p>	<p>-15,362 R12M Electricity Savings (kWh/yr)</p>	<p>-183 CO2e Savings (kg/mo)</p>
<p>-\$2,711 R12M Energy Cost Savings</p>				<p>-2,012 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 September is close to average for the past 12 months.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

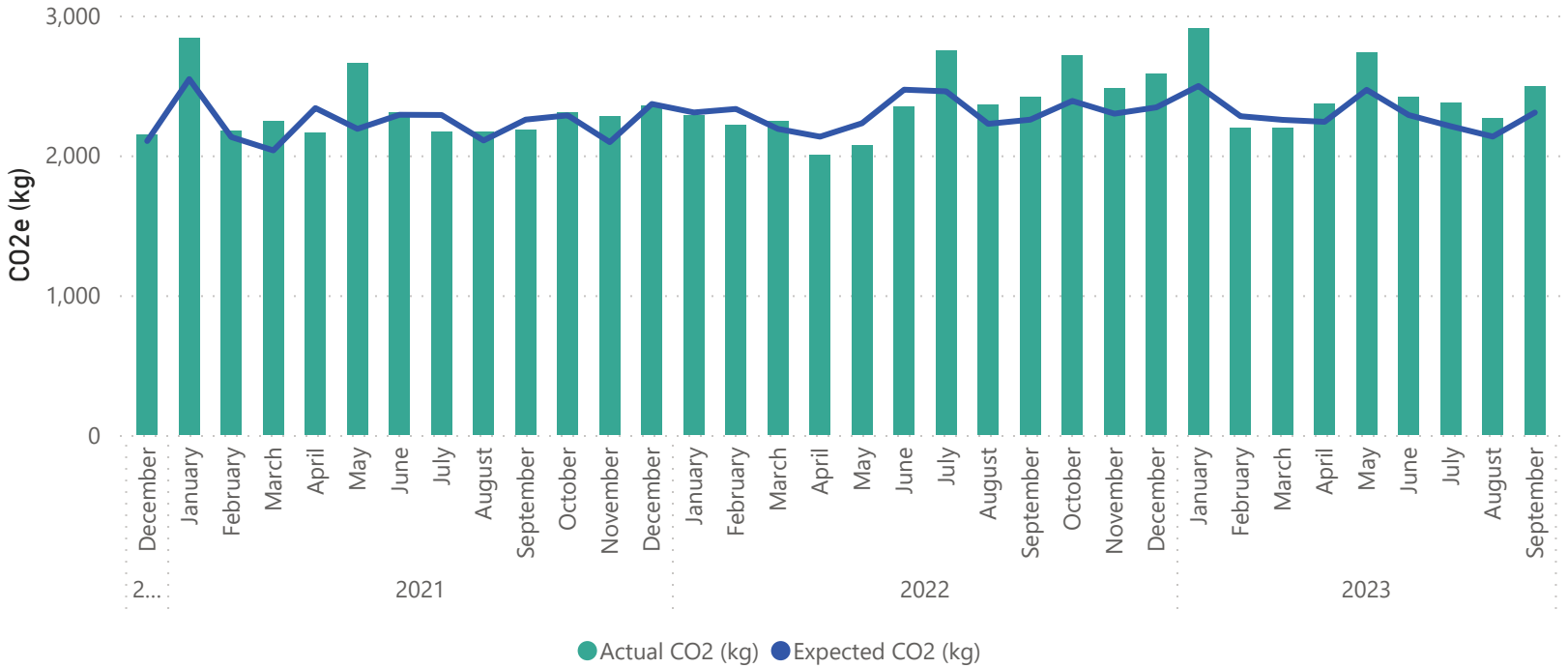


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

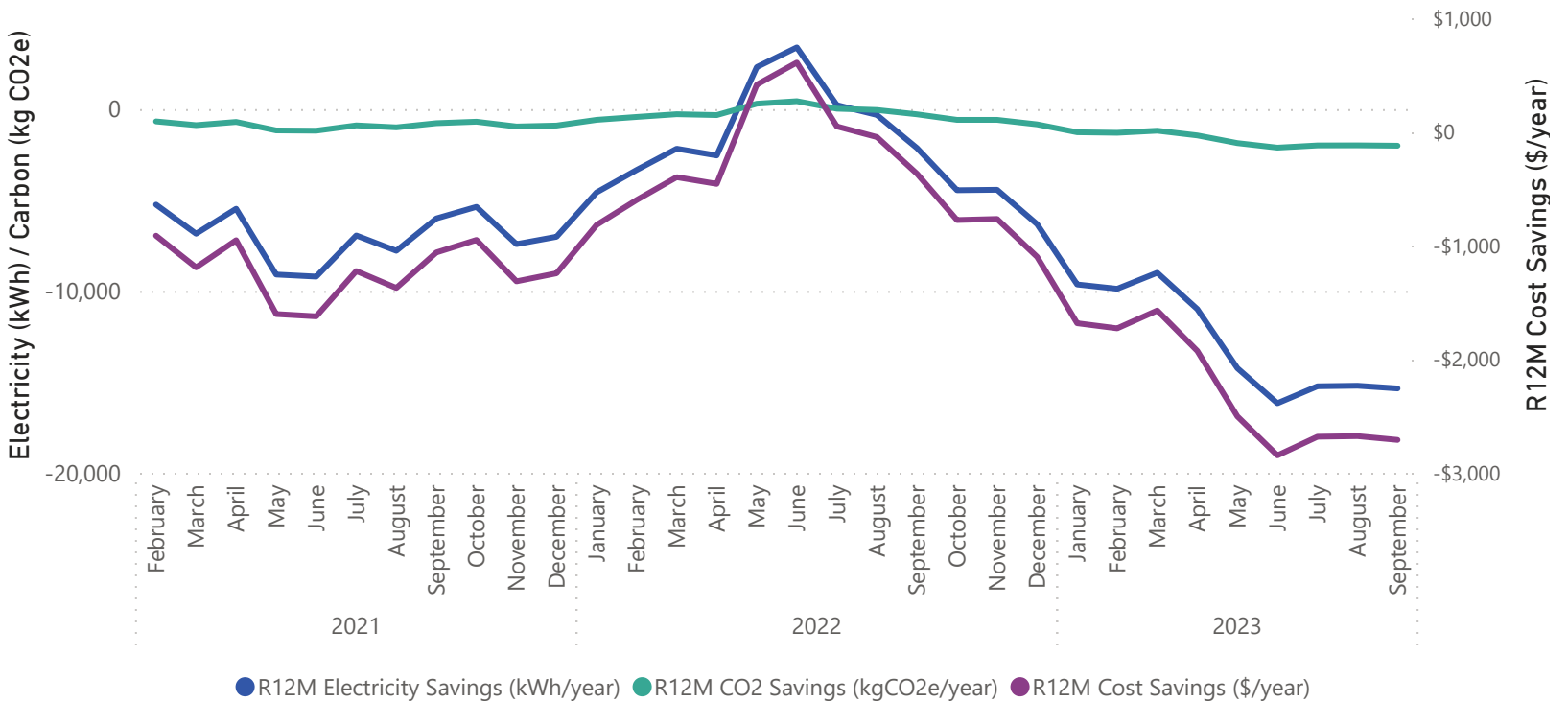
Whakatane District Council

Ohope Oxidation Ponds

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



Ohope Oxidation Ponds Rolling 12 Month Savings

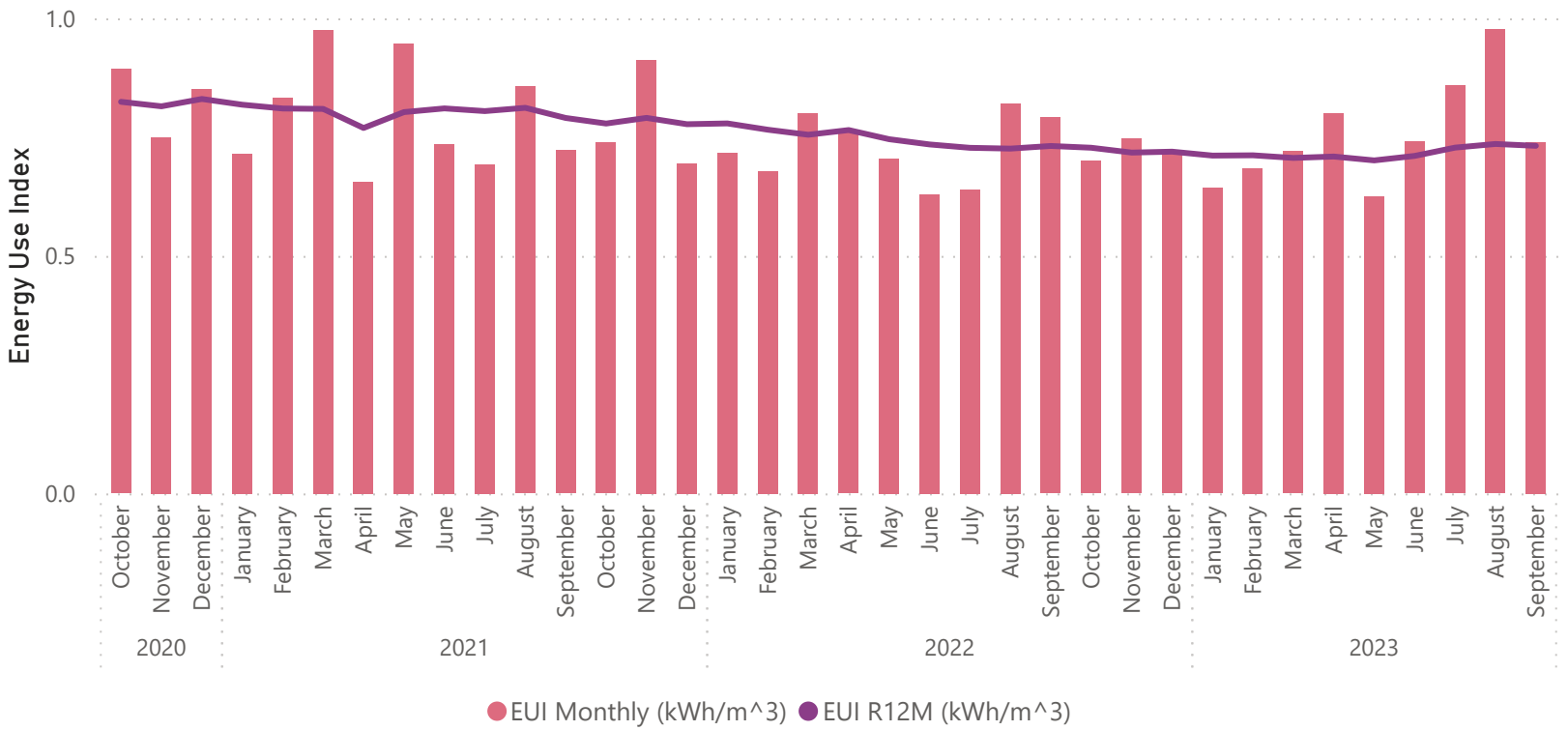


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

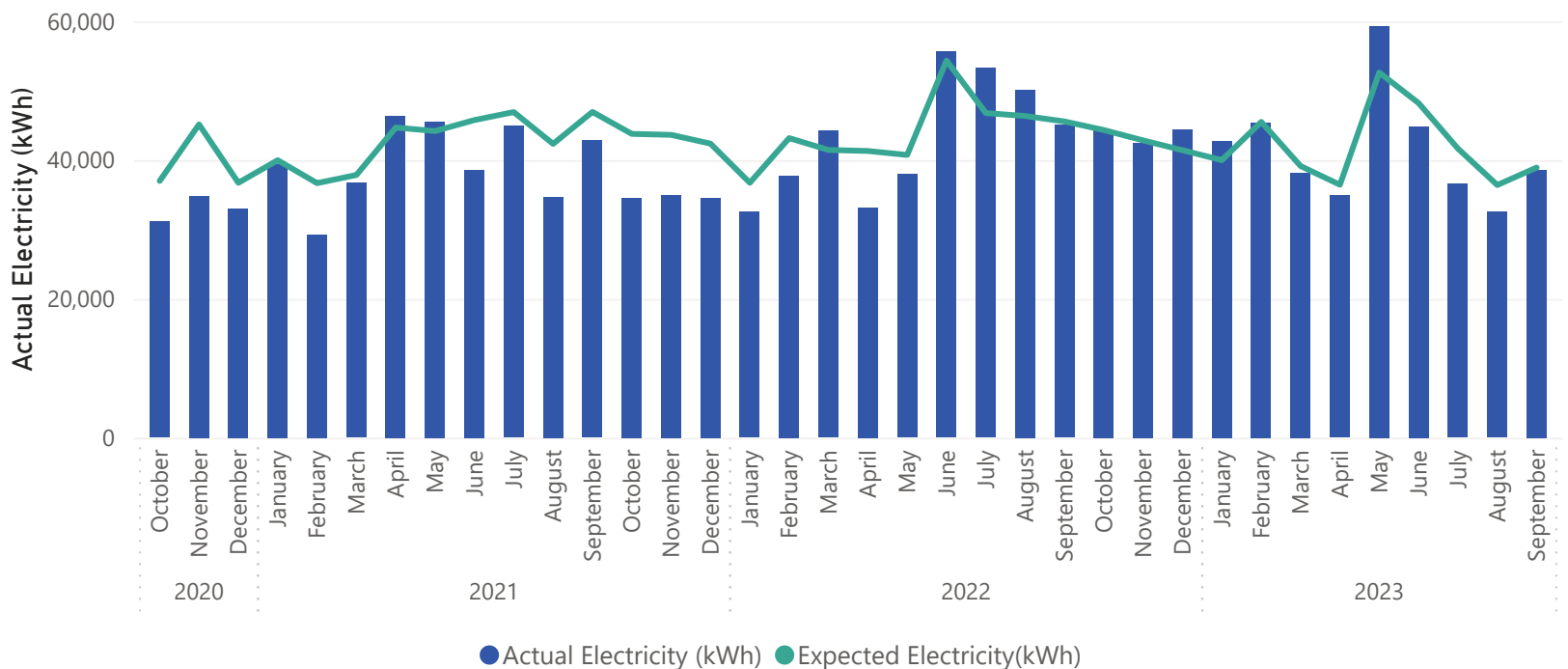
Whakatane Oxidation Ponds

<p>\$58</p> <p>Monthly Energy Cost Savings</p>	<p>321</p> <p>Elec. Savings (kWh/mo)</p>	<p>1%</p> <p>Elec. Savings (%)</p>	<p>3,282</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>42</p> <p>CO2e Savings (kg/mo)</p>
<p>\$825</p> <p>R12M Energy Cost Savings</p>				<p>430</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

The oxidation ponds used marginally less electricity than expected in September 2023. September 2023 was a month of higher than average rainfall, approximately 250mm of rain was recorded for the month. Rolling 12 month EUI is trending downwards, which is good, however, August and September were higher than average compared to the last 12 months.

Whakatane Oxidation Ponds Electricity Use Compared to Baseline (kWh)

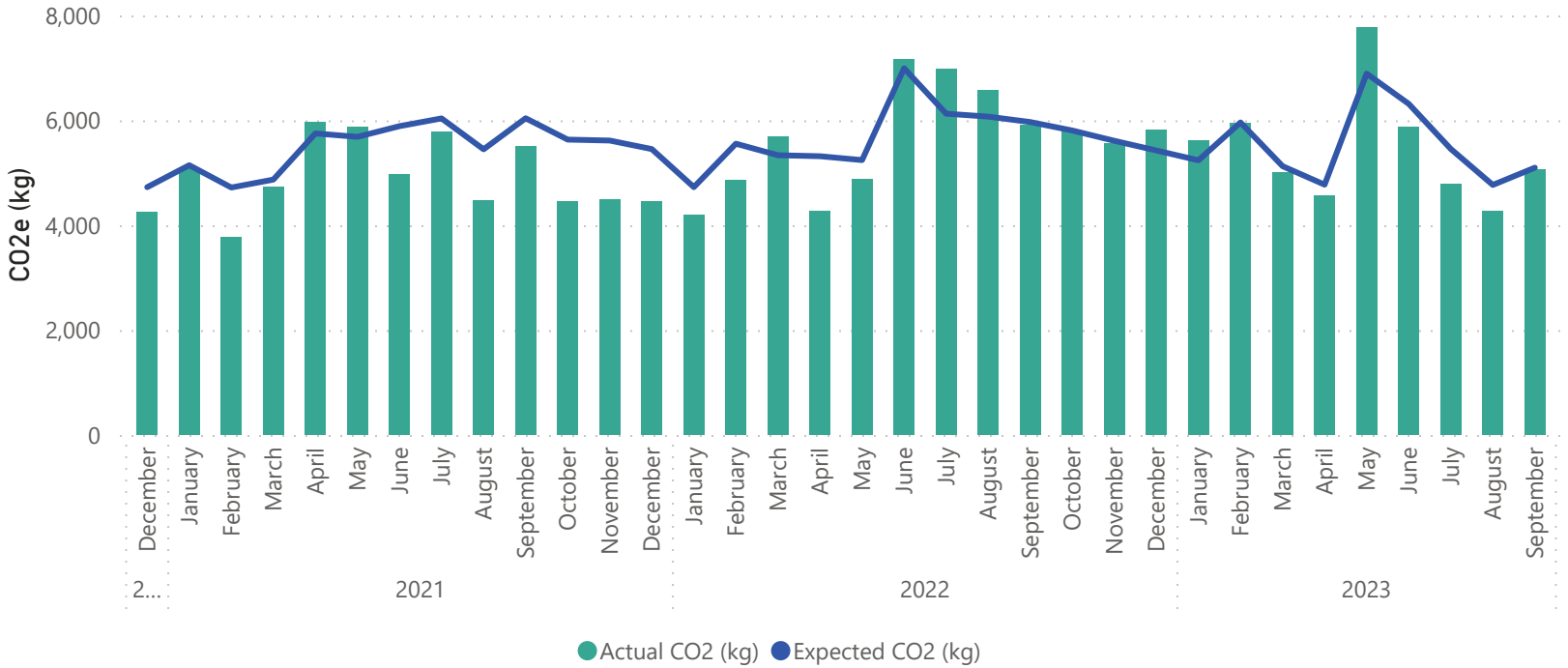


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

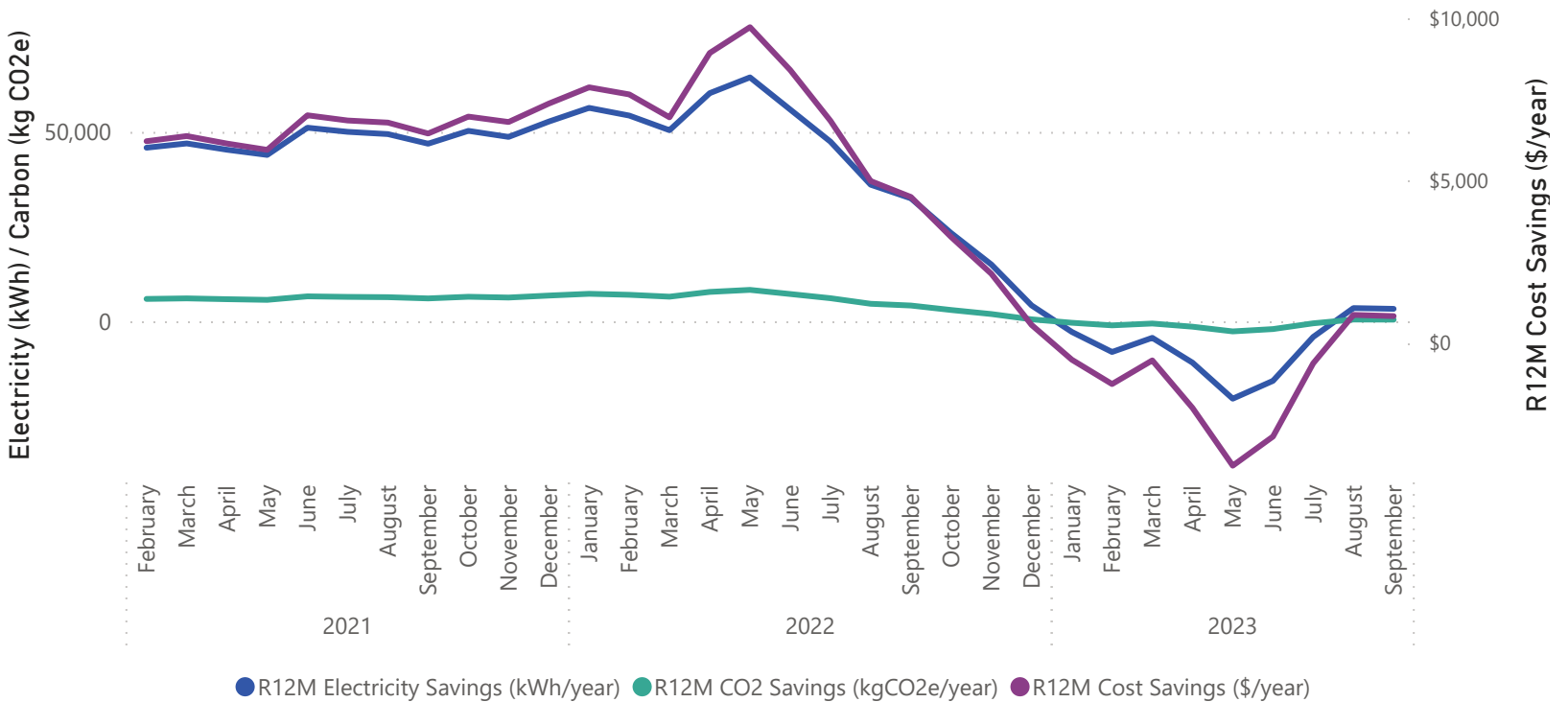
Whakatane District Council

Whakatane Oxidation Ponds

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



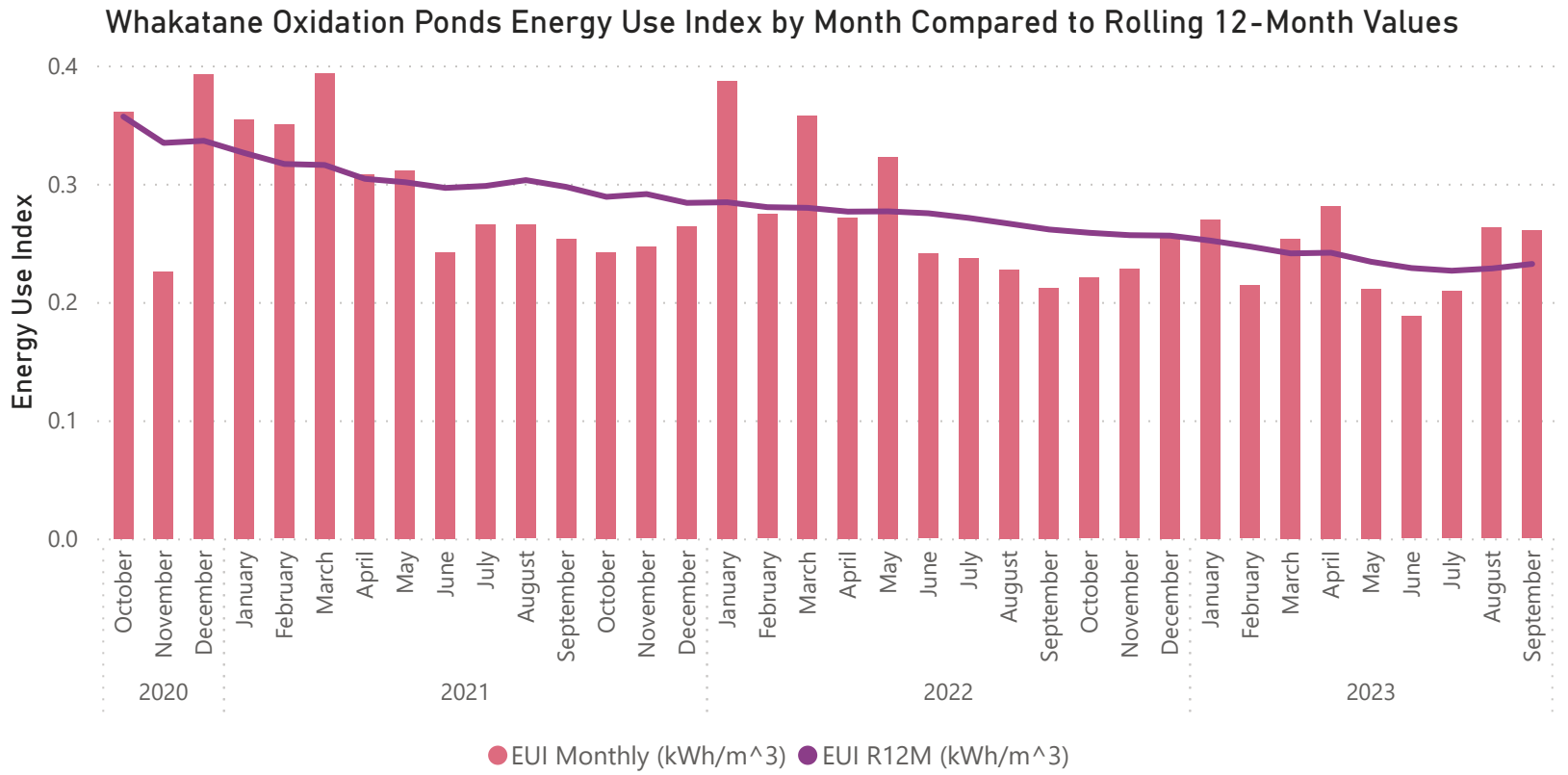
Whakatane Oxidation Ponds Rolling 12 Month Savings



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

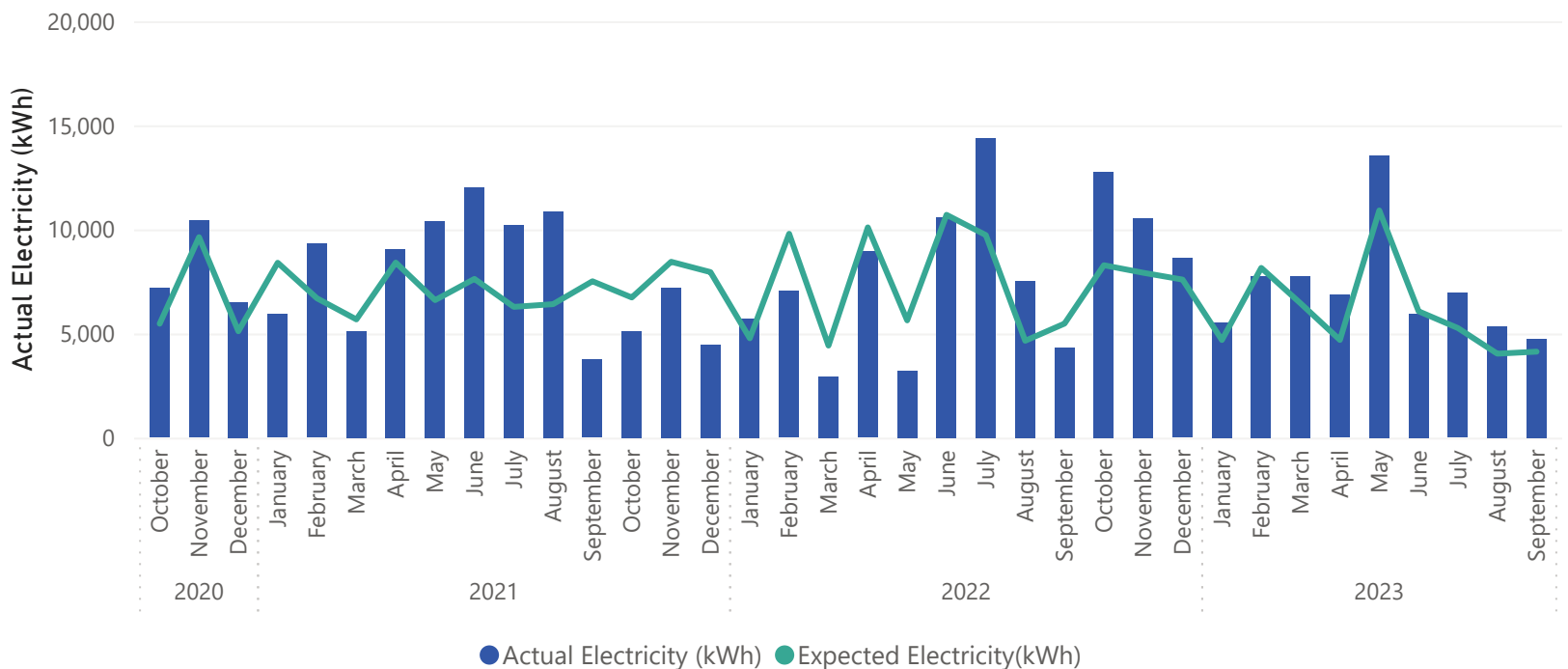
McAlister Street and Rose Garden Pump Stations

<p>\$74 Monthly Energy Cost Savings</p>	<p>-629 Elec. Savings (kWh/mo)</p>	<p>-15% Elec. Savings (%)</p>	<p>-18,182 R12M Electricity Savings (kWh/yr)</p>	<p>-82 CO2e Savings (kg/mo)</p>
<p>\$526 R12M Energy Cost Savings</p>				<p>-2,382 R12M CO2e Savings (kg/yr)</p>

Comments:

The pump stations used 15% more electricity than expected this month. Approximately 50mm of rain coincided within the billing period. Rainfall over the past 12 months averaged about 150mm per month.

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

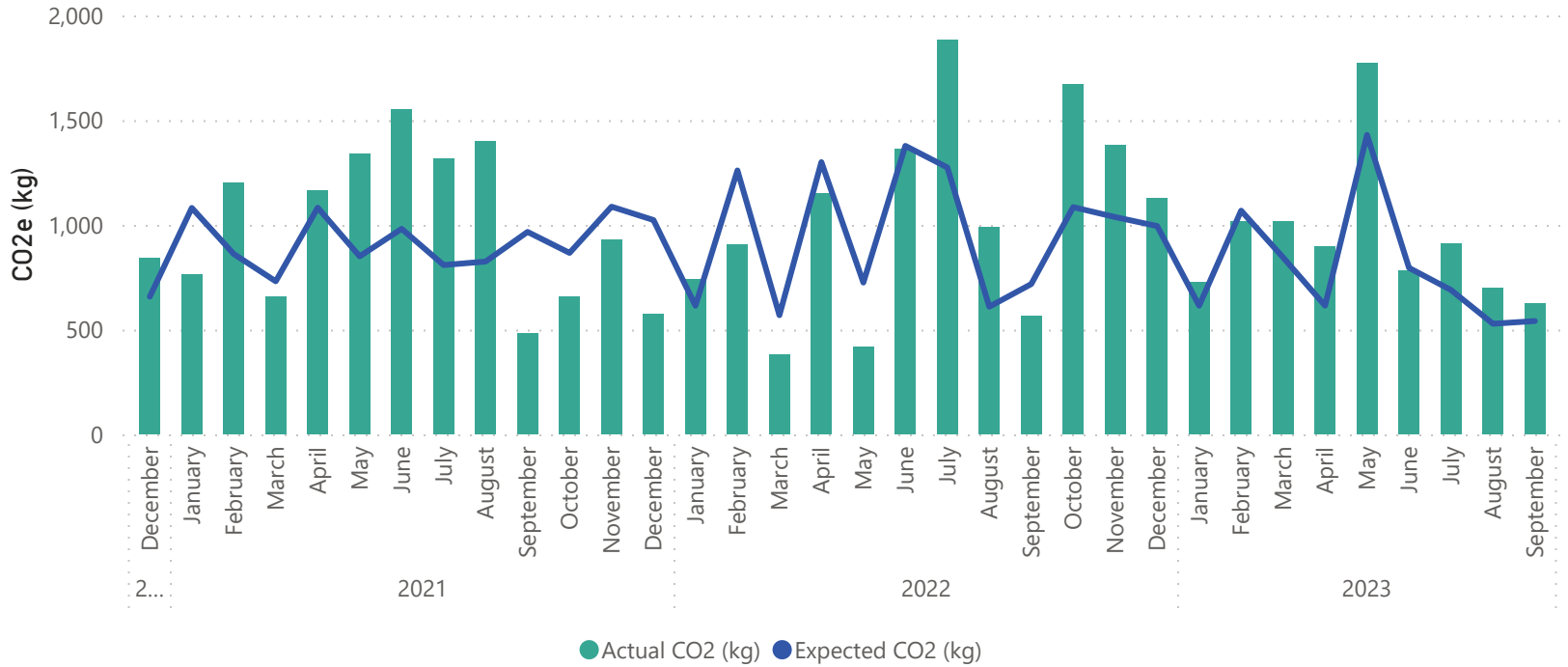


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

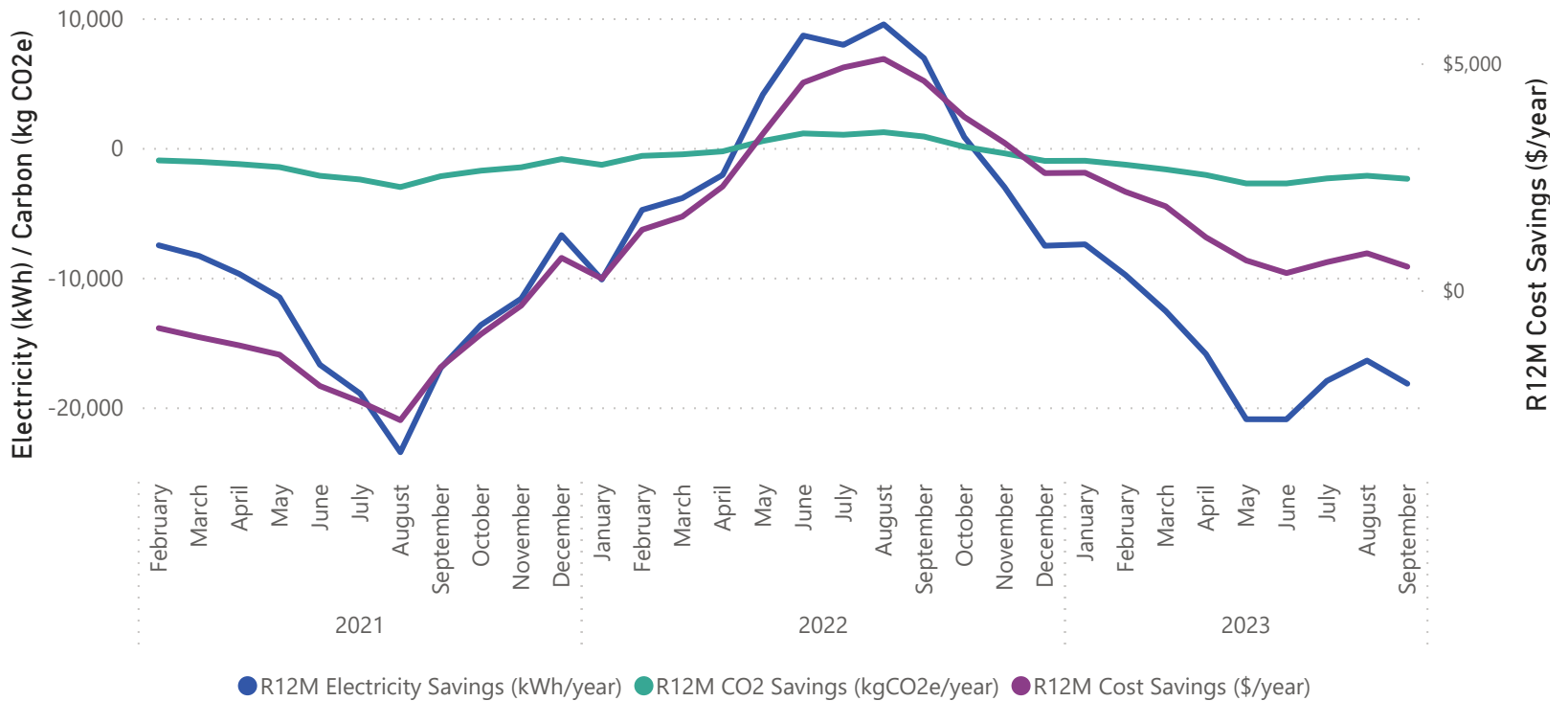
Whakatane District Council

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

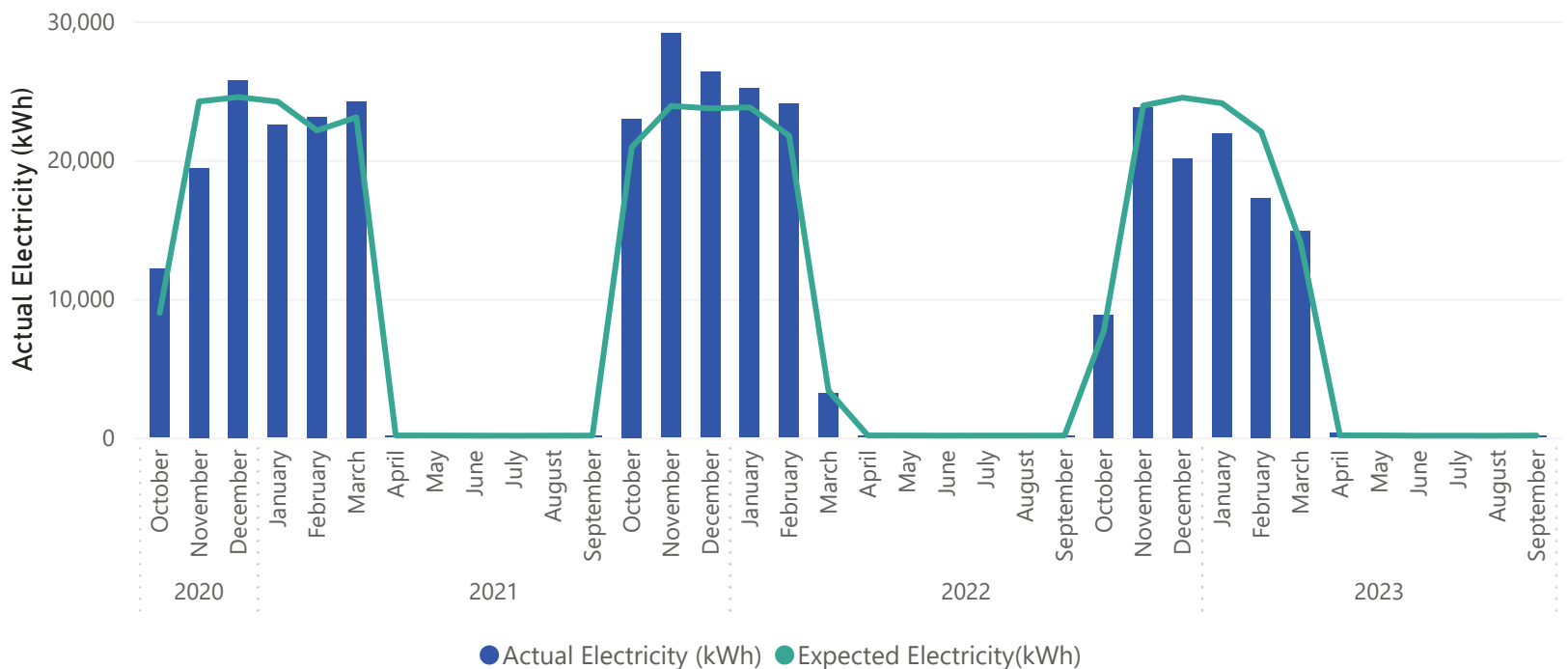
<p>\$11 Monthly Energy Cost Savings</p>	<p>60 Elec. Savings (kWh/mo)</p>	<p>40% Elec. Savings (%)</p>	<p>9,353 R12M Electricity Savings (kWh/yr)</p>	<p>8 CO2e Savings (kg/mo)</p>
<p>\$1,622 R12M Energy Cost Savings</p>				<p>1,225 R12M CO2e Savings (kg/yr)</p>

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)

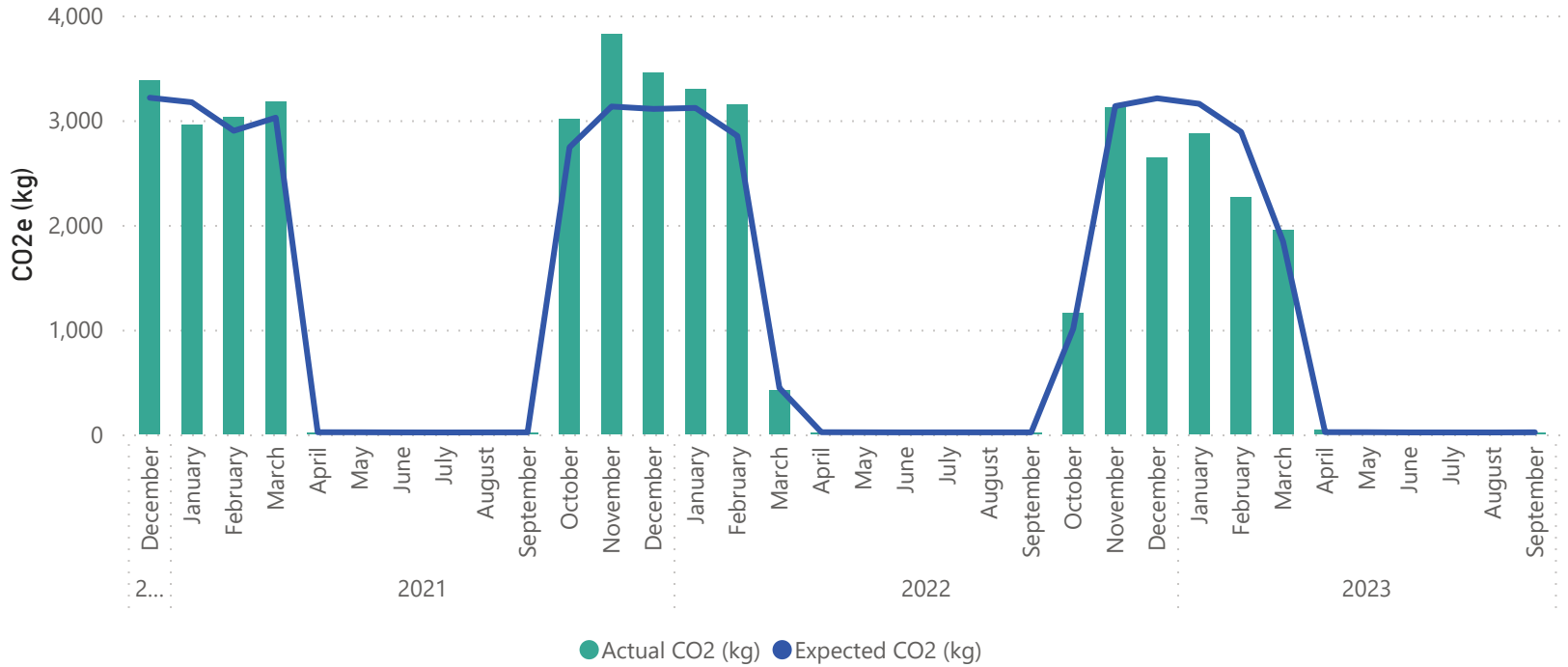


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time
Baselines were updated for all sites from July 2022.

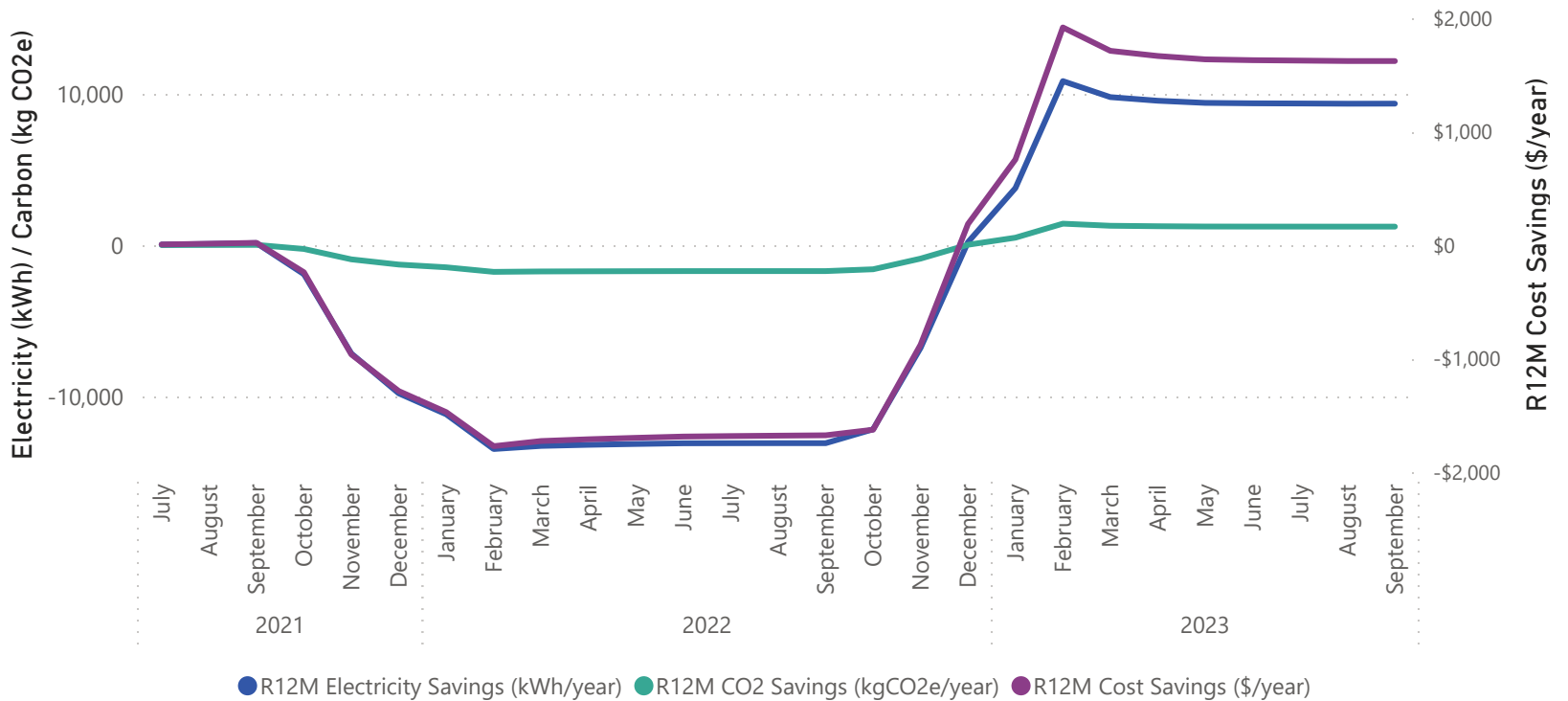
Whakatane District Council

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.**