

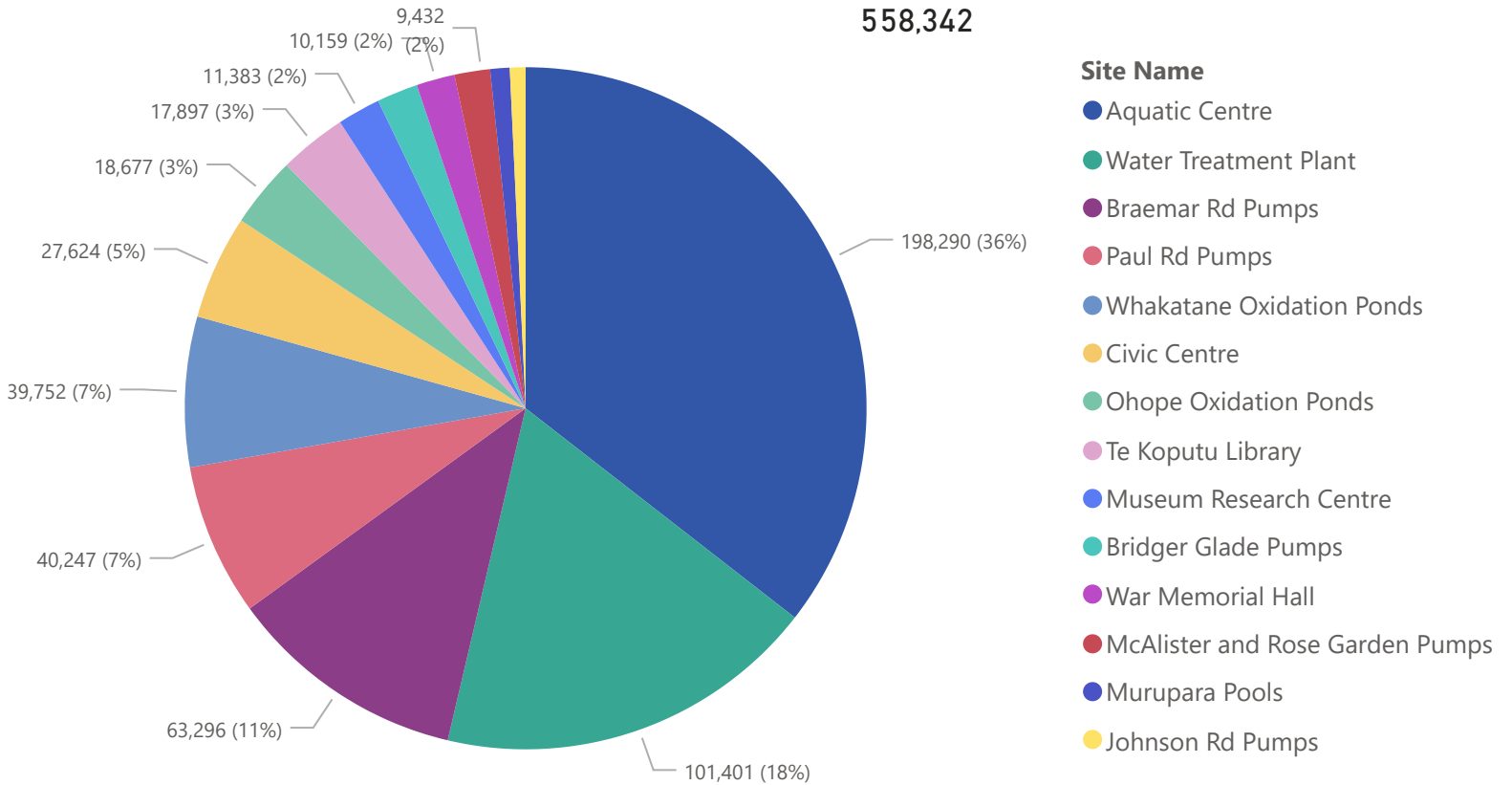
Whakatane District Council

Summary

<p>-\$407 Monthly Energy Cost Savings</p>	<p>20,500 Elec. Savings (kWh/mo)</p>	<p>4% Elec. Savings (%)</p>	<p>583,628 R12M Electricity Savings (kWh/yr)</p>	<p>-7,988 CO2e Savings (kg/mo)</p>
<p>\$92,735 R12M Energy Cost Savings</p>	<p>-48,153 Gas. Savings (kWh/mo)</p>	<p>-116% Gas. Savings (%)</p>	<p>-206,263 R12M Gas Savings (kWh/yr)</p>	<p>6,839 R12M CO2e Savings (kg/yr)</p>

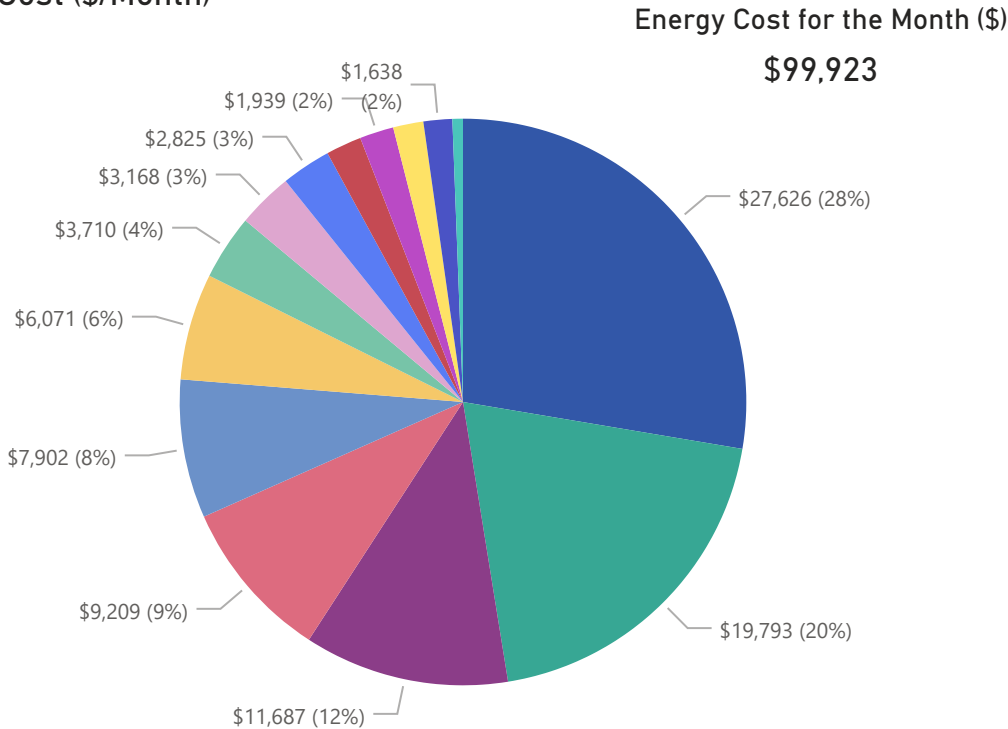
Total Energy (kWh/Month)

Total Energy Used for the Month (kWh)
558,342



Whakatane District Council Summary

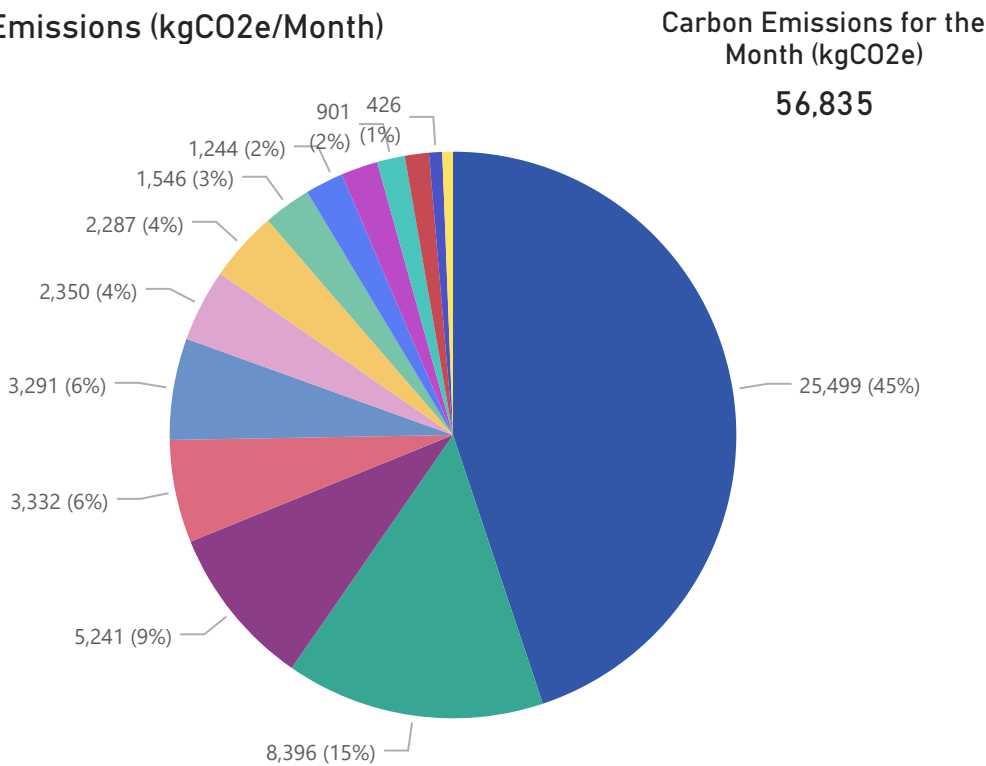
Energy Cost (\$/Month)



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
- McAlister and Rose Garden Pumps
- War Memorial Hall
- Johnson Rd Pumps
- Murupara Pools
- Bridger Glade Pumps

Carbon Emissions (kgCO2e/Month)



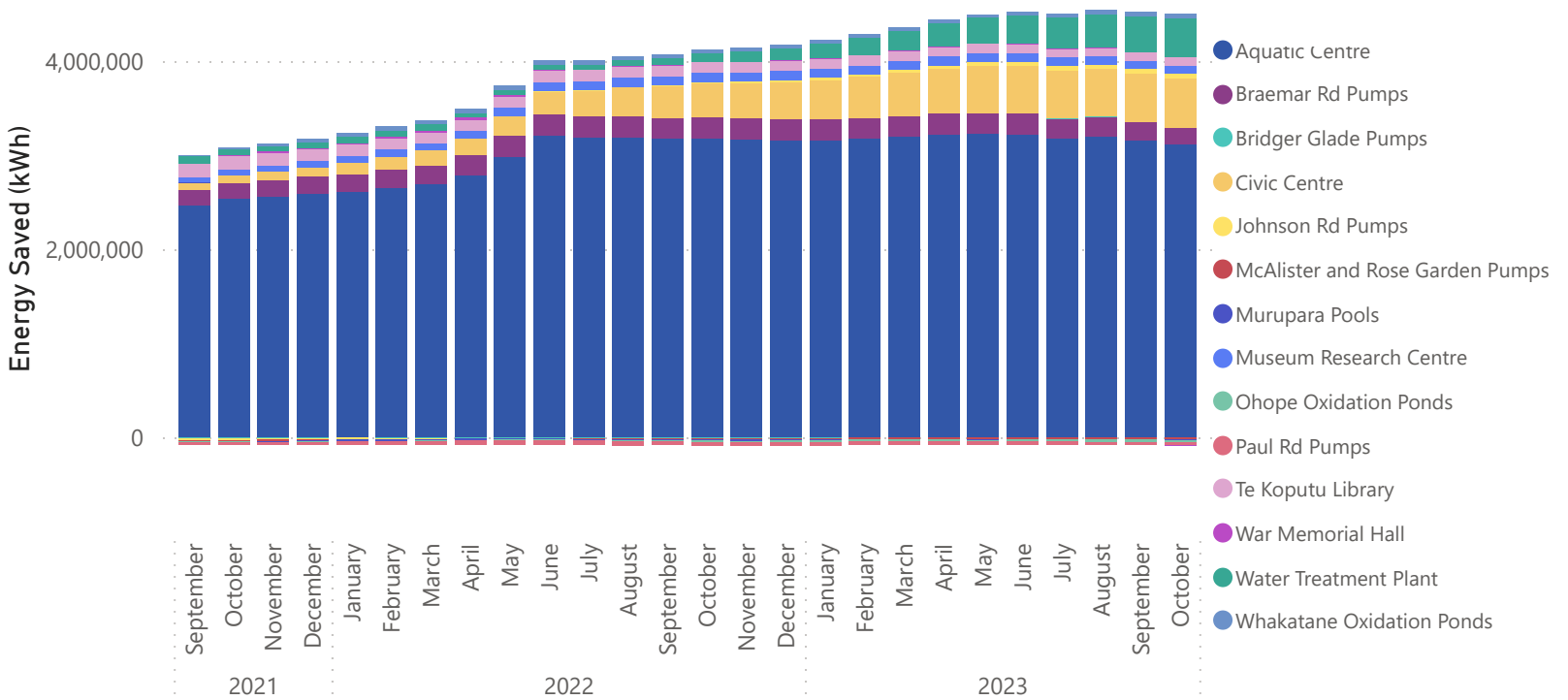
Site Name

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- Johnson Rd Pumps

Whakatane District Council

Summary

Cumulative Energy Savings (kWh)



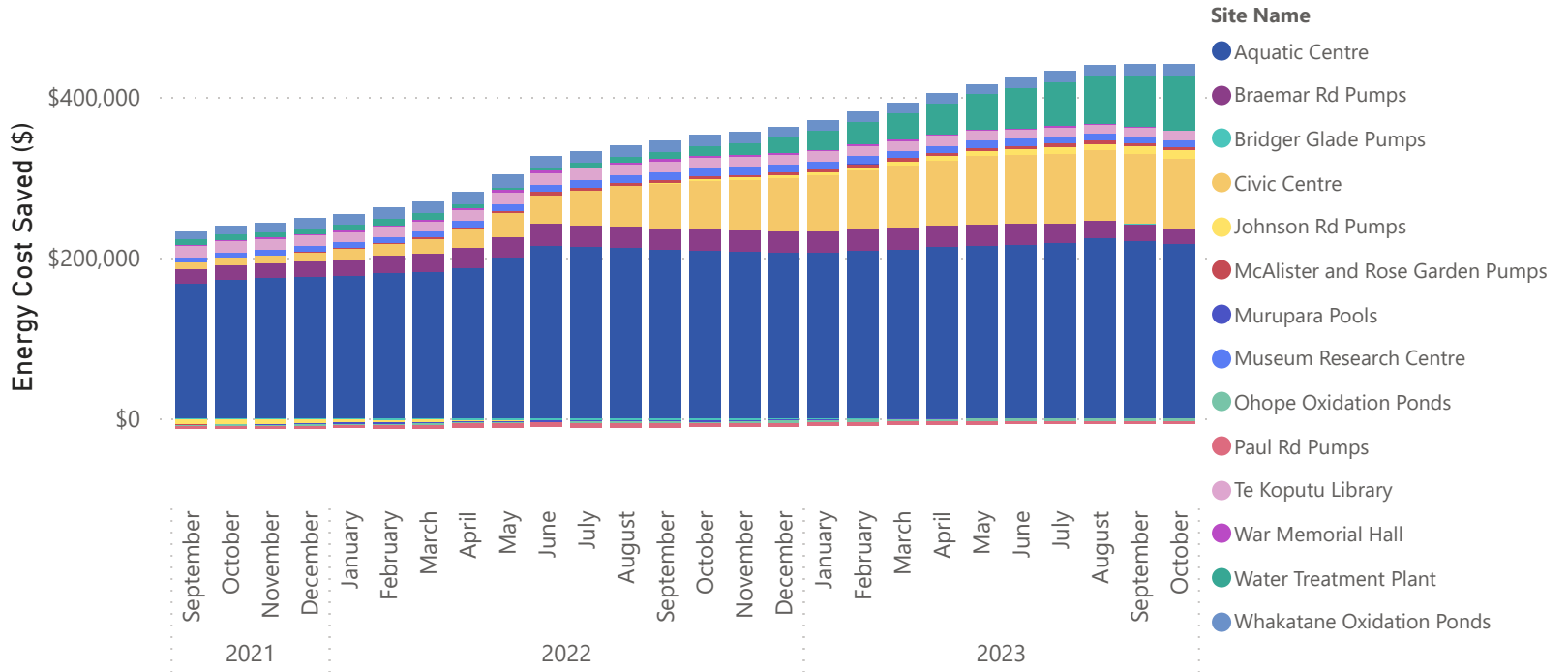
Note, cumulative savings are calculated starting July 2018

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

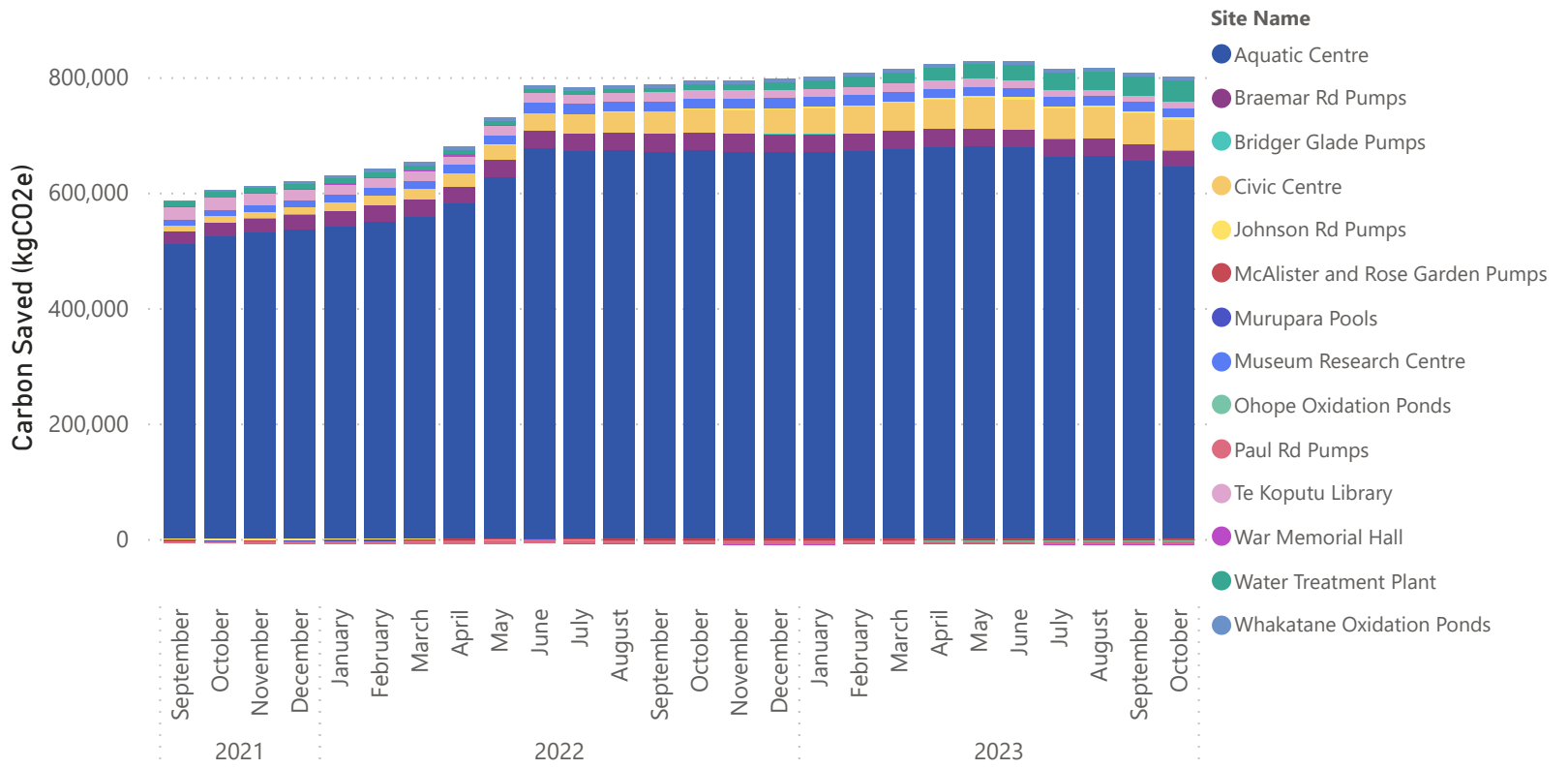
Summary

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

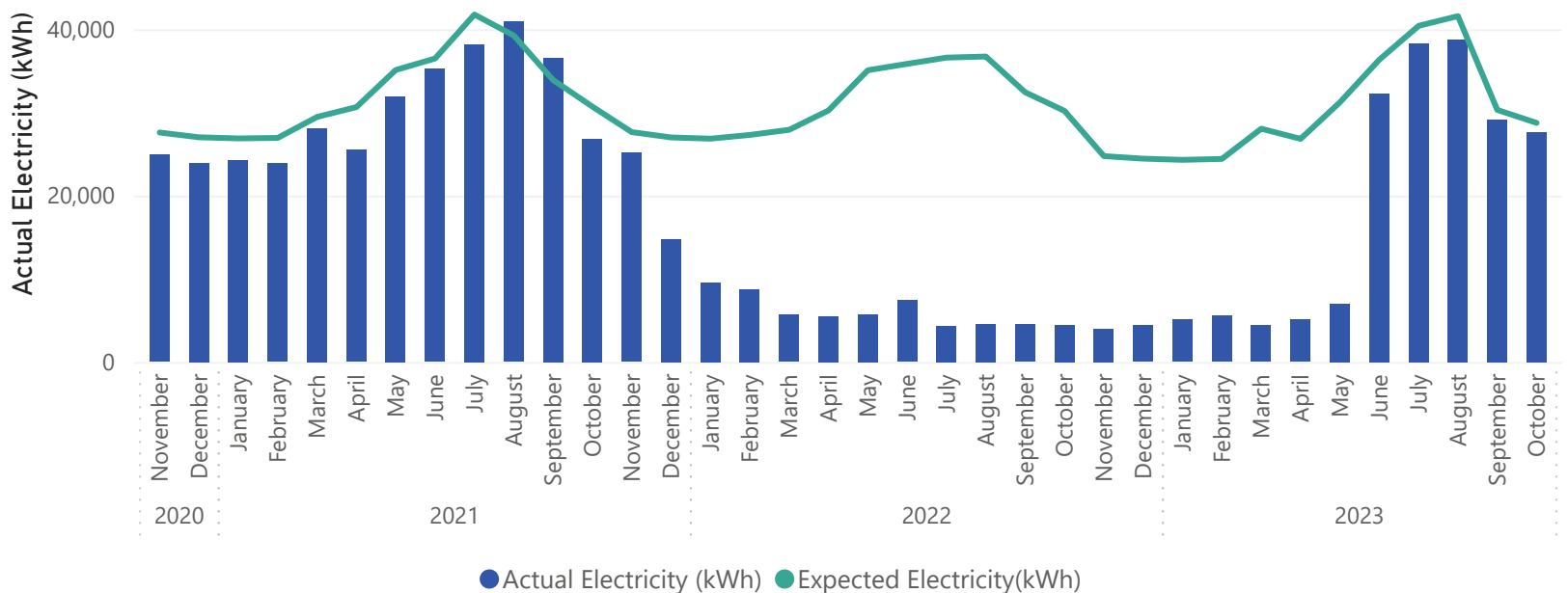
<p>\$174 Monthly Energy Cost Savings</p>	<p>1,111 Elec. Savings (kWh/mo)</p>	<p>4% Elec. Savings (%)</p>	<p>159,766 R12M Electricity Savings (kWh/yr)</p>	<p>92 CO2e Savings (kg/mo)</p>
<p>\$27,850 R12M Energy Cost Savings</p>				<p>13,229 R12M CO2e Savings (kg/yr)</p>

Comments:

The Civic Centre has returned to normal operation after ongoing refurbishments. It can be seen from TOU electricity afterhours reduced significantly from 11 October: afterhours electricity averaged 39 kW from 1-10 October, and 19 kW from 11-31 October. Compared to September, both peak demand and afterhours electricity have decreased in October, which is good. Peak demand has decreased by 5 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.

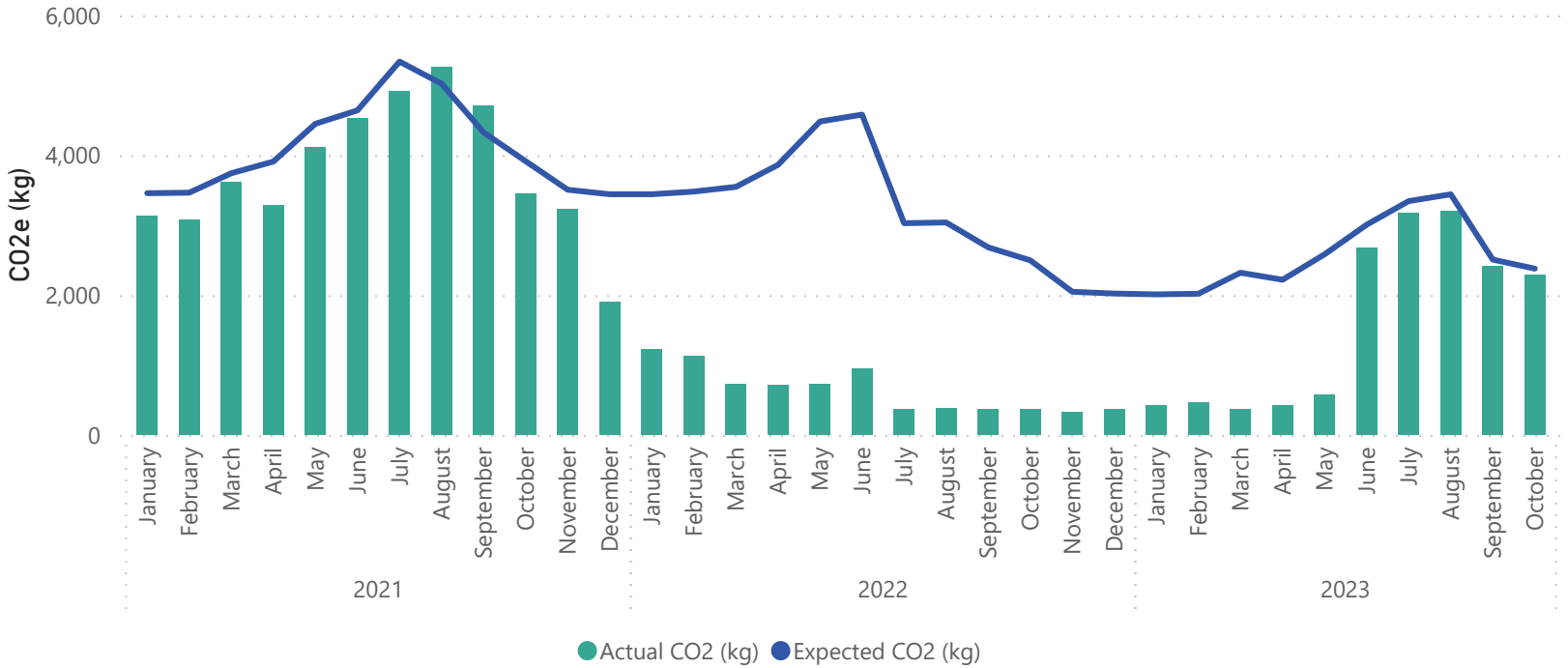
Civic Centre Electricity Use Compared to Baseline (kWh)



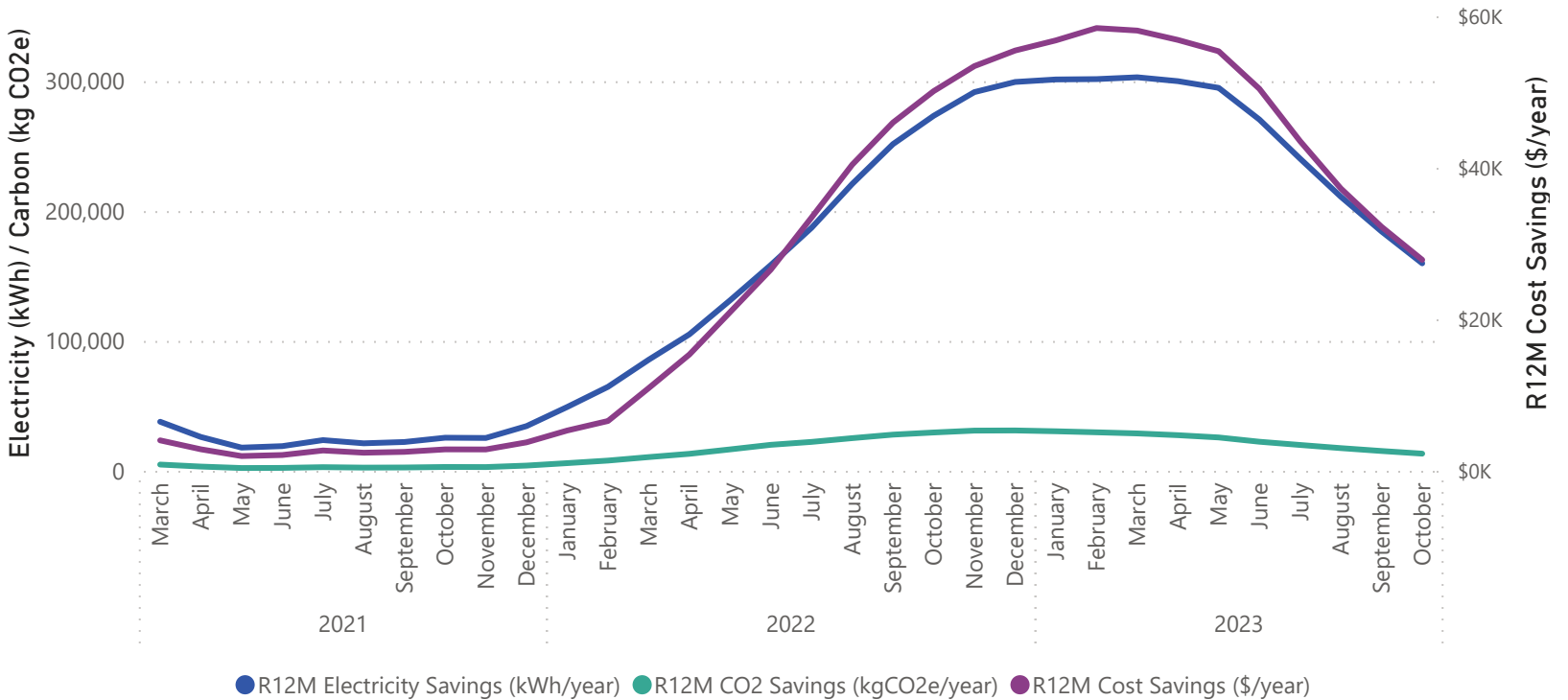
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Civic Centre

Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



Civic Centre Rolling 12 Month Savings

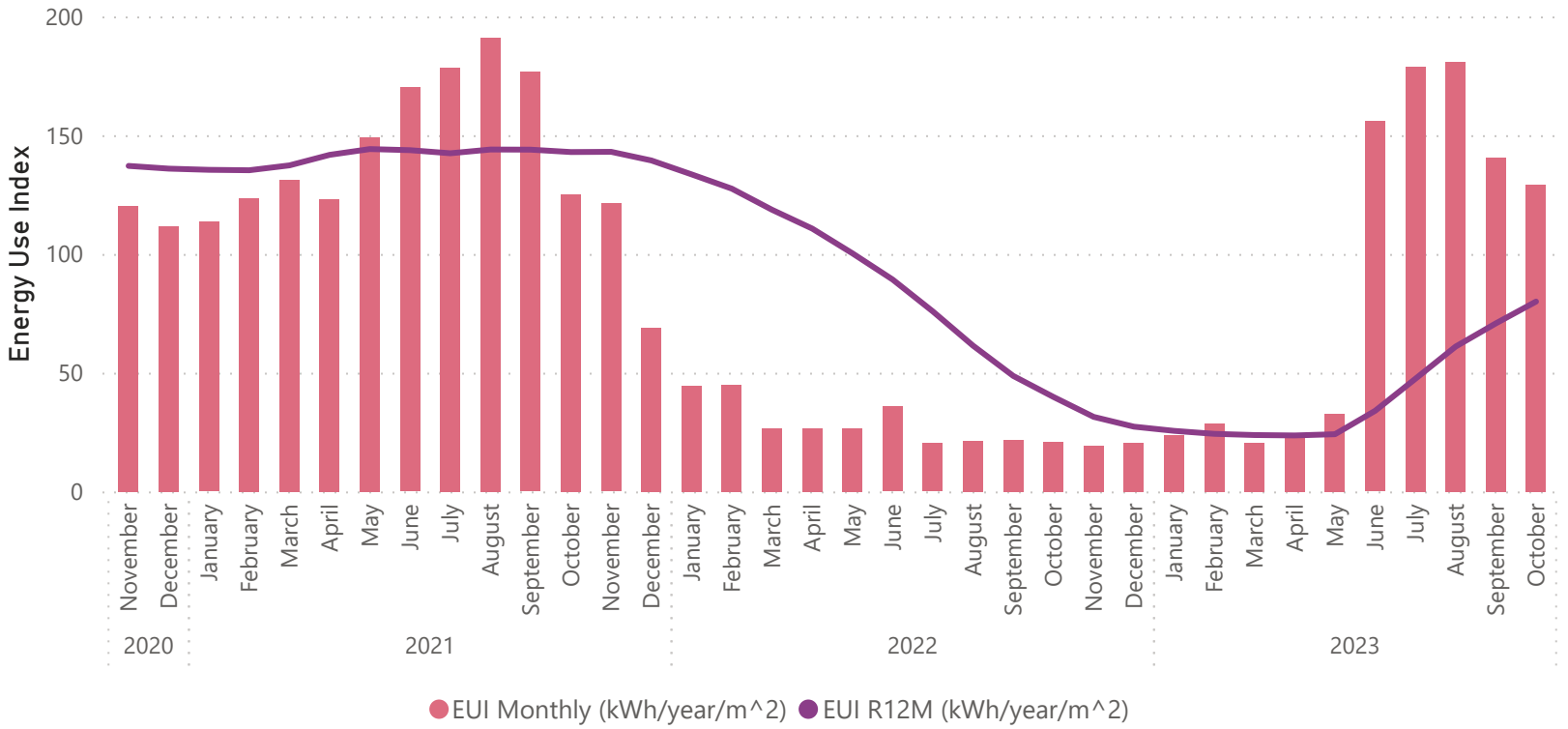


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Civic Centre

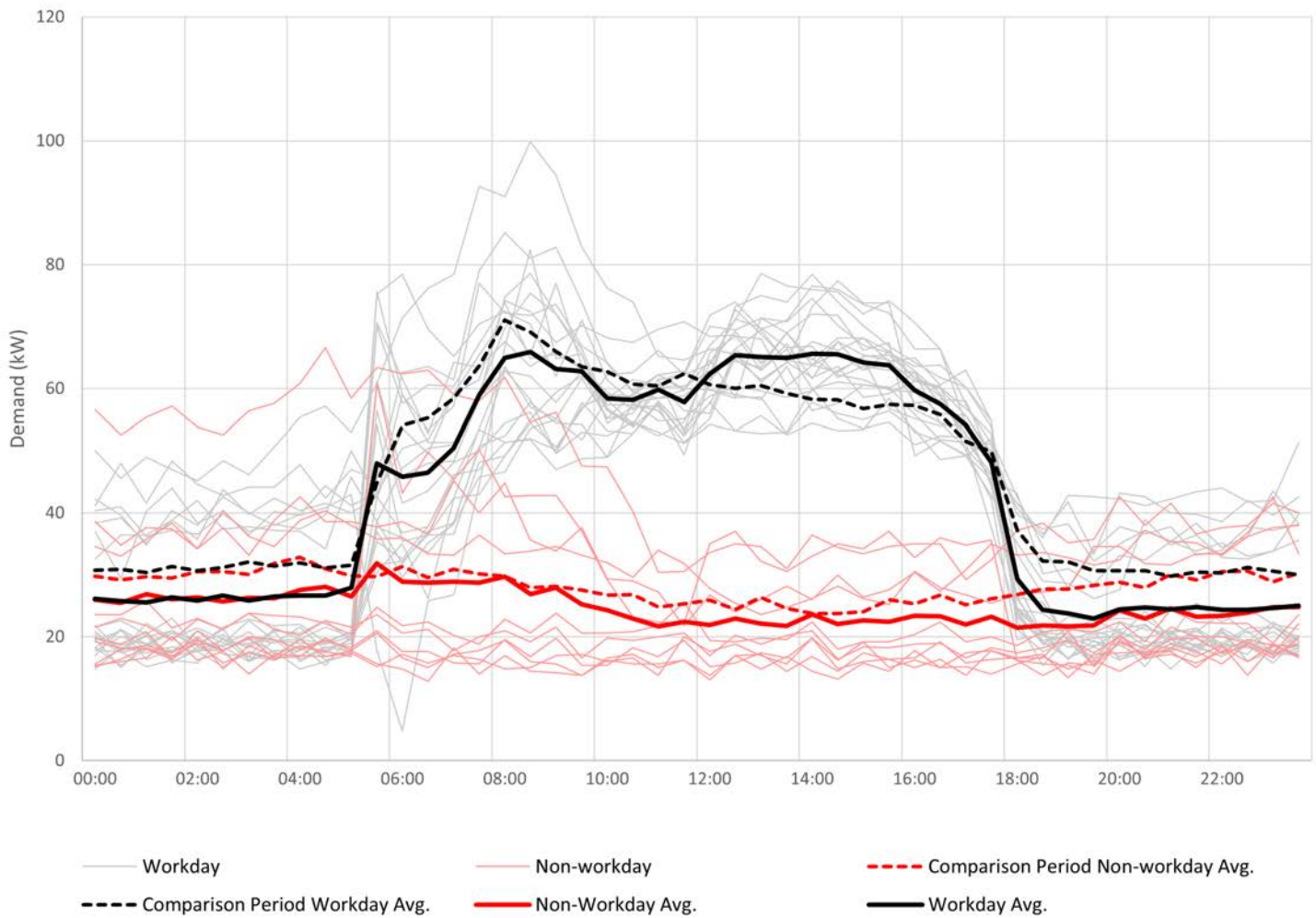
Civic Centre Energy Use Index by Month Compared to Rolling 12-Month Values



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
Baselines were updated for all sites from July 2022.

Whakatane District Council Civic Centre

24hr Load Profiles 1/10/2023 - 31/10/2023 Compared to 1/09/2023 - 30/09/2023



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Baselines were updated for all sites from July 2022.

Whakatane District Council

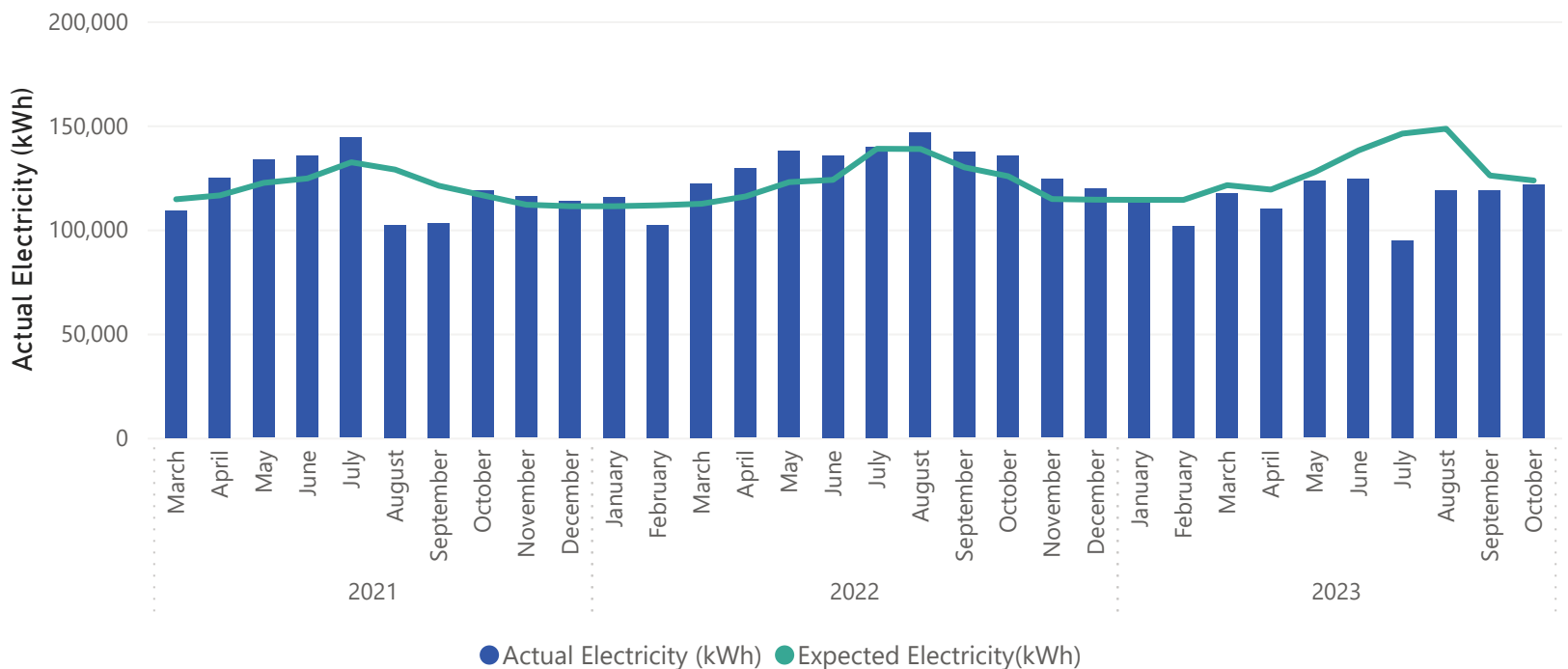
Aquatic Centre

<p>-\$4,079</p> <p>Monthly Energy Cost Savings</p>	<p>1,954</p> <p>Elec. Savings (kWh/mo)</p>	<p>2%</p> <p>Elec. Savings (%)</p>	<p>117,337</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>- 10,207</p> <p>CO2e Savings (kg/mo)</p>
<p>\$7,402</p> <p>R12M Energy Cost Savings</p>	<p>- 51,551</p> <p>Gas. Savings (kWh/mo)</p>	<p>-205%</p> <p>Gas. Savings (%)</p>	<p>- 187,729</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-28,042</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was less than baseline in October 2023, gas was three times more 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)

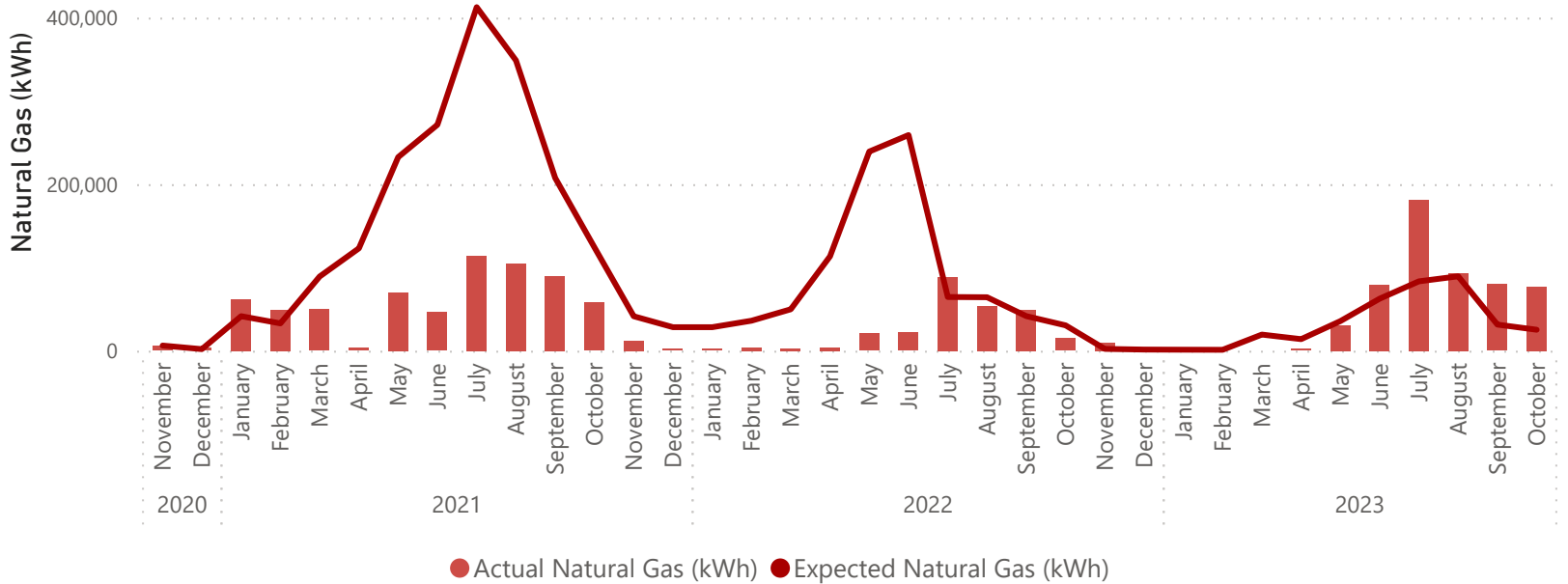


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

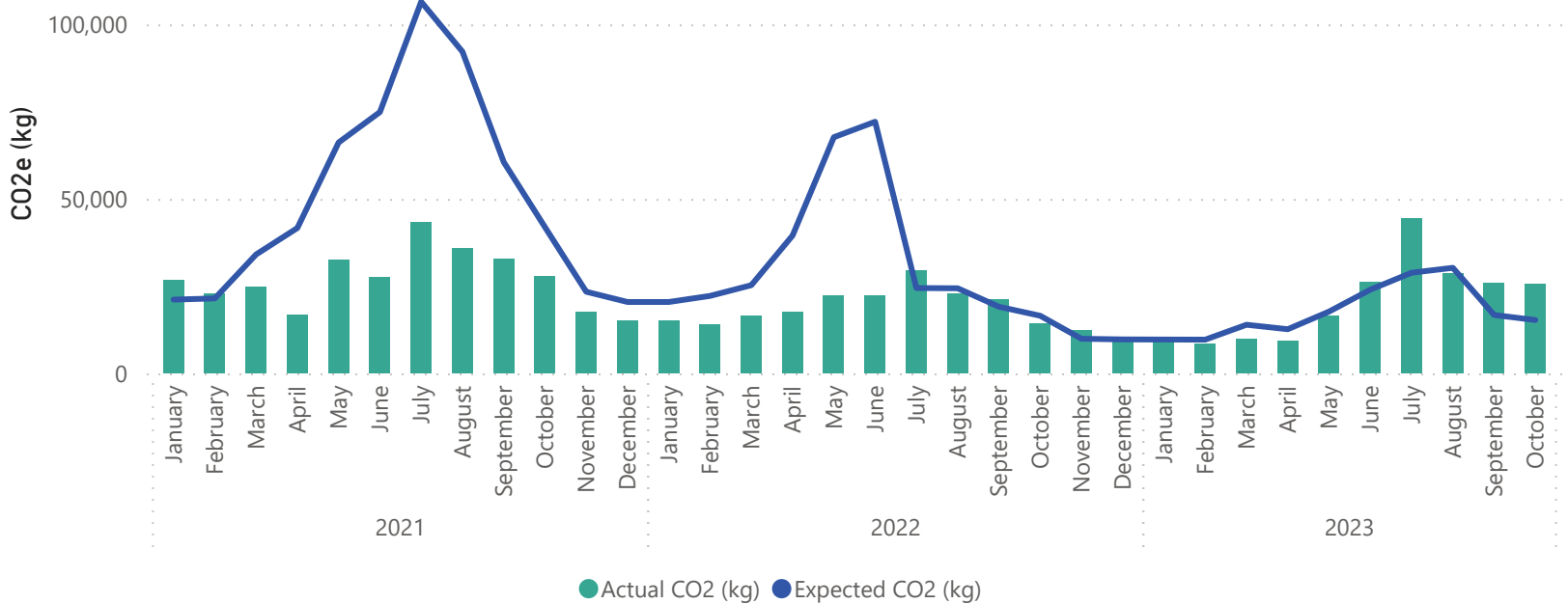
Whakatane District Council

Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

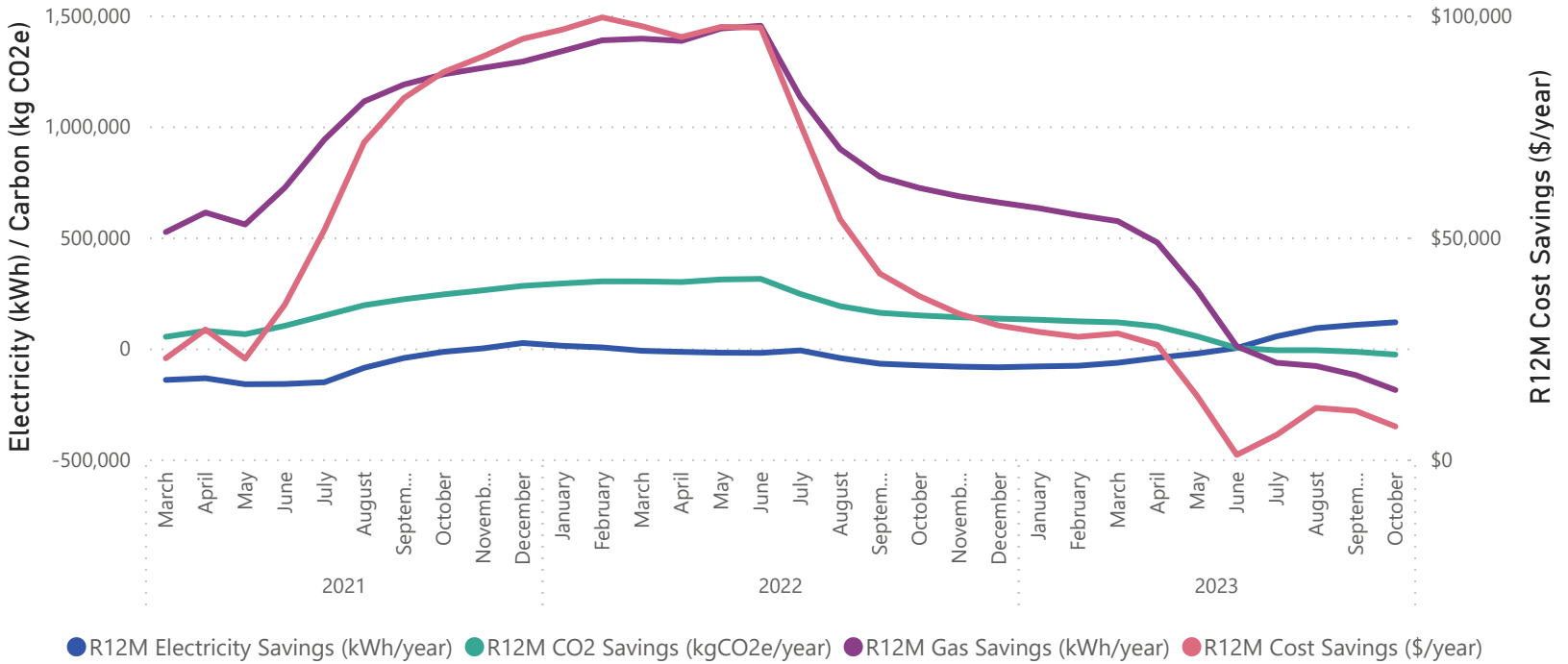


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

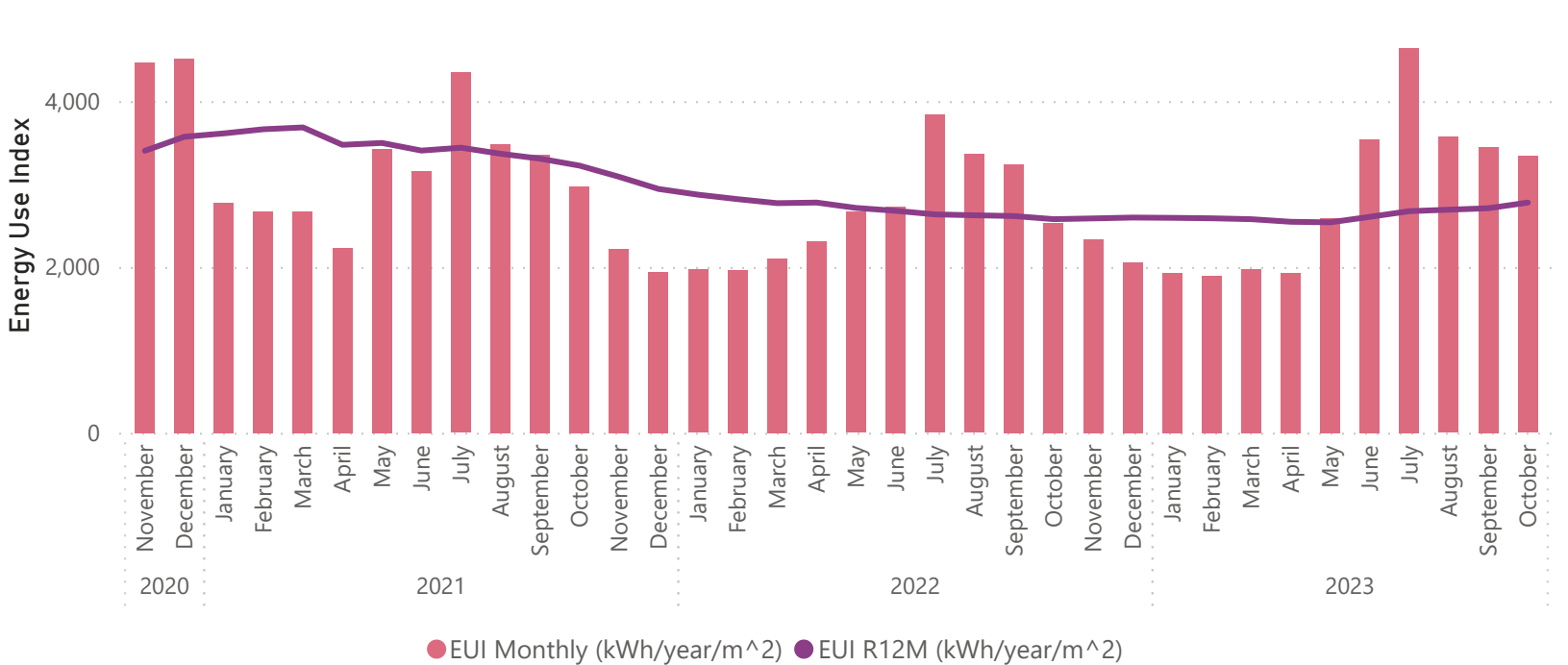
Whakatane District Council

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

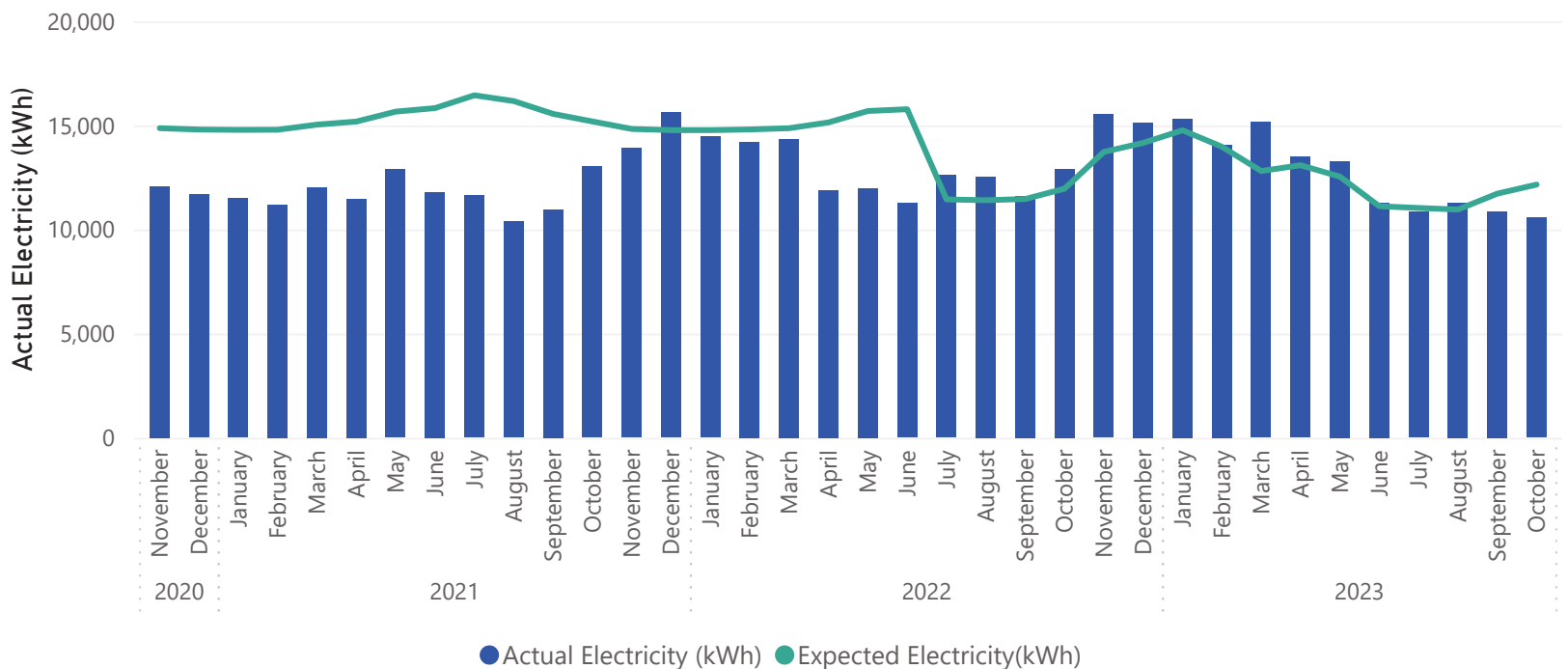
<p>\$551</p> <p>Monthly Energy Cost Savings</p>	<p>1,597</p> <p>Elec. Savings (kWh/mo)</p>	<p>13%</p> <p>Elec. Savings (%)</p>	<p>-4,740</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>837</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$1,950</p> <p>R12M Energy Cost Savings</p>	<p>3,504</p> <p>Gas. Savings (kWh/mo)</p>	<p>32%</p> <p>Gas. Savings (%)</p>	<p>-13,593</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-3,126</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity and natural gas use was significantly less than expected for the month, an excellent result. Both natural gas and electricity use has declined for the past three months.

The Library's EUI for the month is 32% less than average compared to the last 12 months, which is great.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

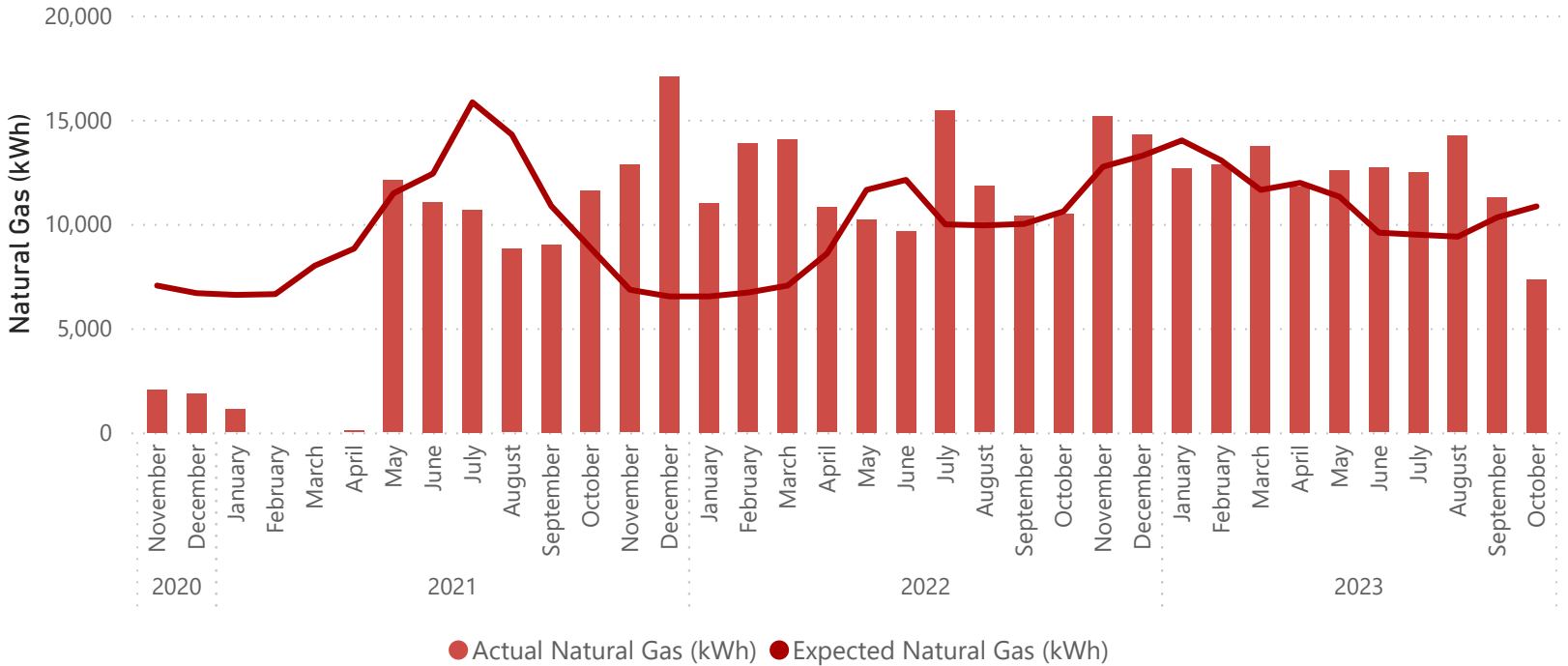


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

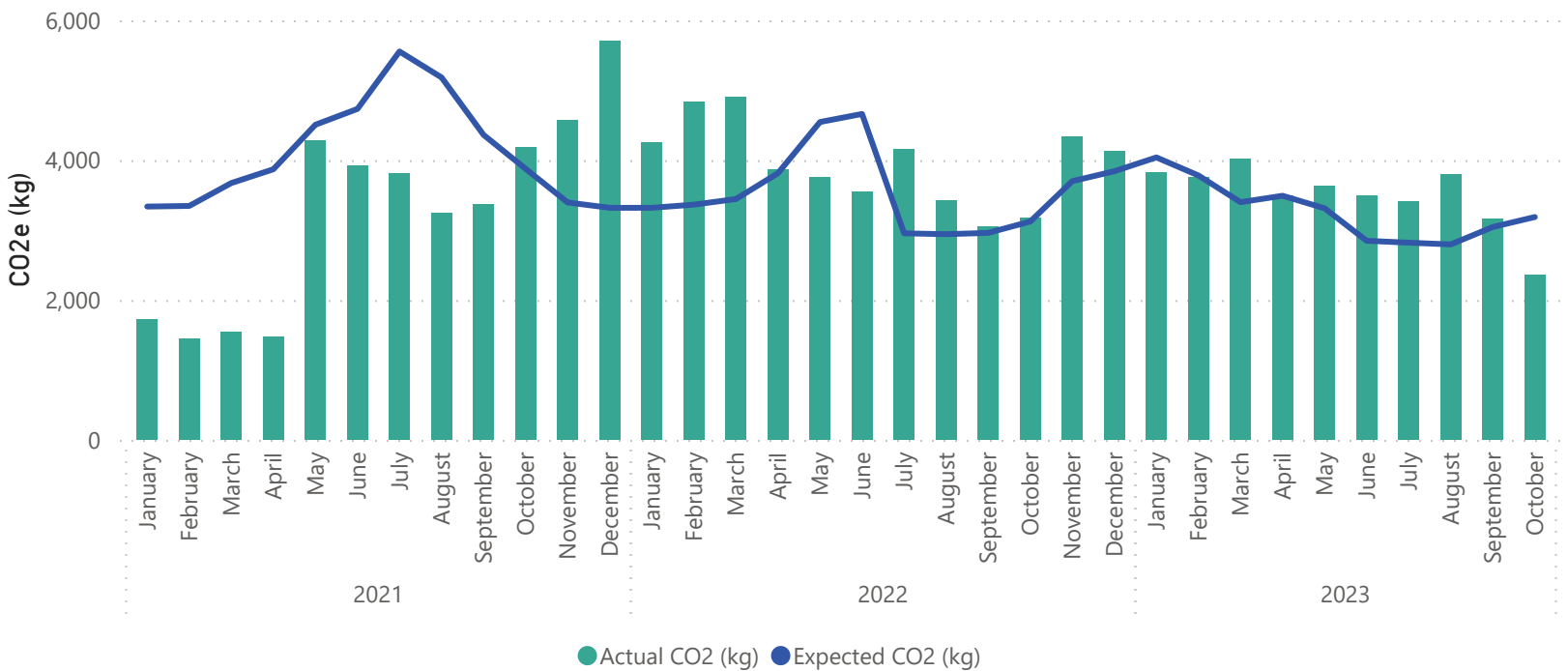
Whakatane District Council

Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



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

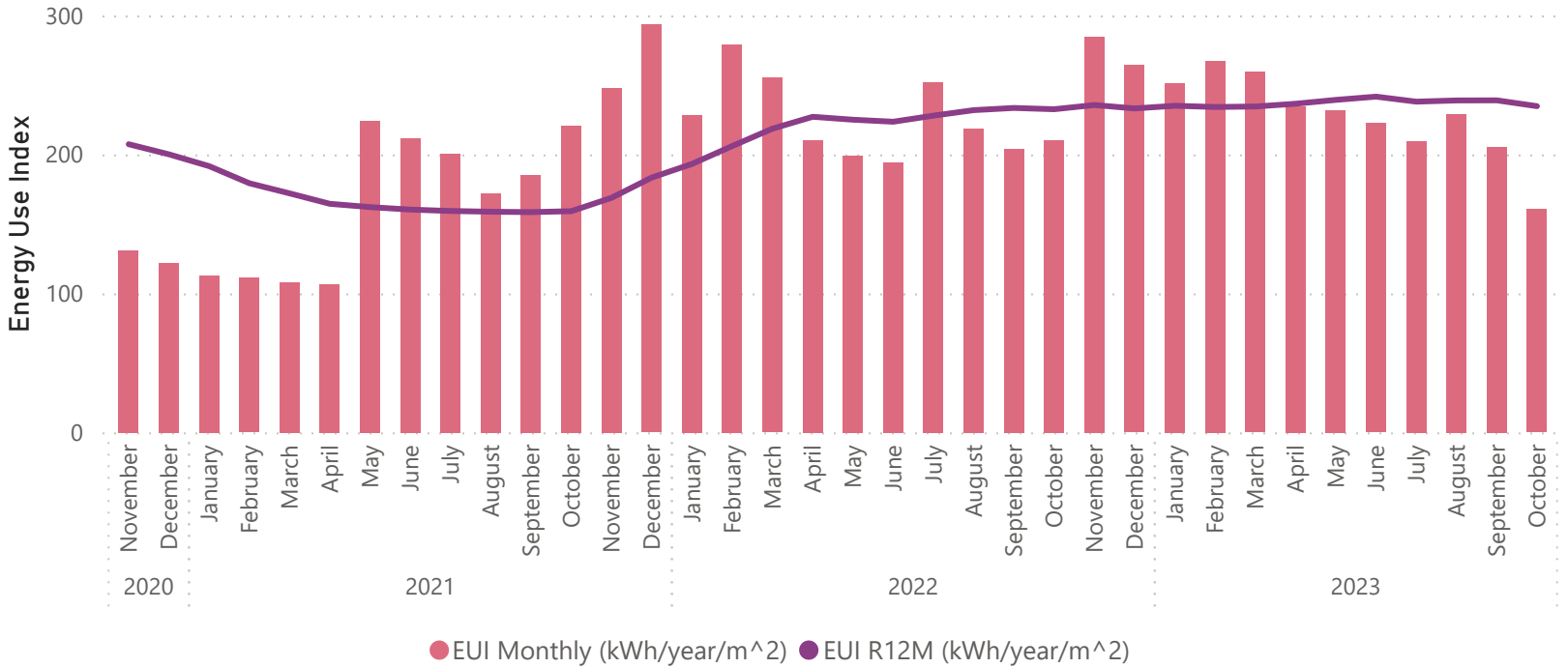


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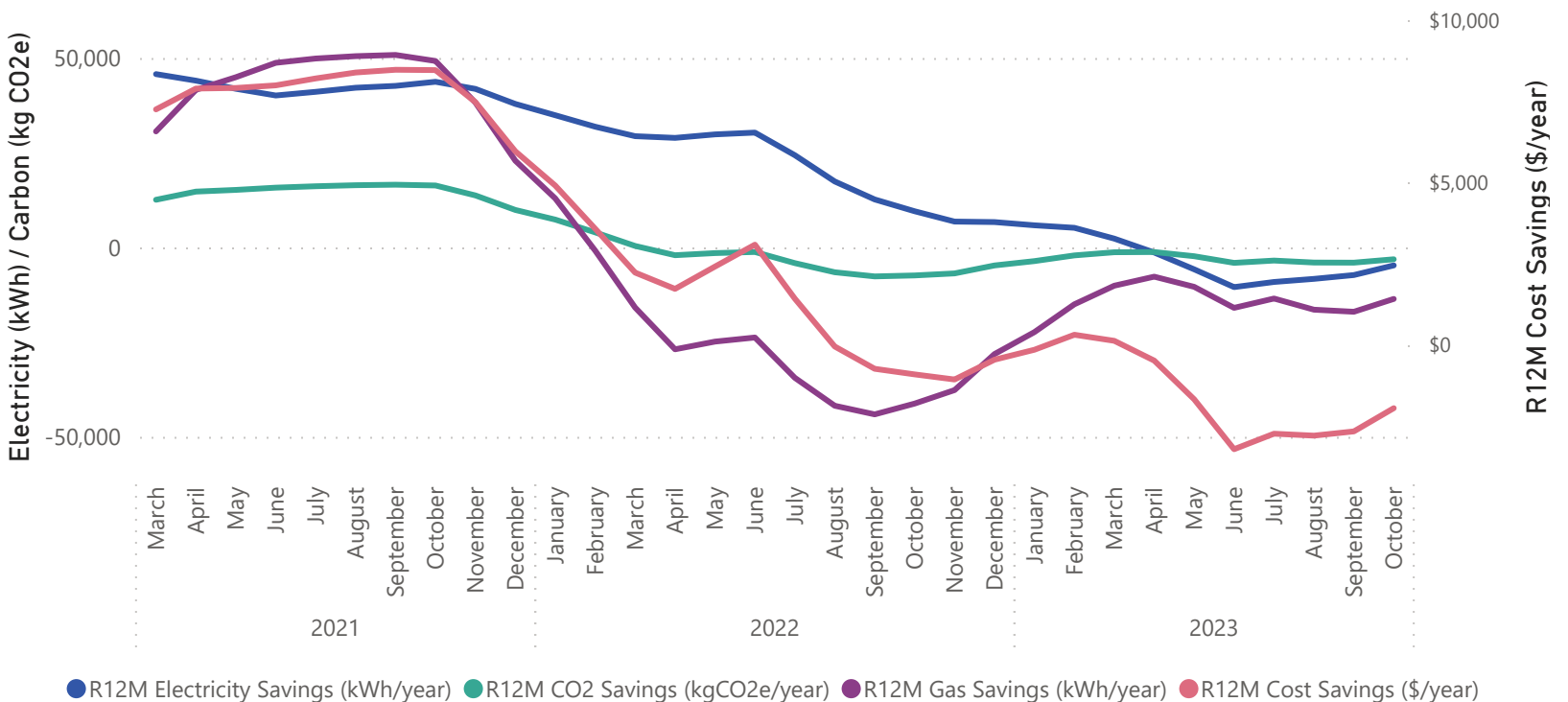
Whakatane District Council

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

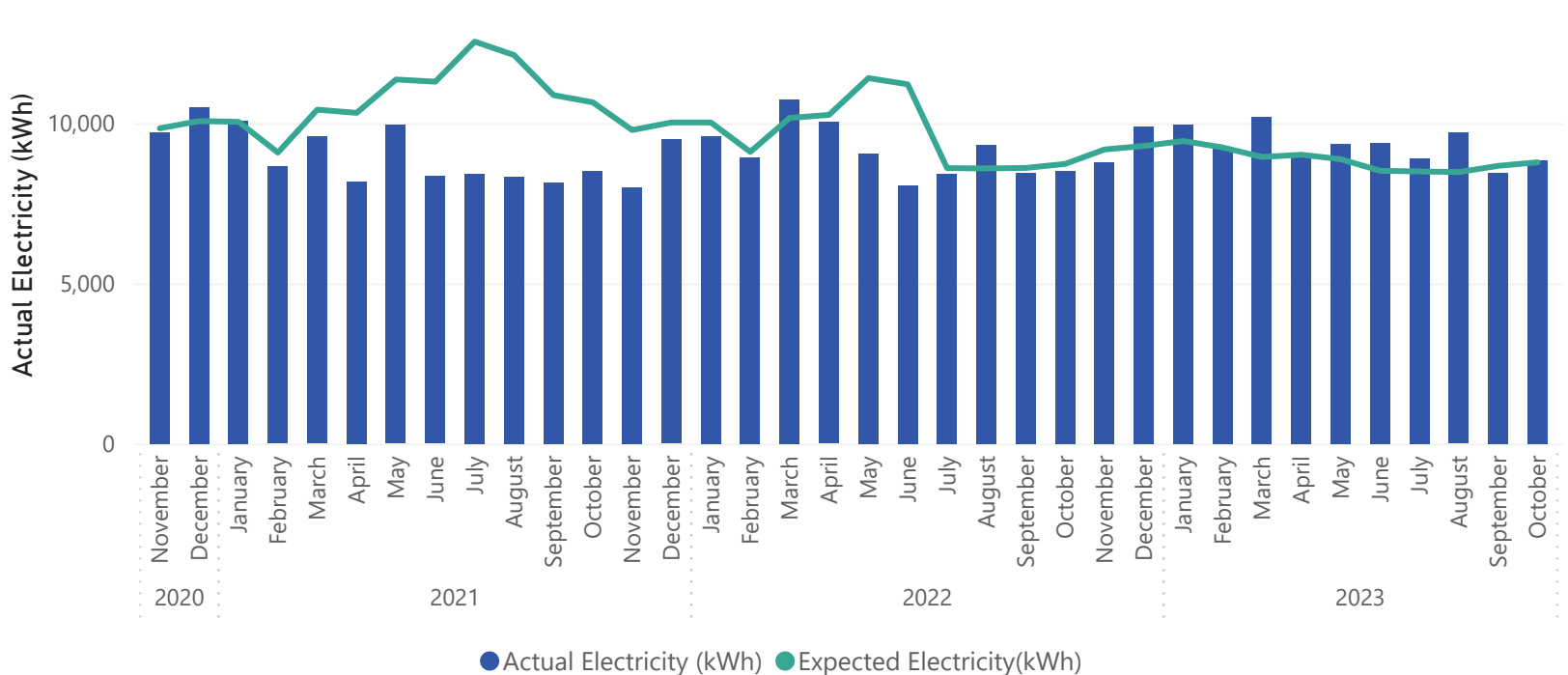
Museum and Research Centre

<p>\$20</p> <p>Monthly Energy Cost Savings</p>	<p>-57</p> <p>Elec. Savings (kWh/mo)</p>	<p>-1%</p> <p>Elec. Savings (%)</p>	<p>-4,716</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>63</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$1,319</p> <p>R12M Energy Cost Savings</p>	<p>337</p> <p>Gas. Savings (kWh/mo)</p>	<p>12%</p> <p>Gas. Savings (%)</p>	<p>-5,291</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>-1,455</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Natural gas use was less than expected and electricity use was marginally more than expected. Previously natural gas has been more than expected since December 2022. October 2023 is the second month in a row where the EUI was less than average compared to the last 12 months, which is good. Prior to September 2023 the EUI was higher than average since since December 2022.

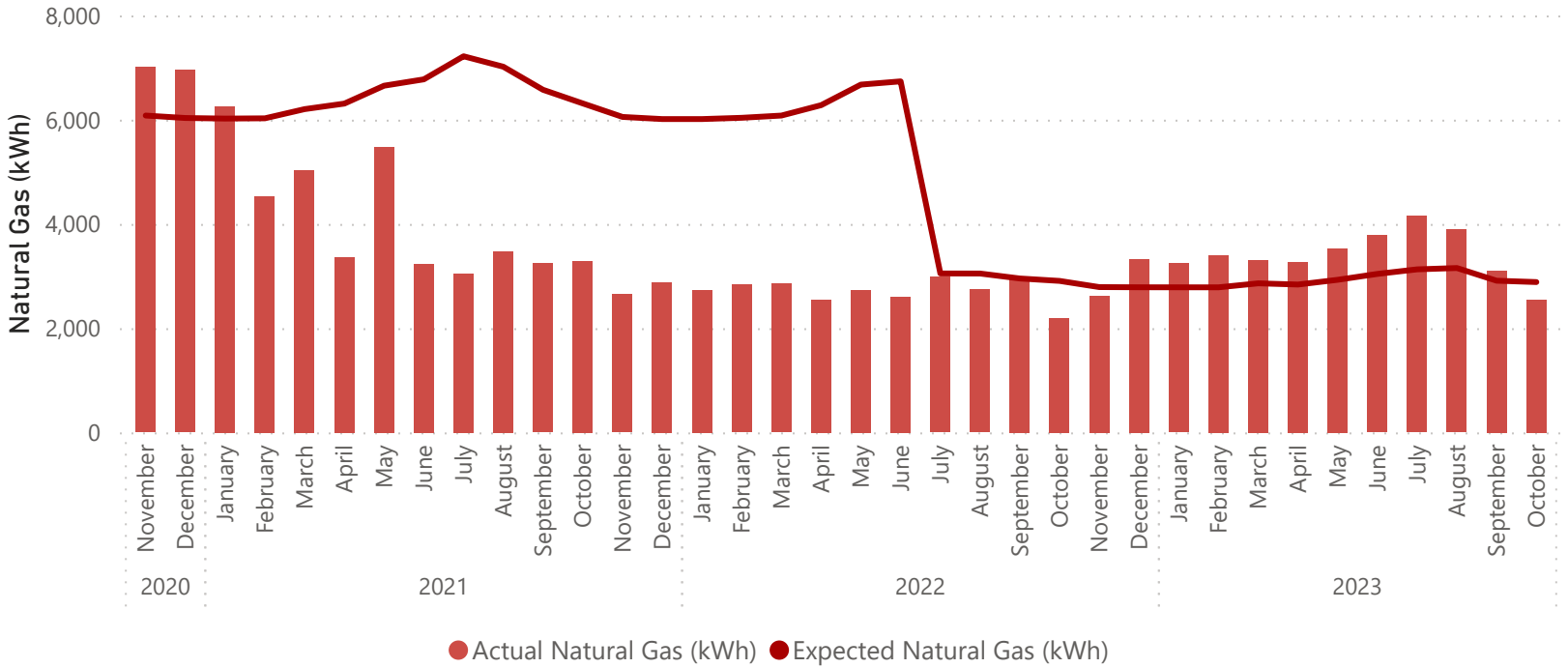
Museum Research Centre Electricity Use Compared to Baseline (kWh)



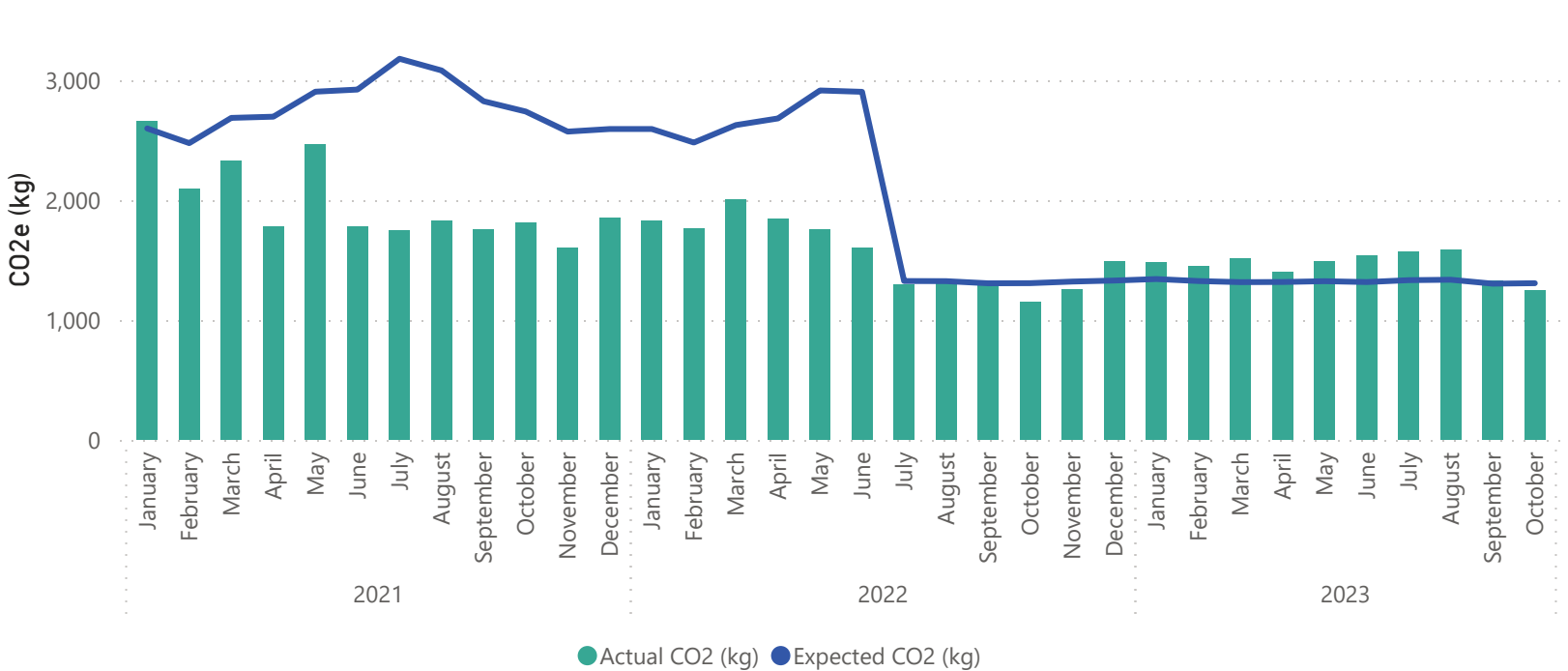
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council Museum and Research Centre

Museum Research Centre Natural Gas Compared to Baseline (kWh)



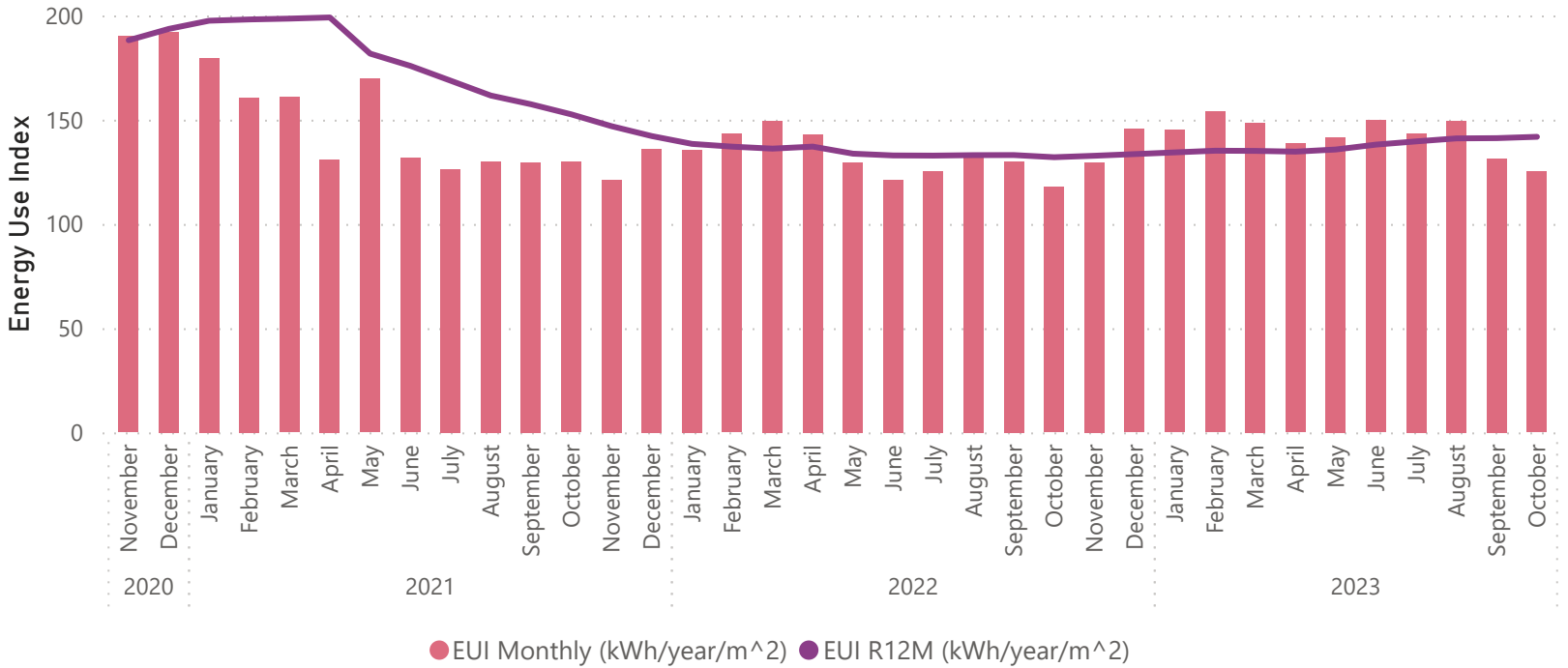
Museum Research Centre Carbon Emissions Compared to Baseline (kg CO2e)



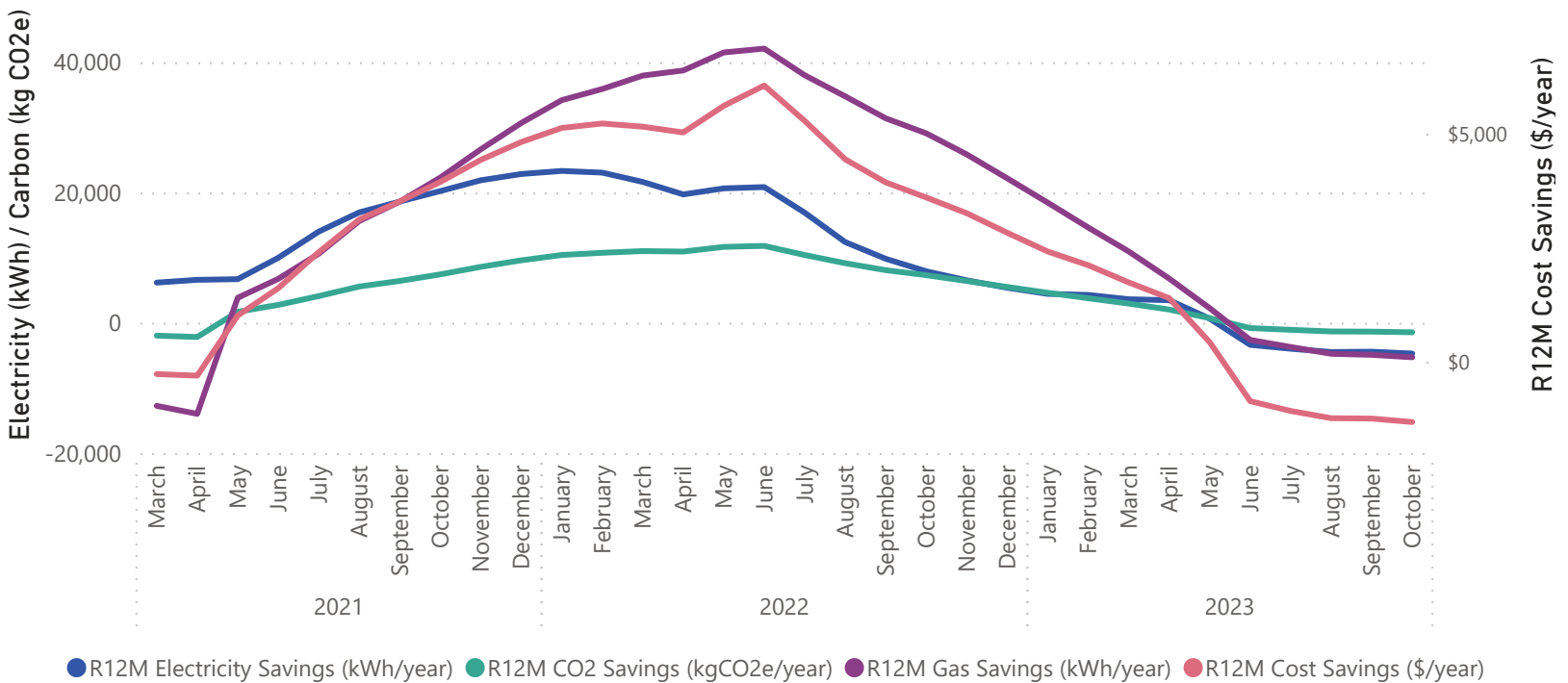
Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

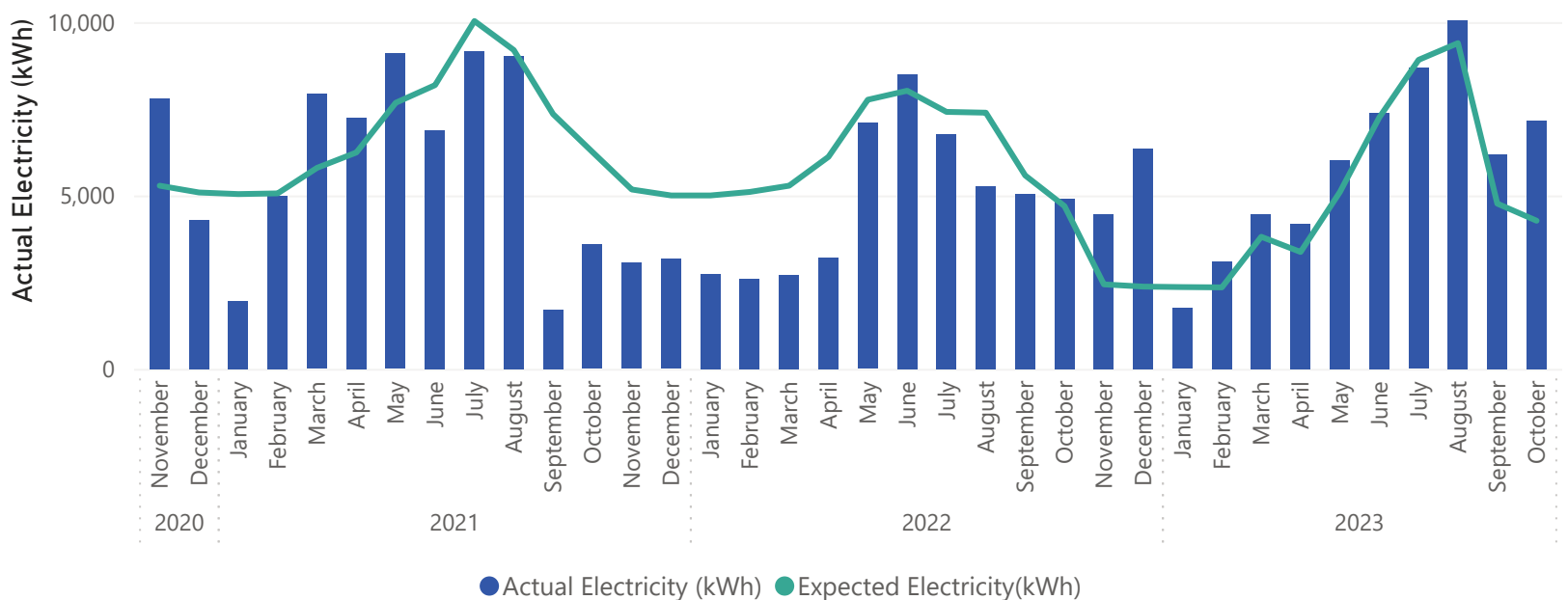
<p>-\$491 Monthly Energy Cost Savings</p>	<p>-2,894 Elec. Savings (kWh/mo)</p>	<p>-68% Elec. Savings (%)</p>	<p>-13,400 R12M Electricity Savings (kWh/yr)</p>	<p>-329 CO2e Savings (kg/mo)</p>
<p>-\$2,289 R12M Energy Cost Savings</p>	<p>-443 Gas. Savings (kWh/mo)</p>	<p>-17% Gas. Savings (%)</p>	<p>349 R12M Gas Savings (kWh/yr)</p>	<p>-1,039 R12M CO2e Savings (kg/yr)</p>

Comments:

The War Memorial Hall used nearly 70% more electricity than expected. Ten of the past 12 months have used more electricity than expected. This may be due to higher occupancy rates than usual.

The hall has used more natural gas than expected in October. 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)

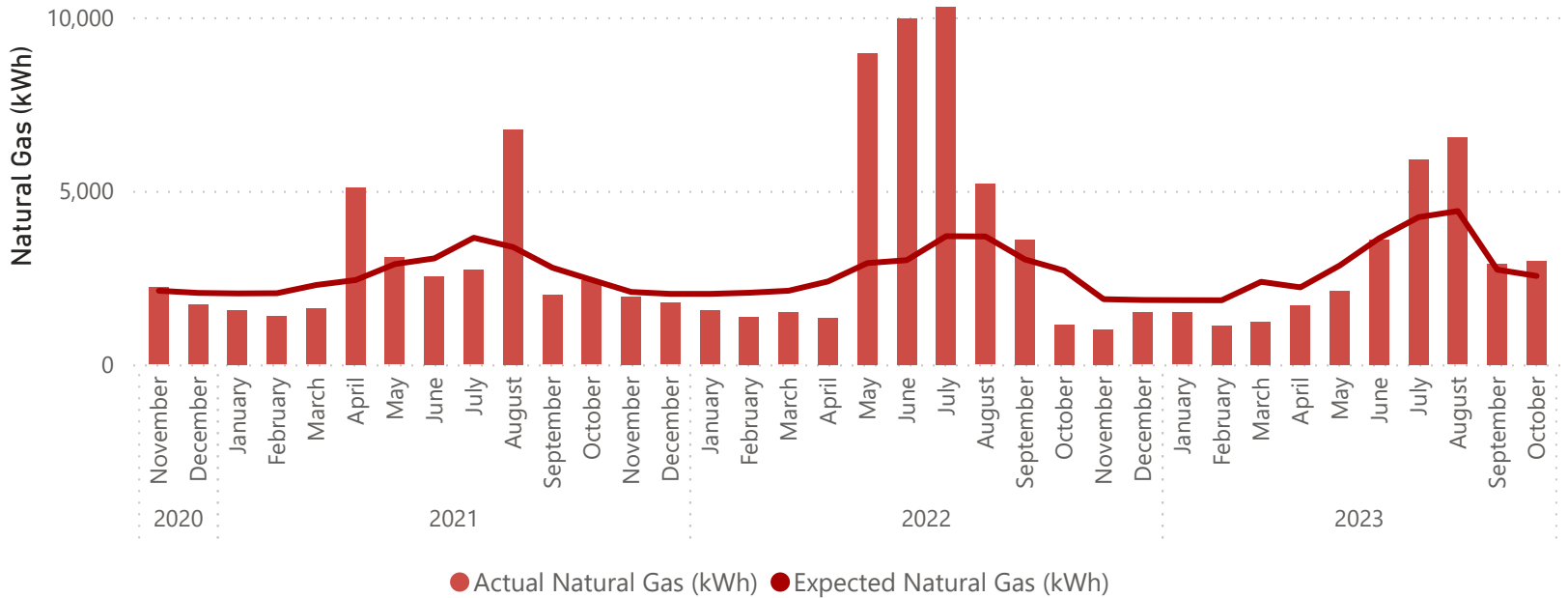


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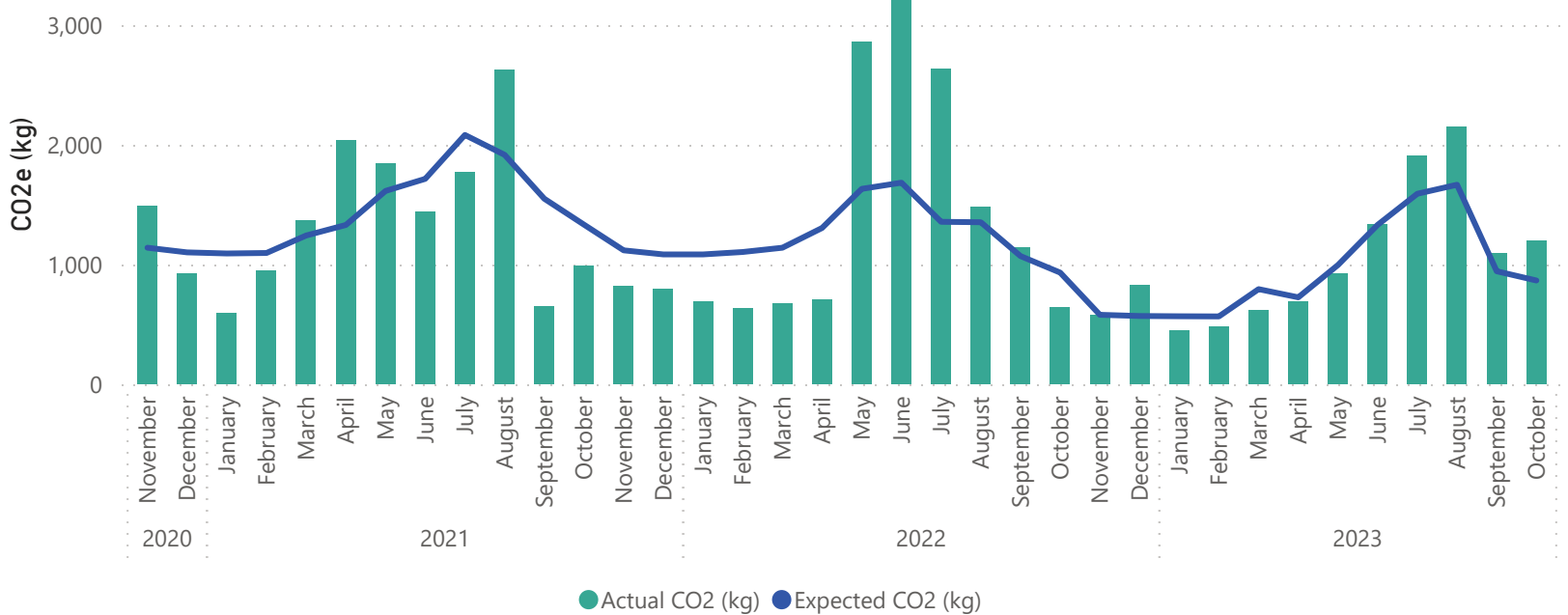
Whakatane District Council

War Memorial Hall

War Memorial Hall Natural Gas Compared to Baseline (kWh)



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

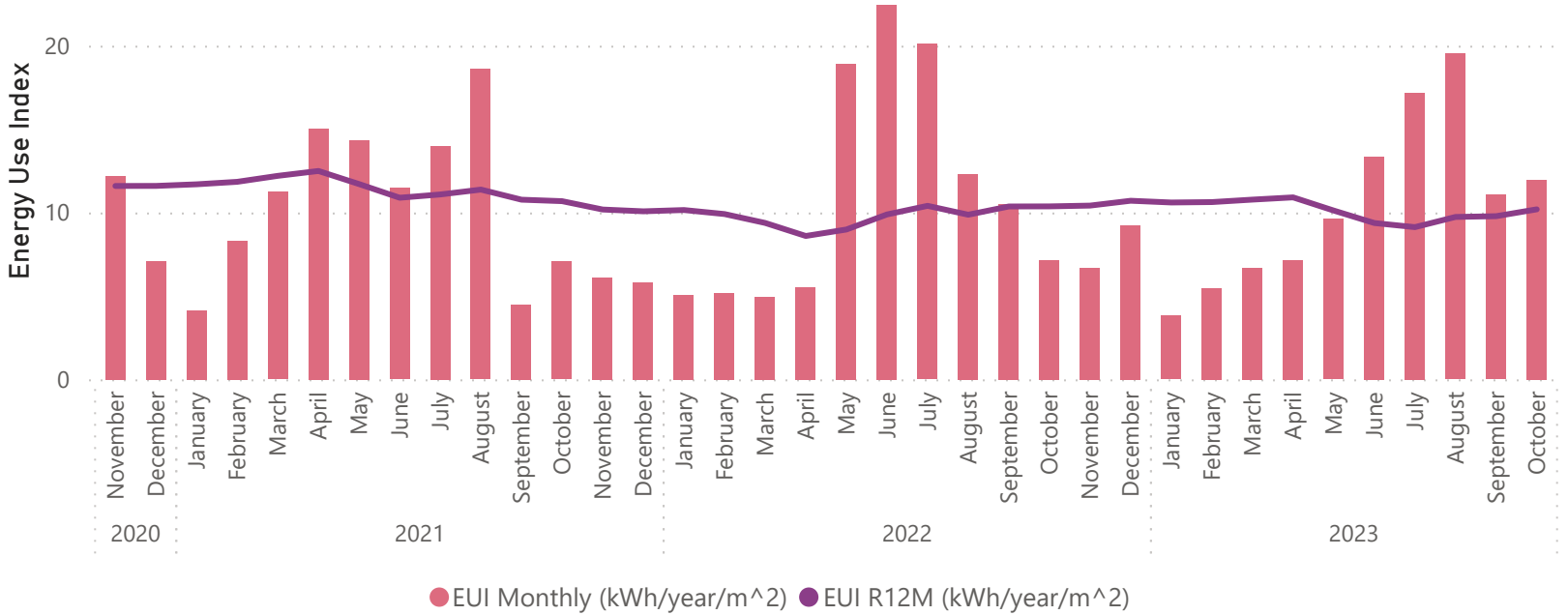


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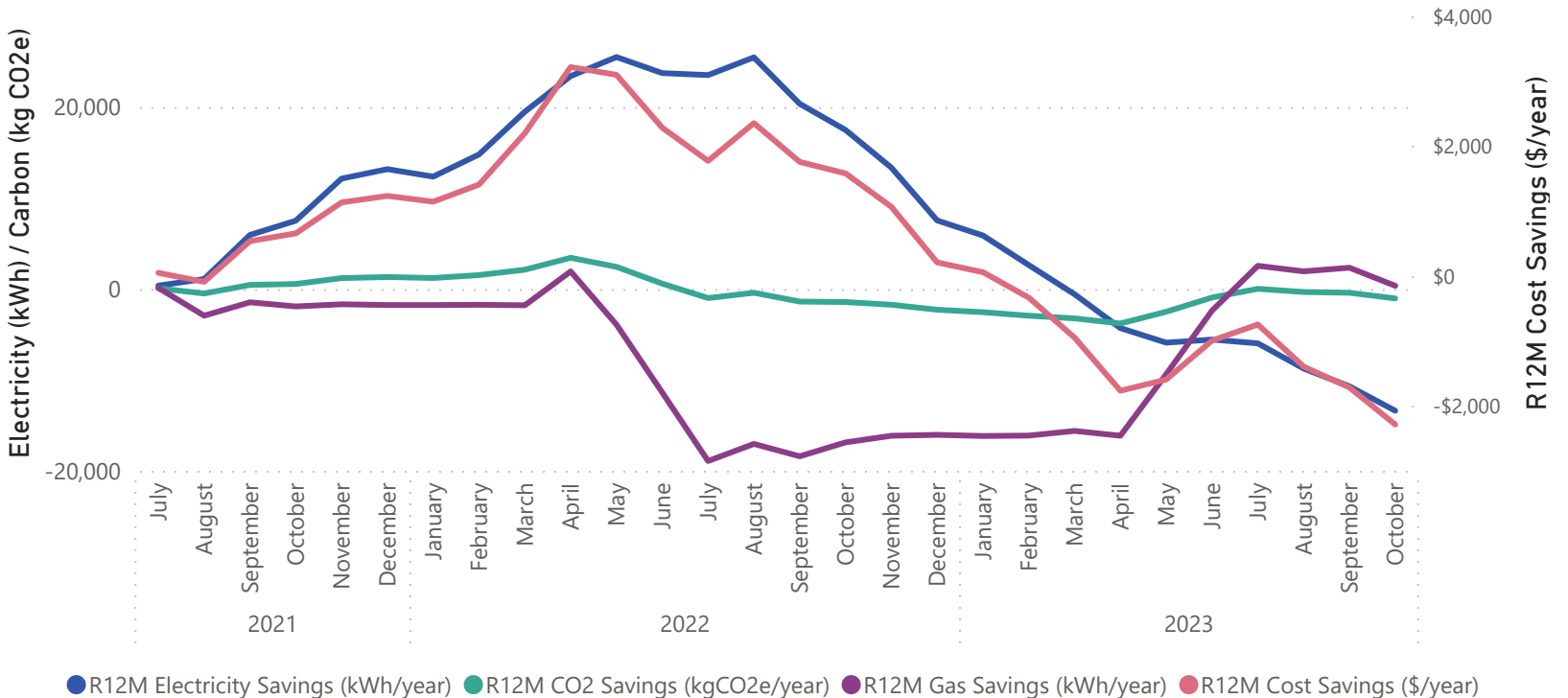
Whakatane District Council

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

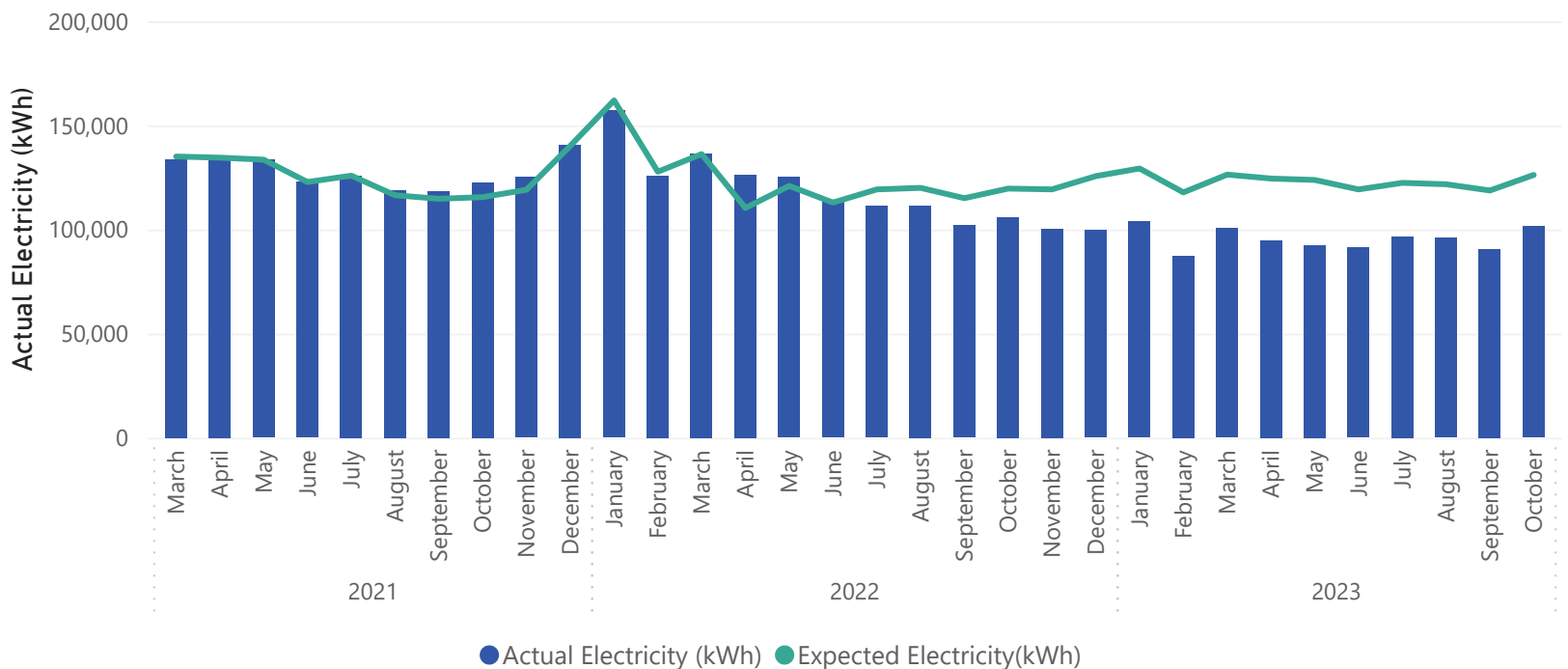
Water Treatment Plant

<p>\$3,747 Monthly Energy Cost Savings</p>	<p>24,781 Elec. Savings (kWh/mo)</p>	<p>20% Elec. Savings (%)</p>	<p>320,096 R12M Electricity Savings (kWh/yr)</p>	<p>2,052 CO2e Savings (kg/mo)</p>
<p>\$56,197 R12M Energy Cost Savings</p>				<p>26,504 R12M CO2e Savings (kg/yr)</p>

Comments:

Another month of savings has been achieved at the WTP in October 2023. Consistent savings between 15-25% have been observed since November 2022. Rolling 12 month savings have been increasing, with approximately \$56,000, 320,000 kWh, and 26,500 kgCO2e saved in the past 12 months, which is excellent.

Water Treatment Plant Electricity Use Compared to Baseline (kWh)

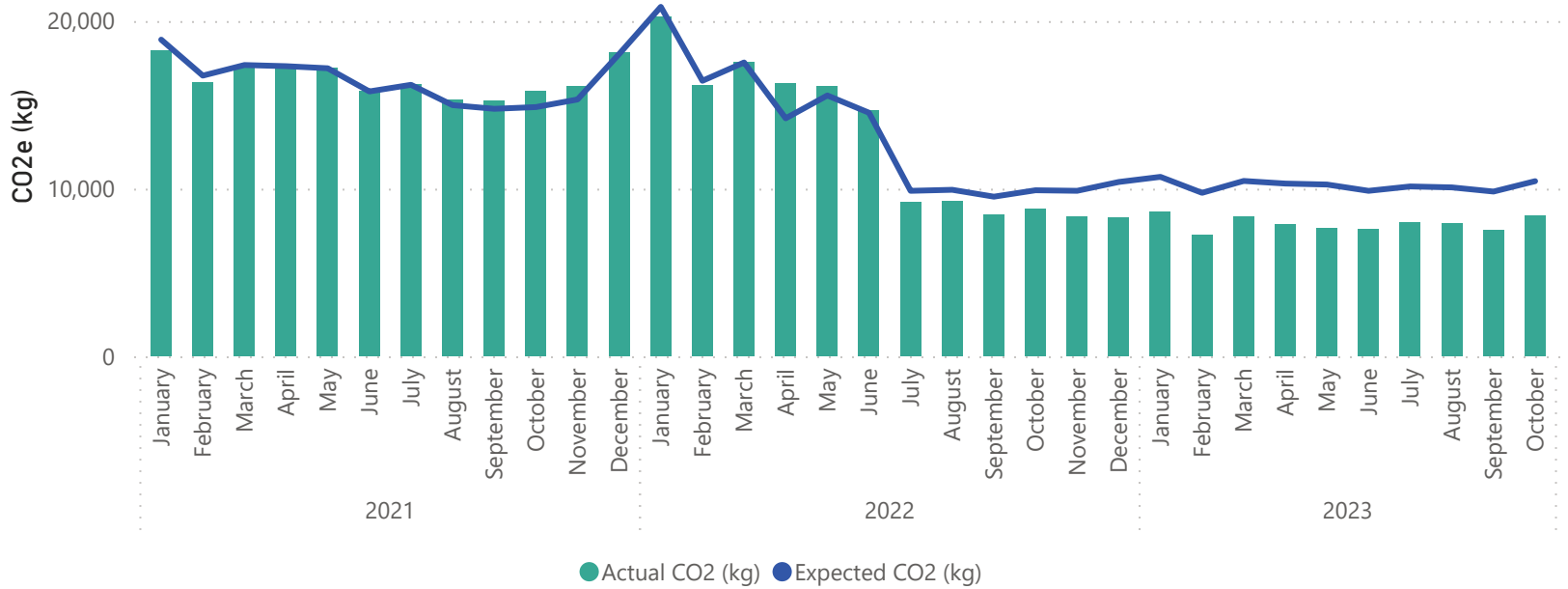


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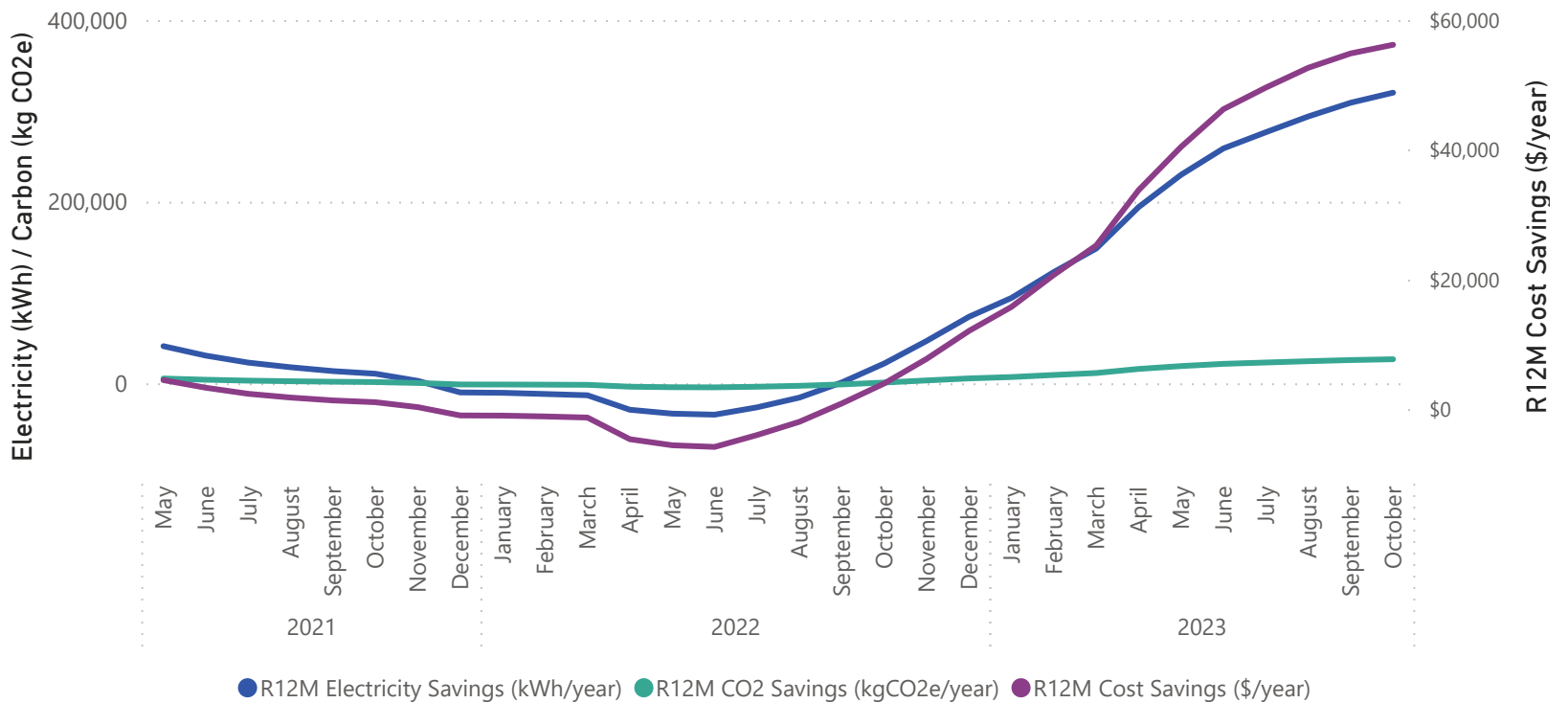
Whakatane District Council

Water Treatment Plant

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



Water Treatment Plant Rolling 12 Month Savings

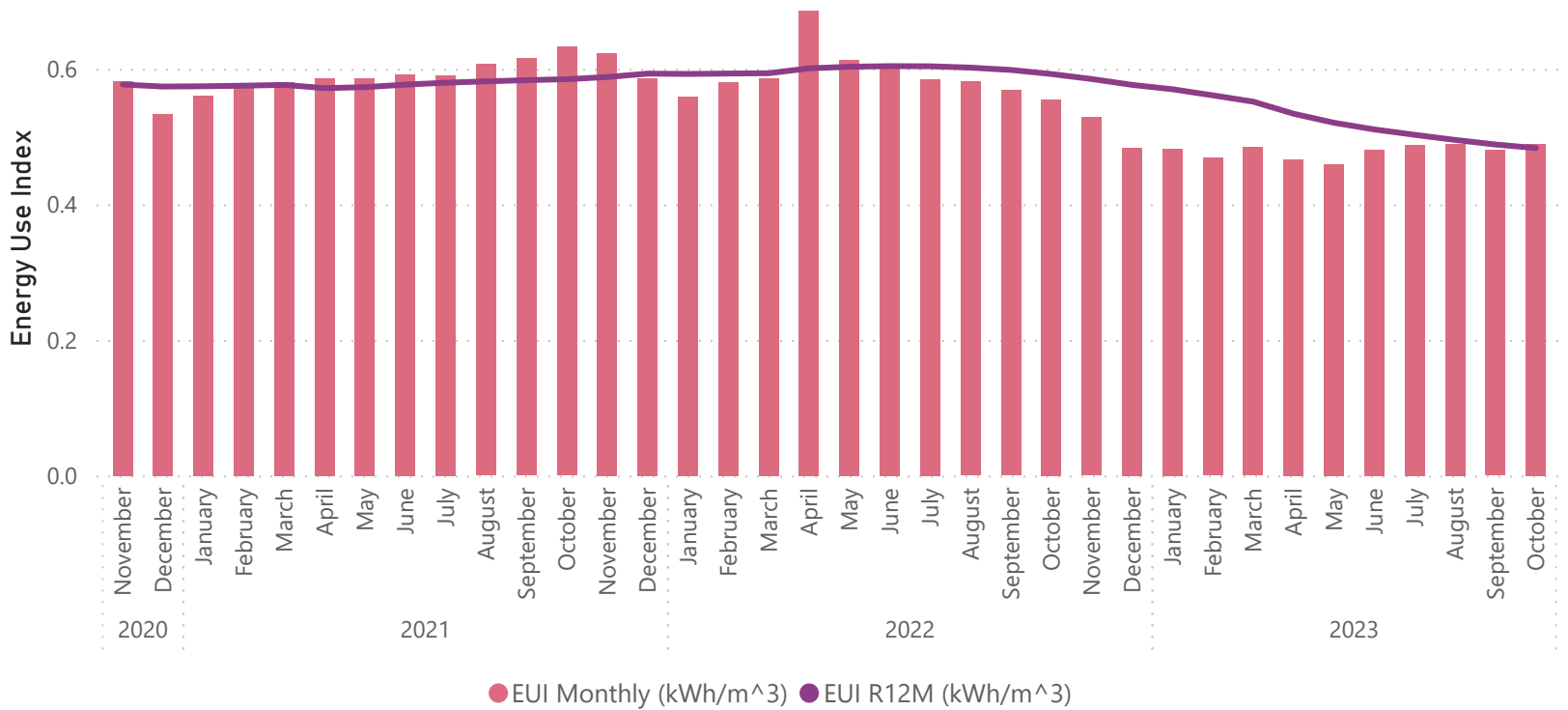


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

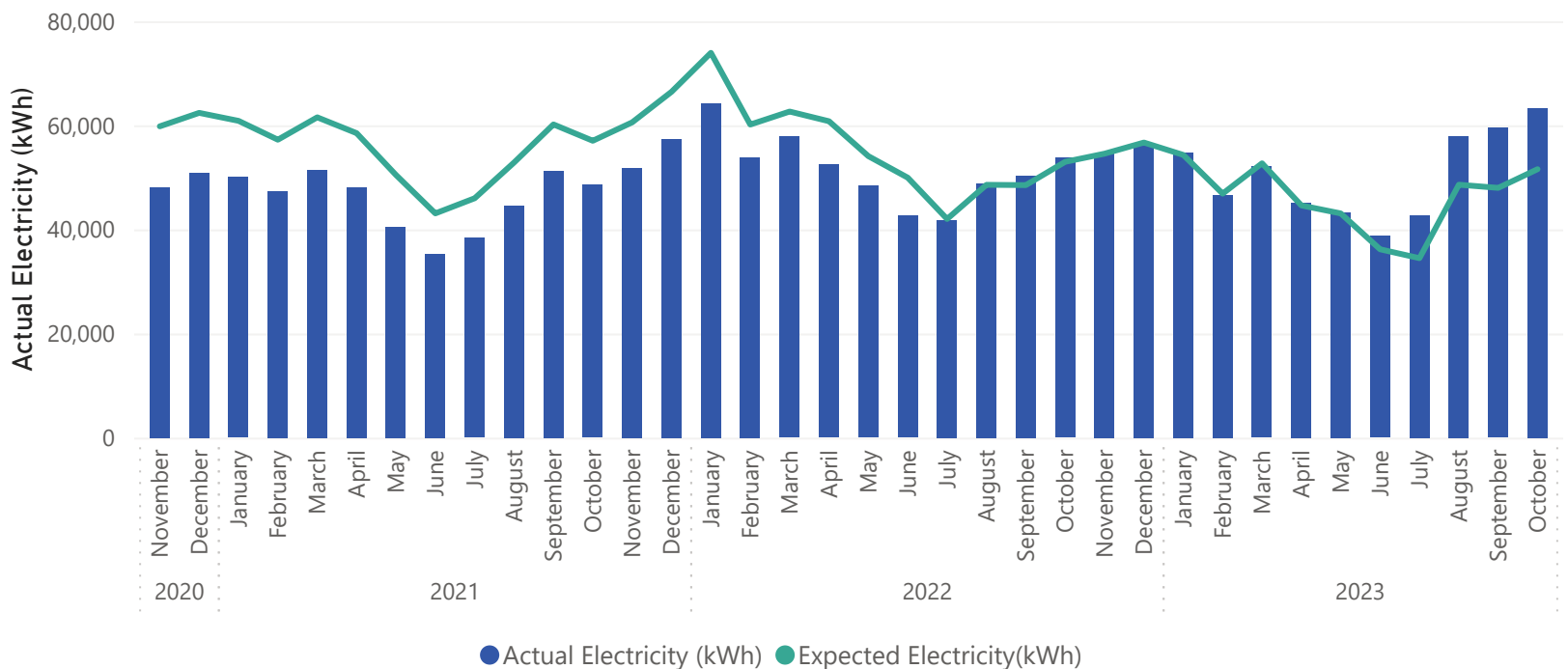
<p>-\$1,808 Monthly Energy Cost Savings</p>	<p>-11,720 Elec. Savings (kWh/mo)</p>	<p>-23% Elec. Savings (%)</p>	<p>-43,680 R12M Electricity Savings (kWh/yr)</p>	<p>-970 CO2e Savings (kg/mo)</p>
<p>-\$7,799 R12M Energy Cost Savings</p>				<p>-3,617 R12M CO2e Savings (kg/yr)</p>

Comments:

Work has been completed at Braemar Rd which added filters and new low lift pumps. A contractor was able to supply accurate flows, which show the impact of increased pumping requirements from new filters, using approximately 20% more electricity than previous. New tags will be added to SCADA in future which will capture water metering.

Due to the new equipment added and increased electricity demand, when more data is available a non routine adjustment will be added to account for the increased demand or the site will be re-baselined.

Braemar Rd Pumps Electricity Use Compared to Baseline (kWh)

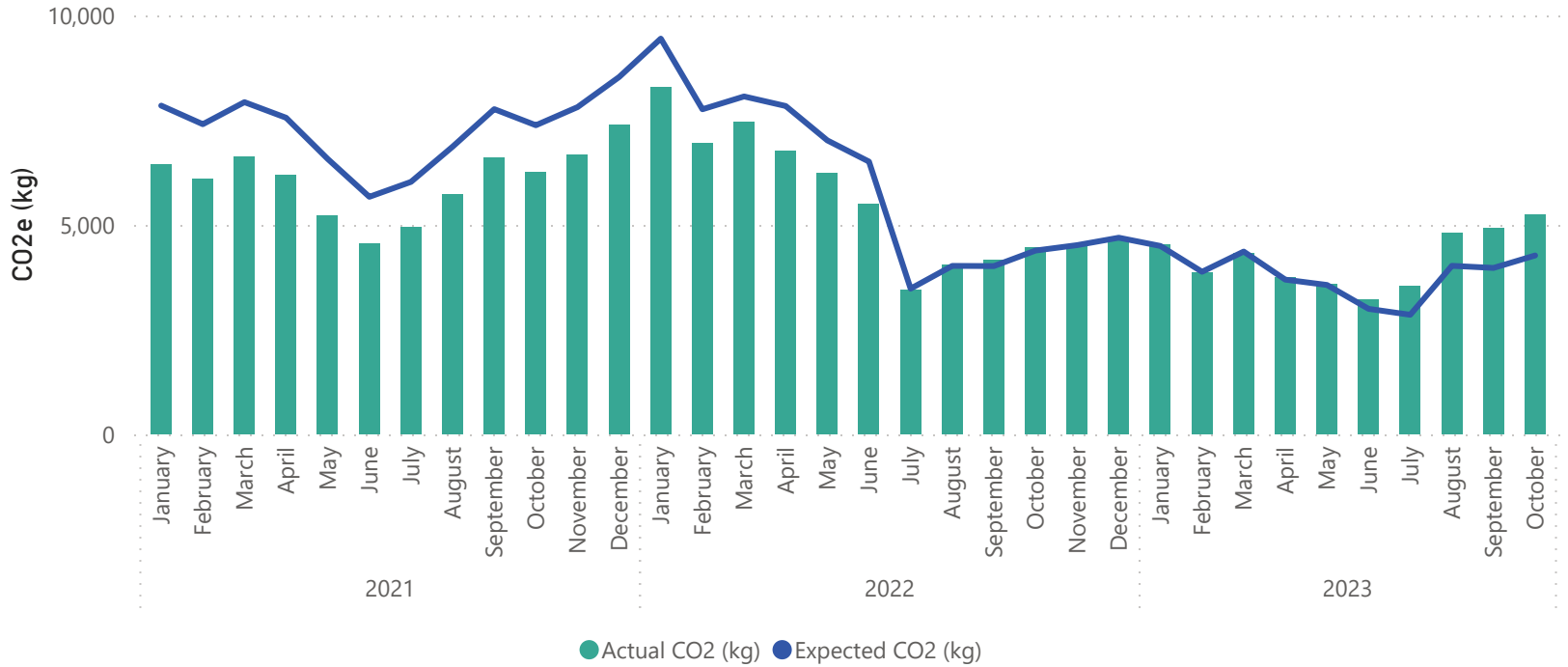


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

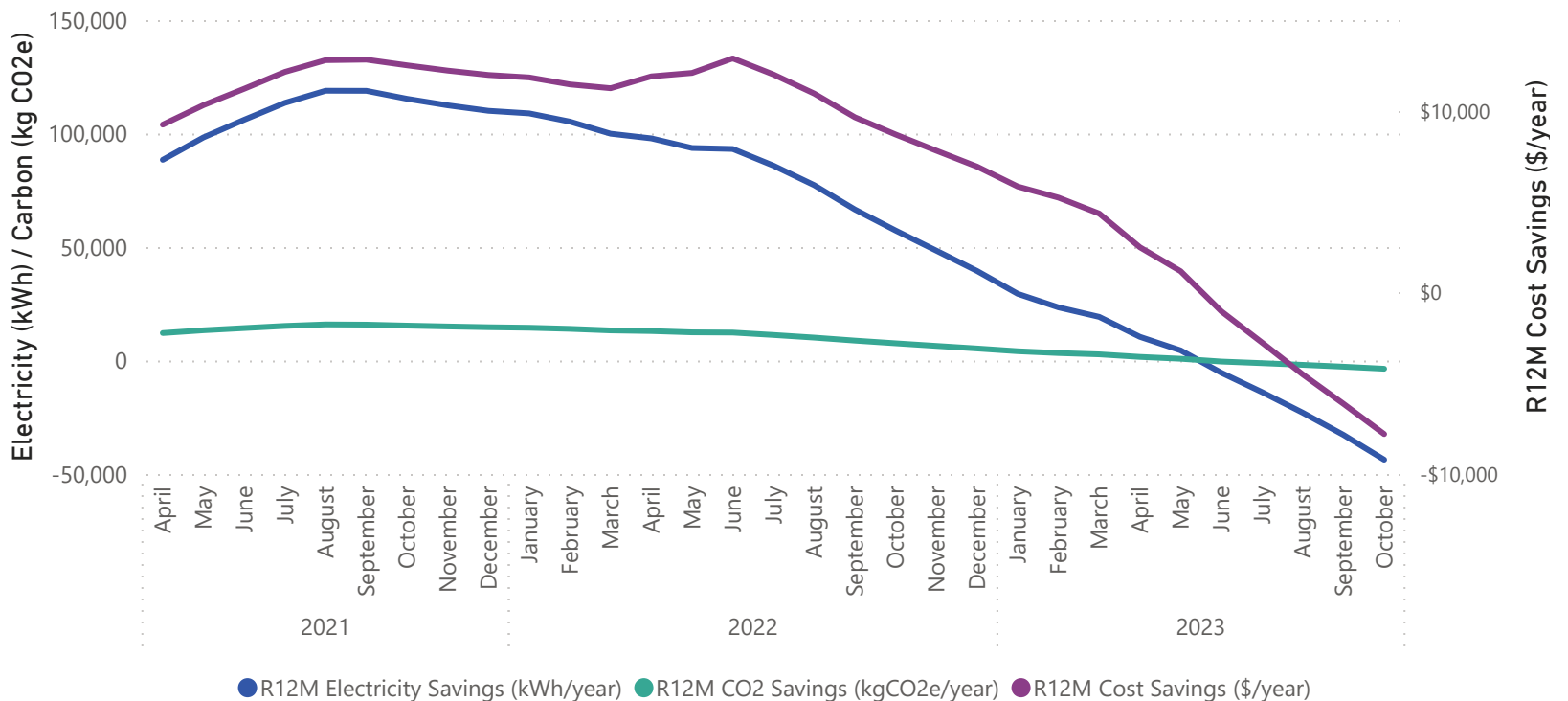
Whakatane District Council

Braemar Road Pump Station

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



Braemar Rd Pumps Rolling 12 Month Savings

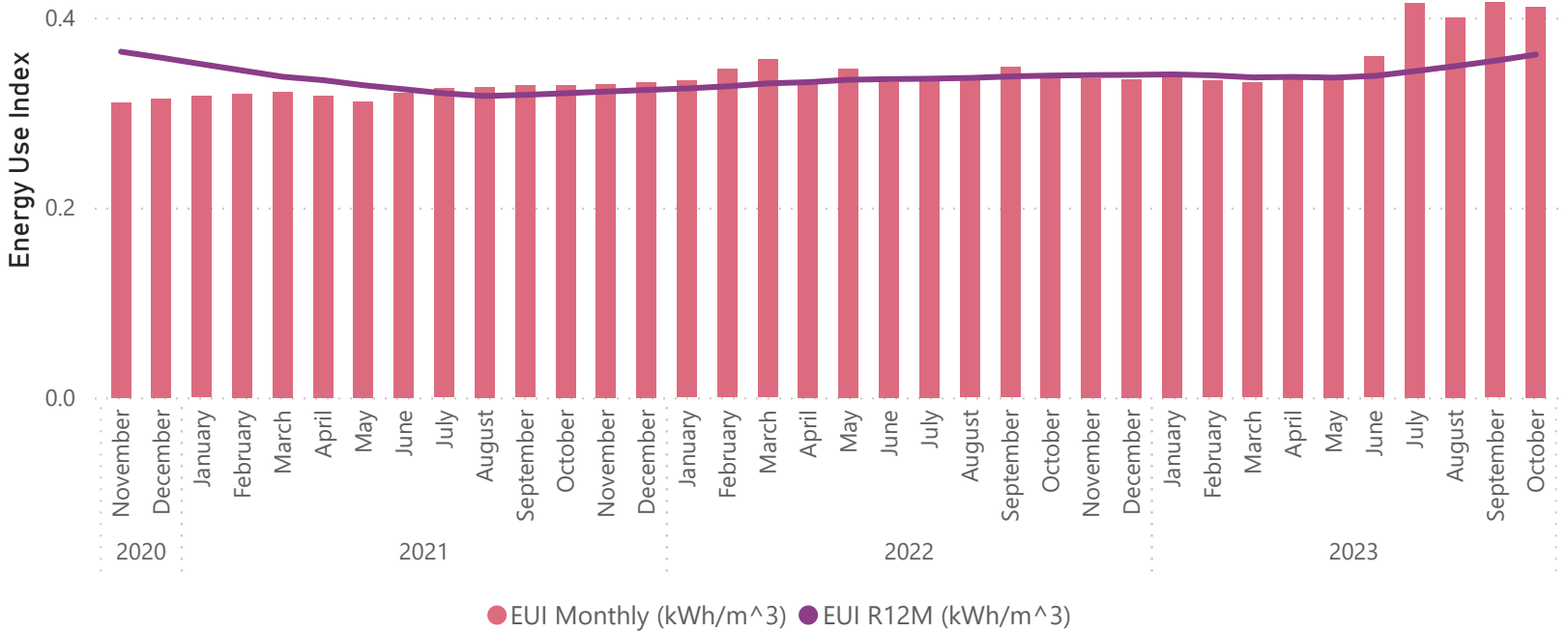


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Braemar Road Pump Station

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



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

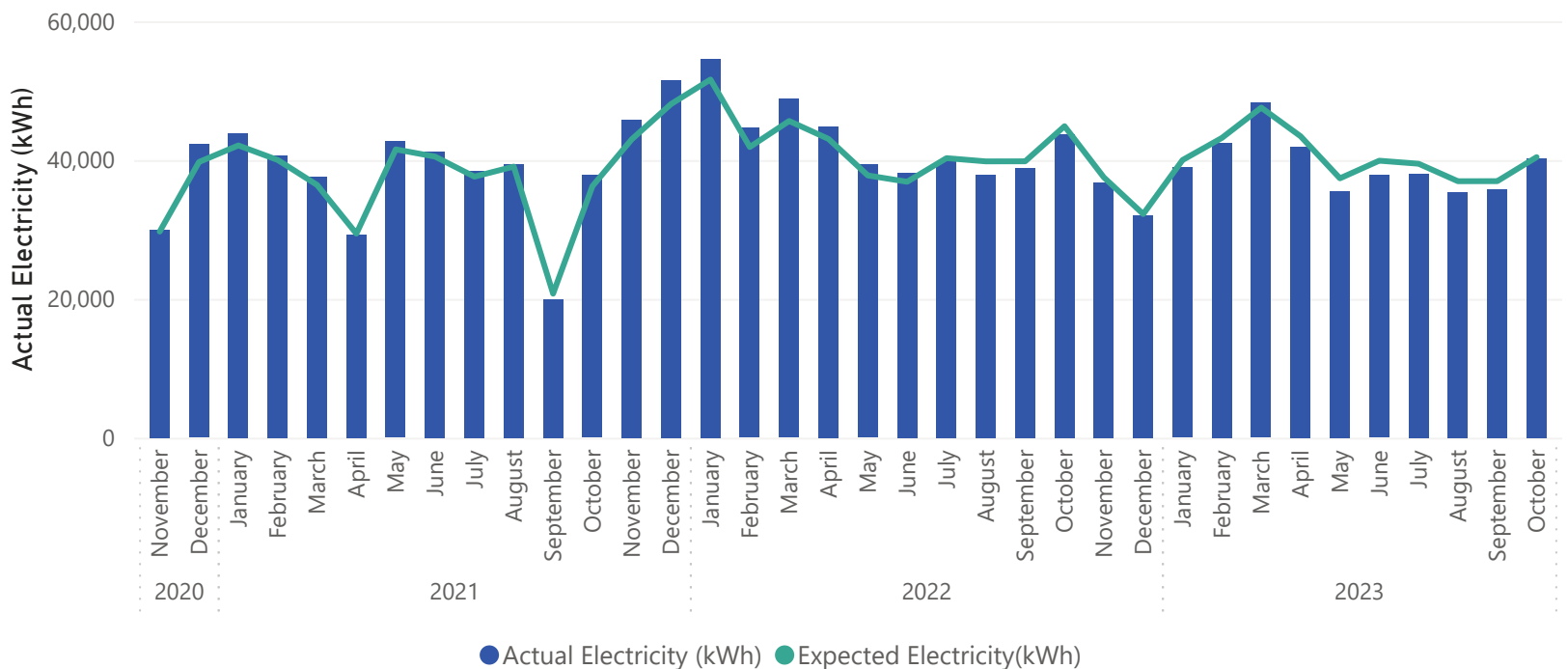
Paul Road Pump Station

<p>\$27</p> <p>Monthly Energy Cost Savings</p>	<p>173</p> <p>Elec. Savings (kWh/mo)</p>	<p>0%</p> <p>Elec. Savings (%)</p>	<p>11,873</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>14</p> <p>CO2e Savings (kg/mo)</p>
<p>\$2,192</p> <p>R12M Energy Cost Savings</p>				<p>983</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity use was close to expected at Paul Road Pump Station. The monthly EUI is above 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)

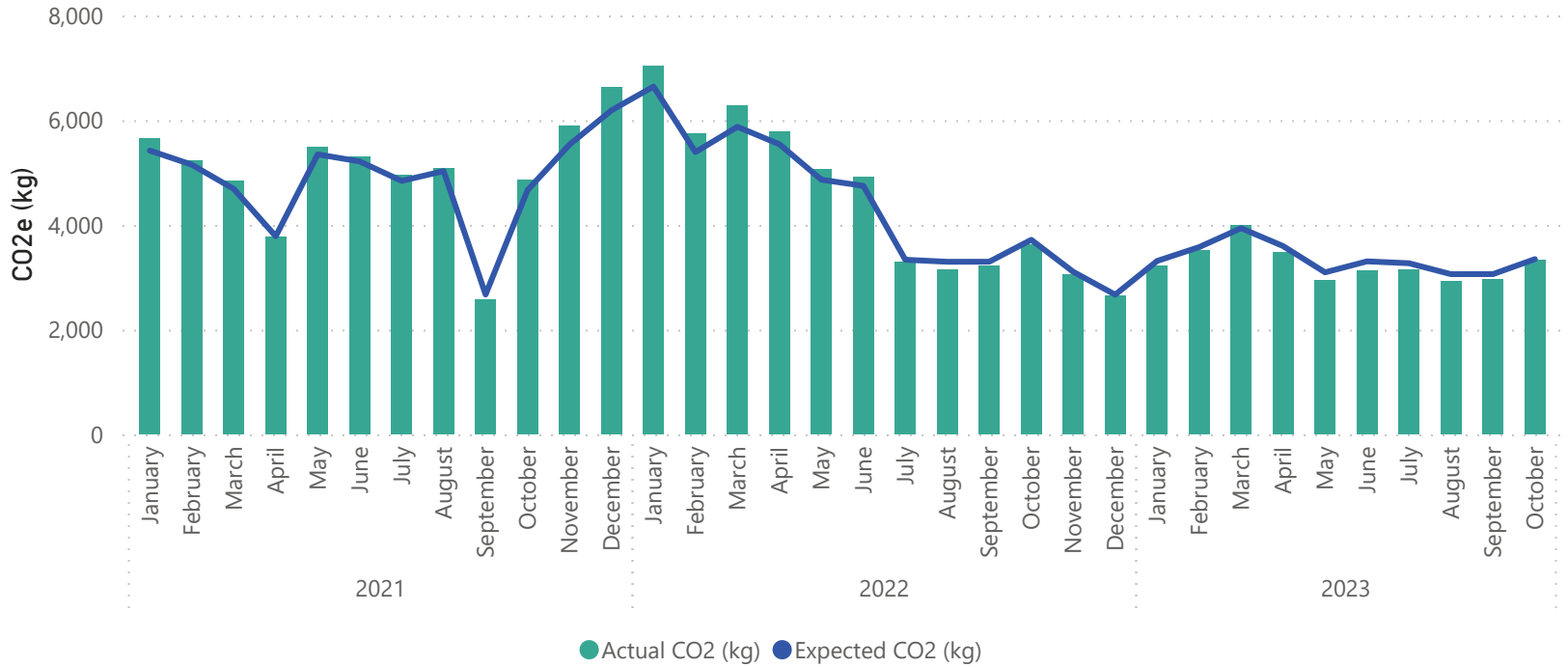


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

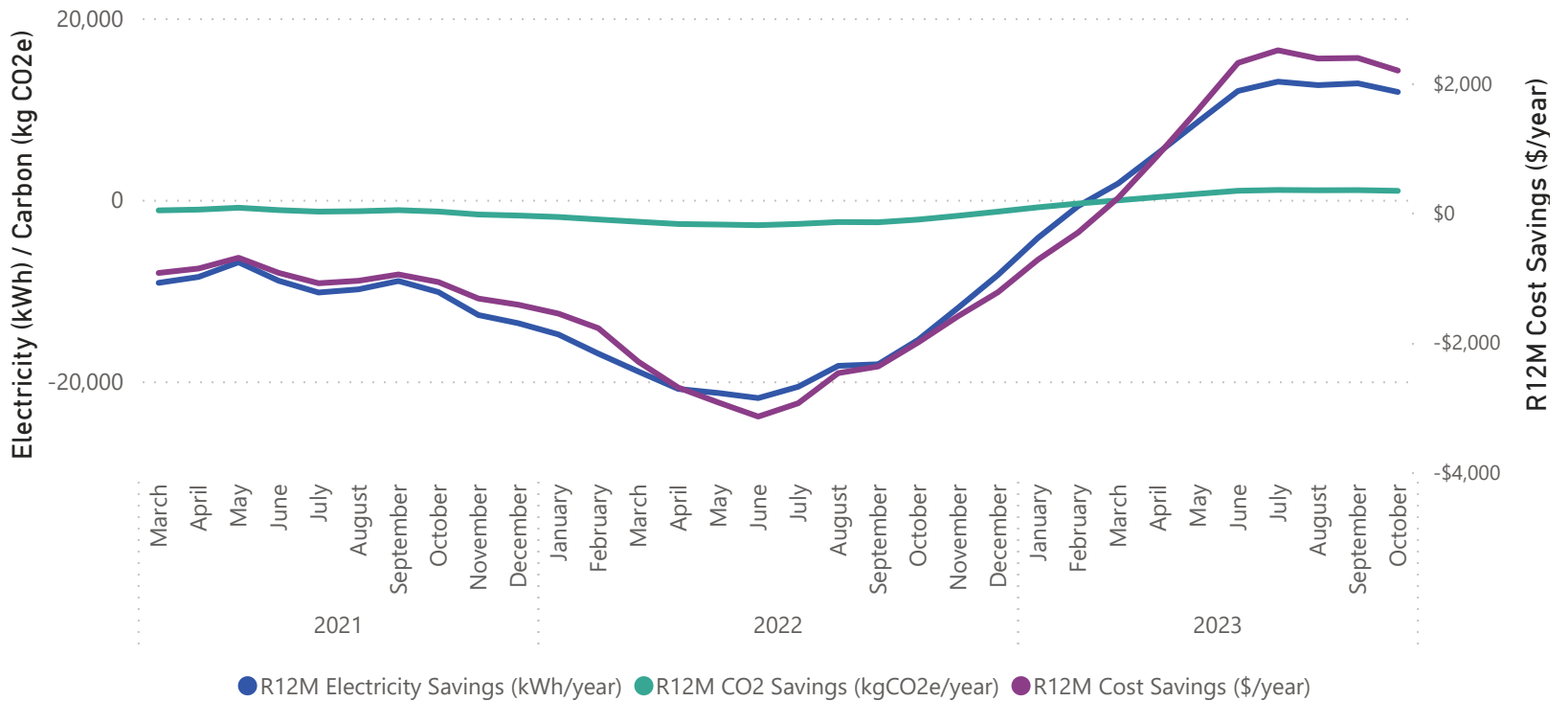
Whakatane District Council

Paul Road Pump Station

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



Paul Rd Pumps Rolling 12 Month Savings

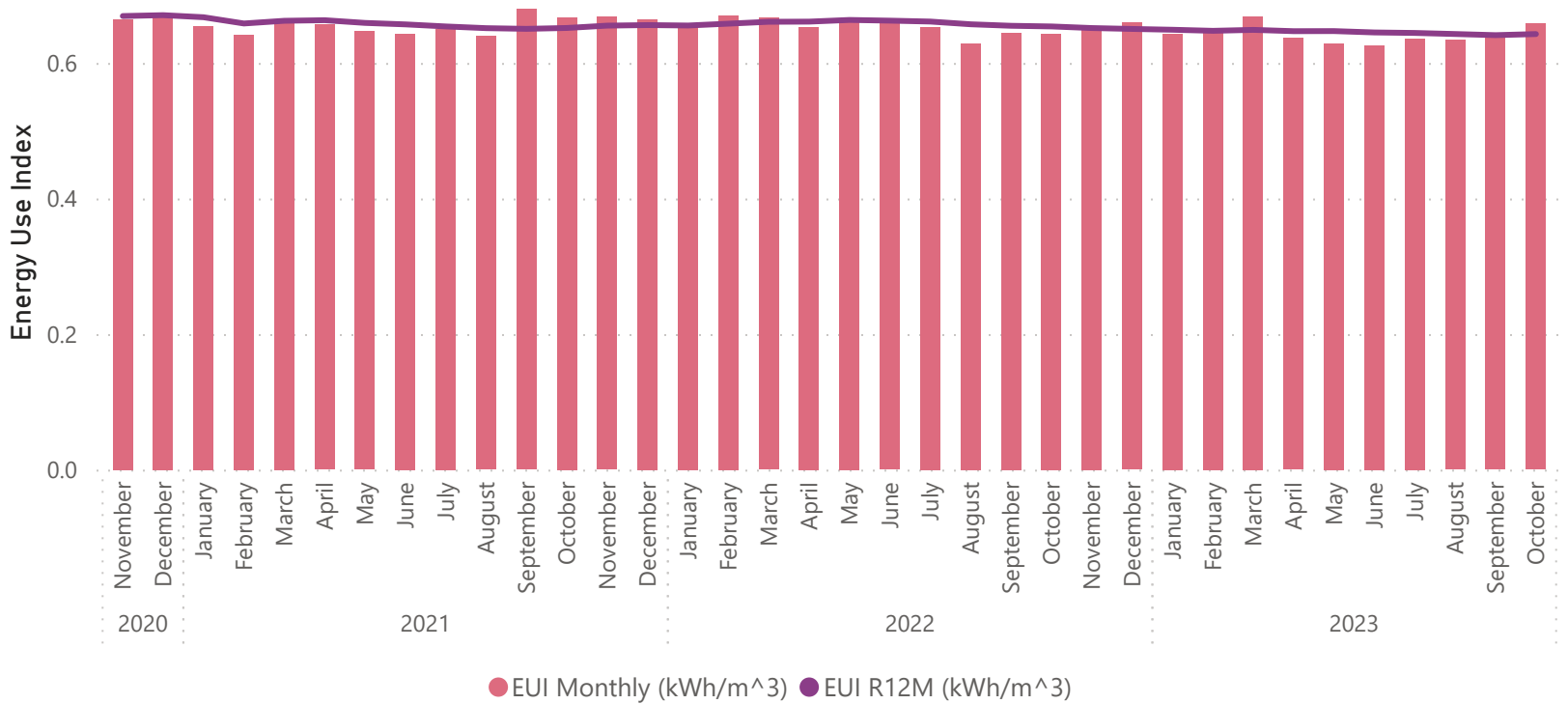


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

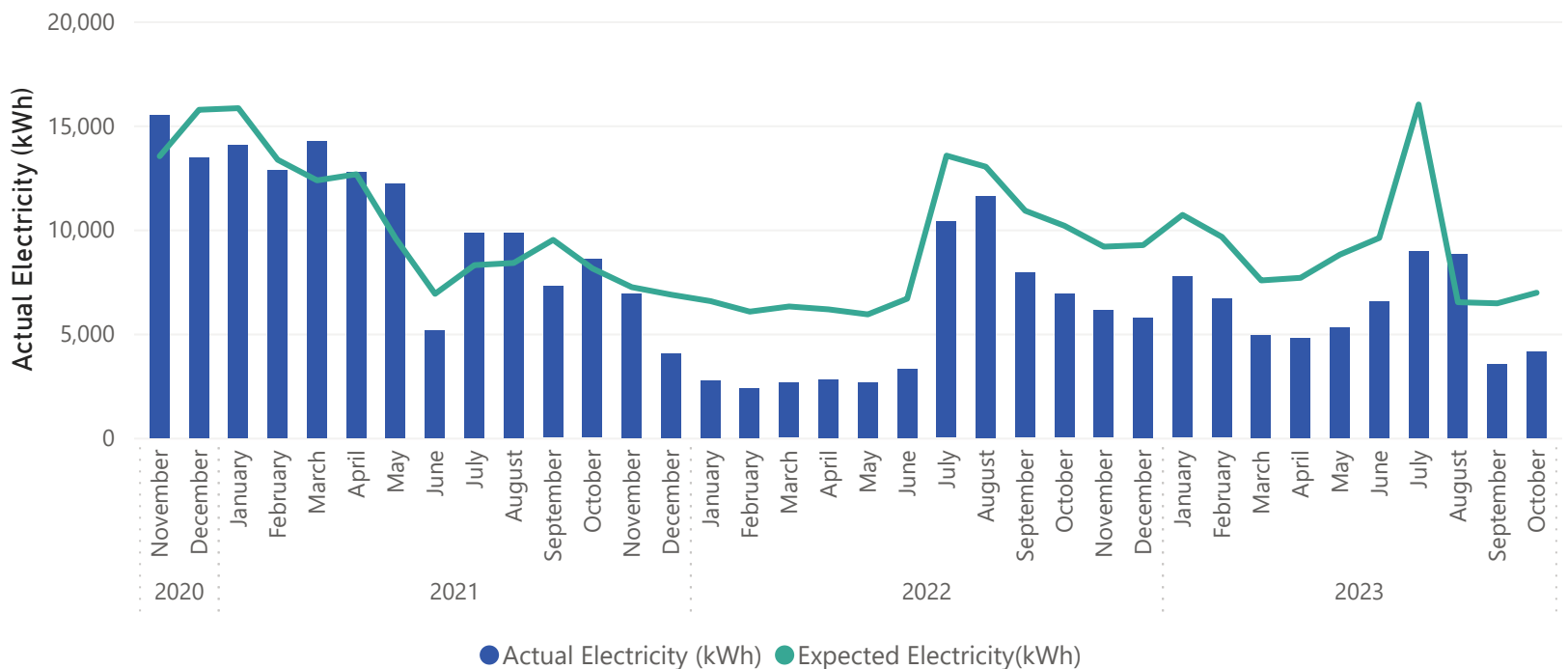
Johnson Road Pump Station

<p>\$623 Monthly Energy Cost Savings</p>	<p>2,803 Elec. Savings (kWh/mo)</p>	<p>40% Elec. Savings (%)</p>	<p>34,920 R12M Electricity Savings (kWh/yr)</p>	<p>232 CO2e Savings (kg/mo)</p>
<p>\$7,555 R12M Energy Cost Savings</p>				<p>2,891 R12M CO2e Savings (kg/yr)</p>

Comments:

Johnson Rd Pump used 40% less electricity than expected. The pump has been achieving consistent savings from Dec 2021, with the exception of August 2023, which may be due to when the electricity meter was read or that increased electricity use may be due to some interactive effects between Johnson and Braemar Rd pump stations.

Johnson Rd Pumps Electricity Use Compared to Baseline (kWh)

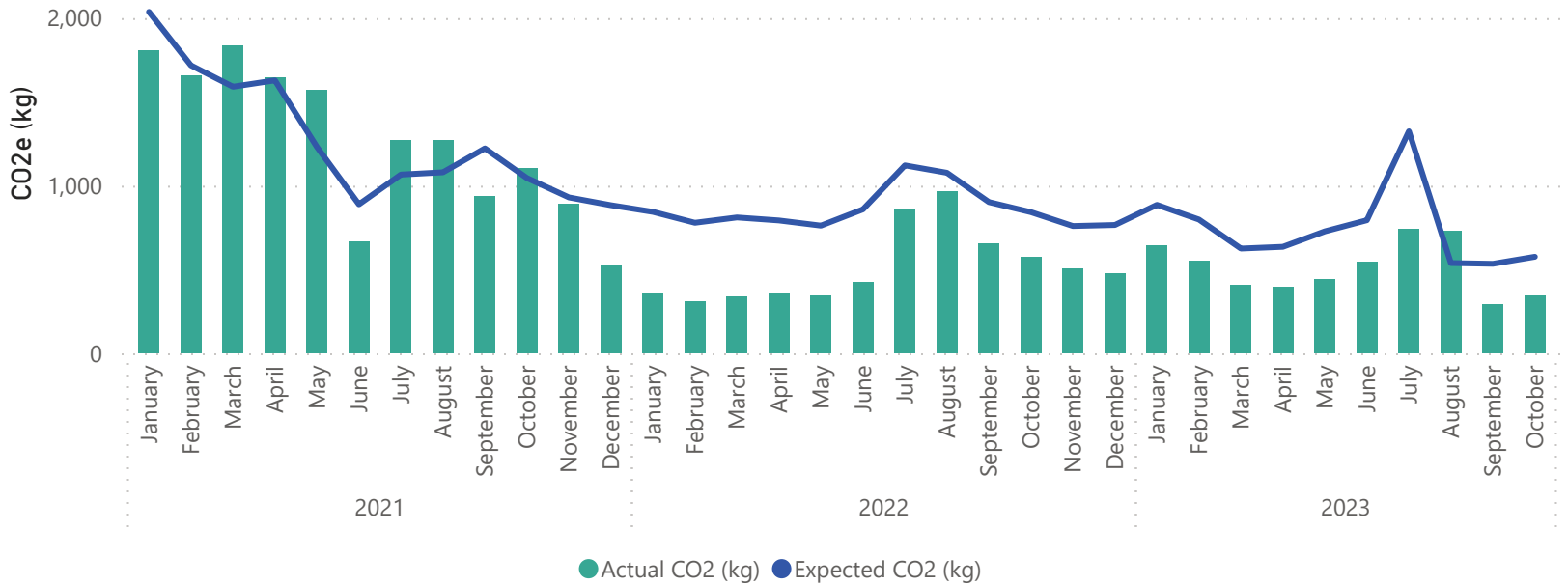


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

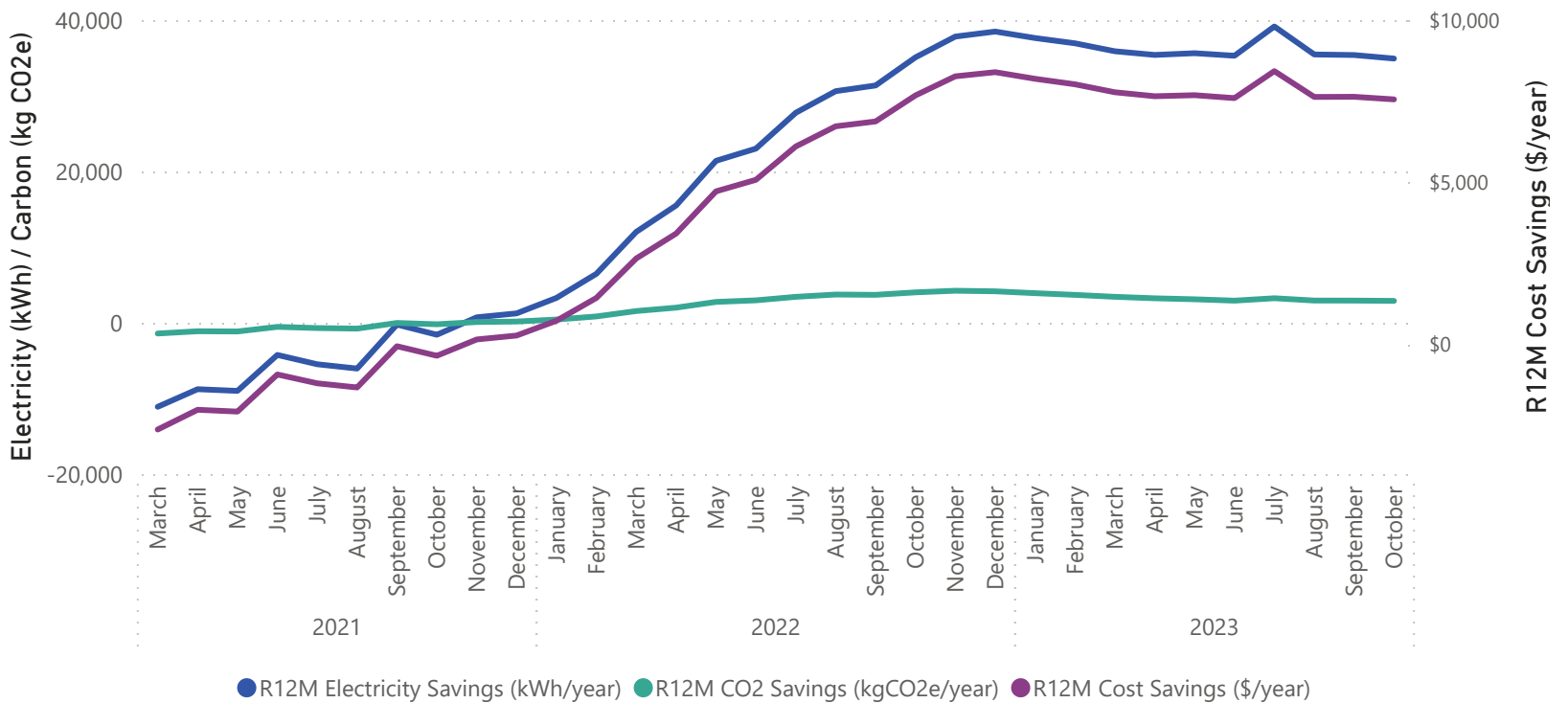
Whakatane District Council

Johnson Road Pump Station

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



Johnson Rd Pumps Rolling 12 Month Savings

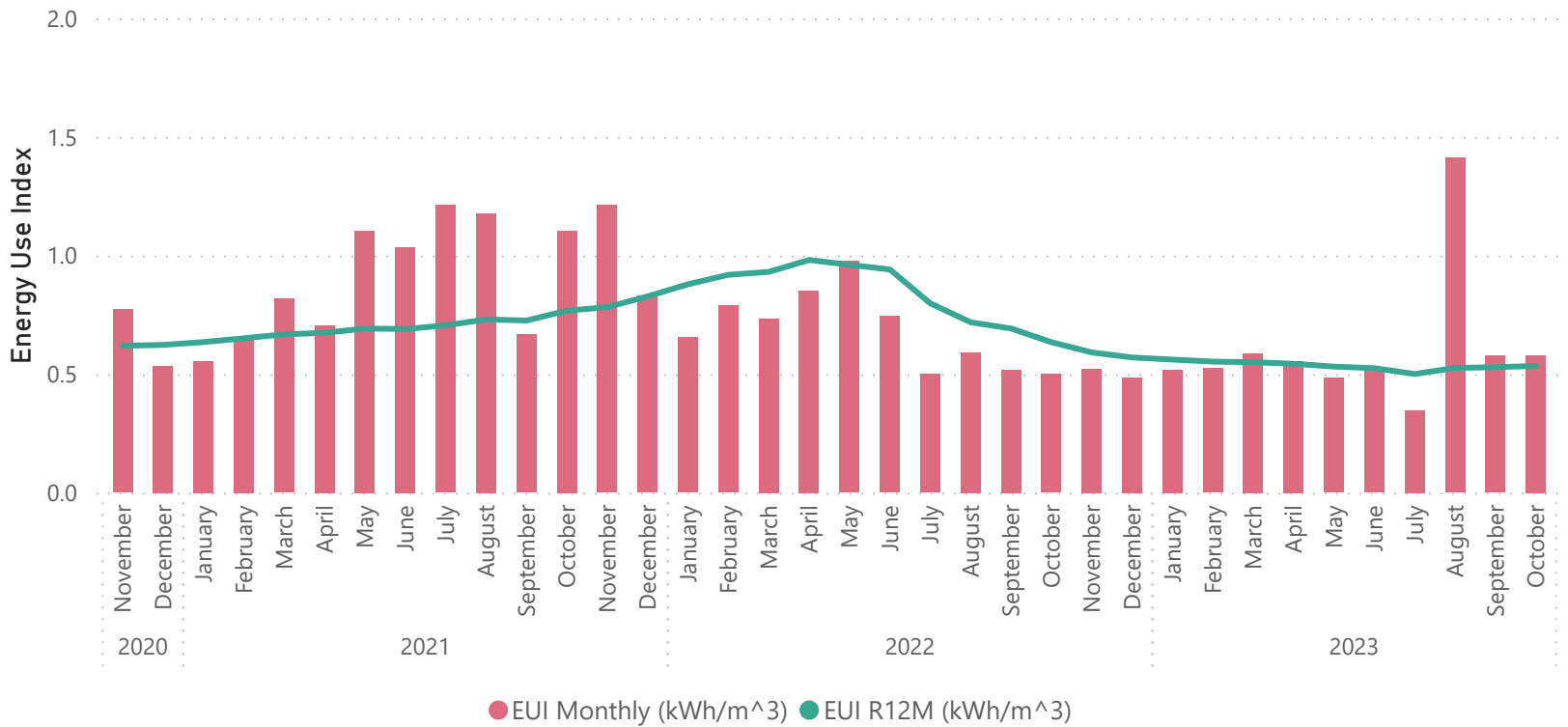


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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
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Whakatane District Council

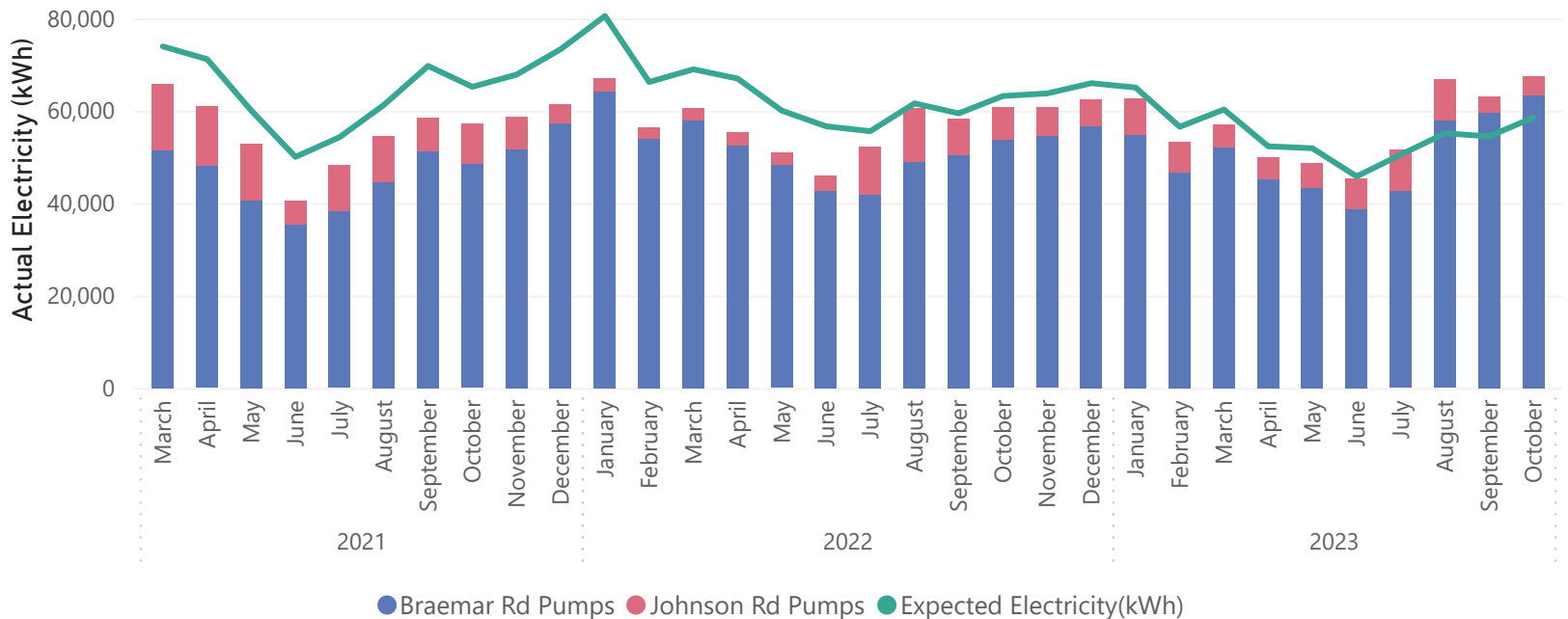
Johnson and Braemar Rd Pump Stations

<p>-\$1,184 Monthly Energy Cost Savings</p>	<p>-8,917 Elec. Savings (kWh/mo)</p>	<p>-15% Elec. Savings (%)</p>	<p>-8,760 R12M Electricity Savings (kWh/yr)</p>	<p>-738 CO2e Savings (kg/mo)</p>
<p>-\$244 R12M Energy Cost Savings</p>				<p>-725 R12M CO2e Savings (kg/yr)</p>

Comments:

Braemar Rd pump station has used more electricity than expected in August, September, and October 2023, this is mostly attributed to the new filters at Braemar Road, which have increased pumping requirements.

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

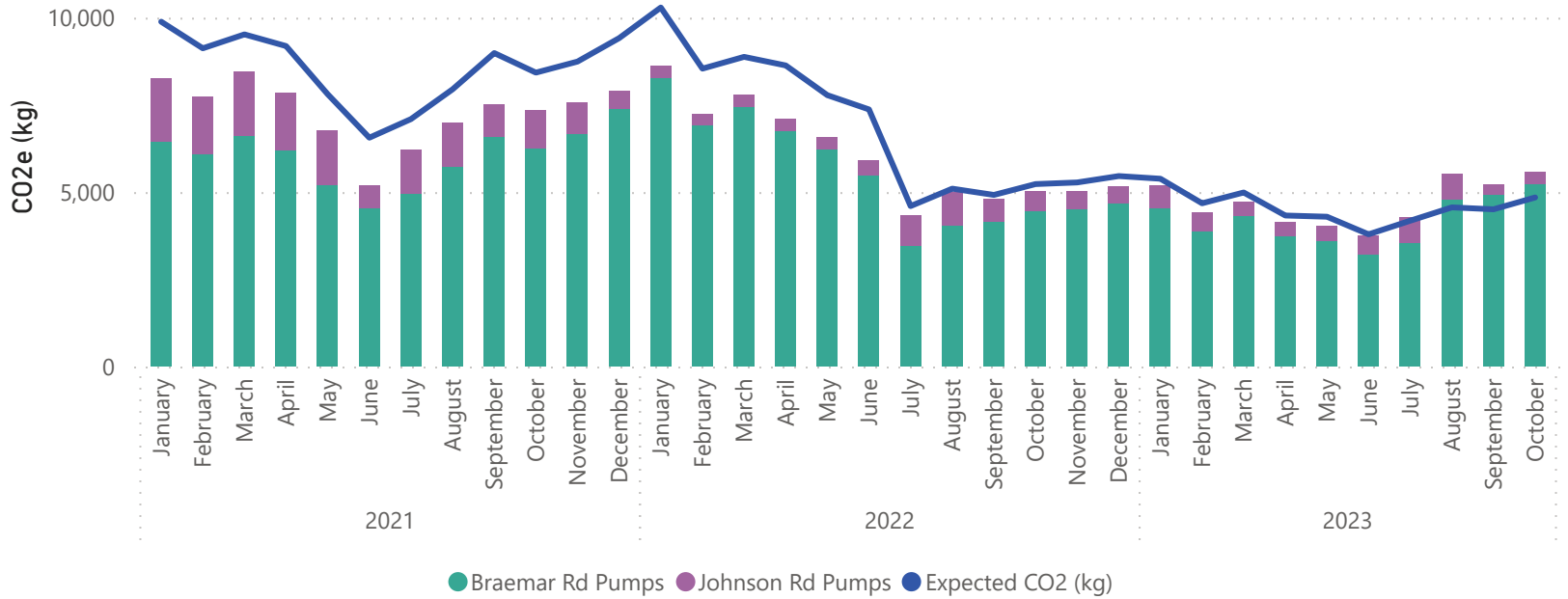


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

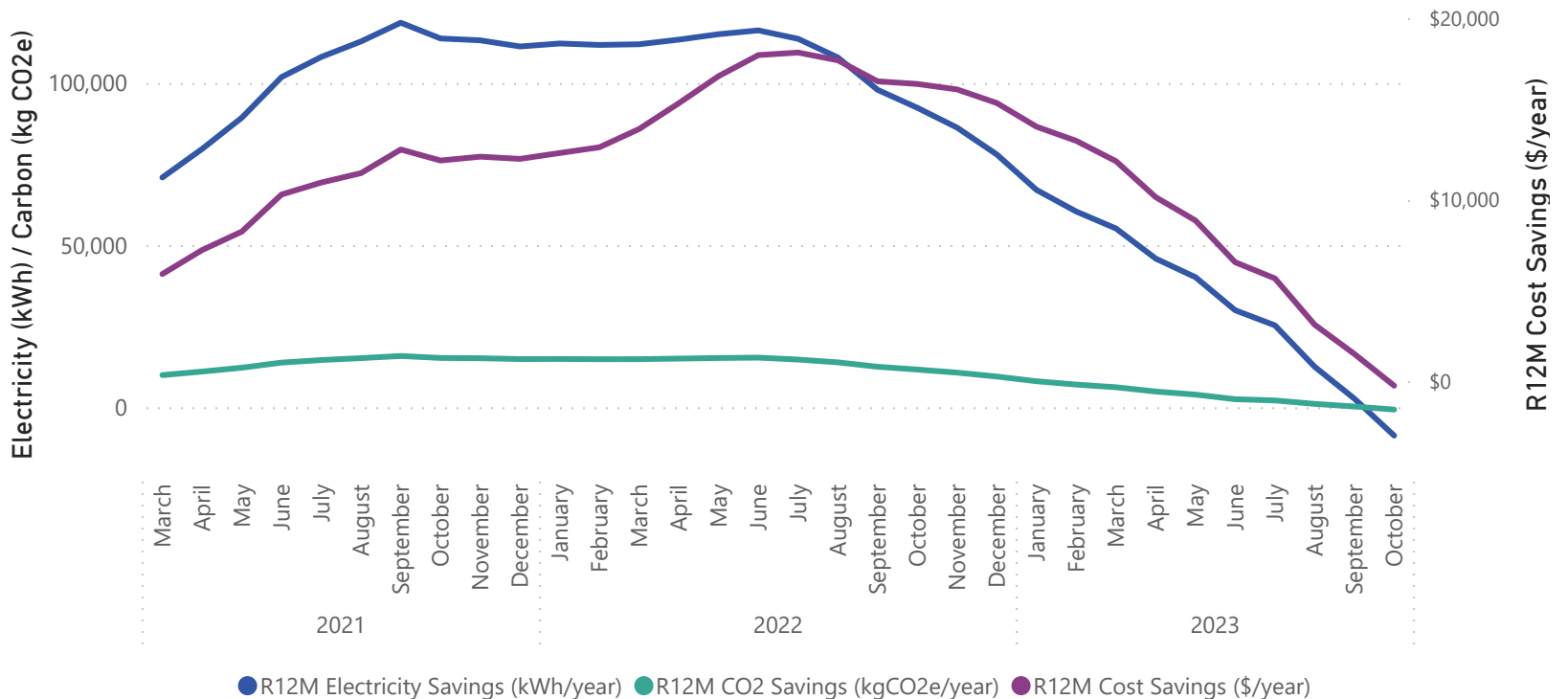
Whakatane District Council

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

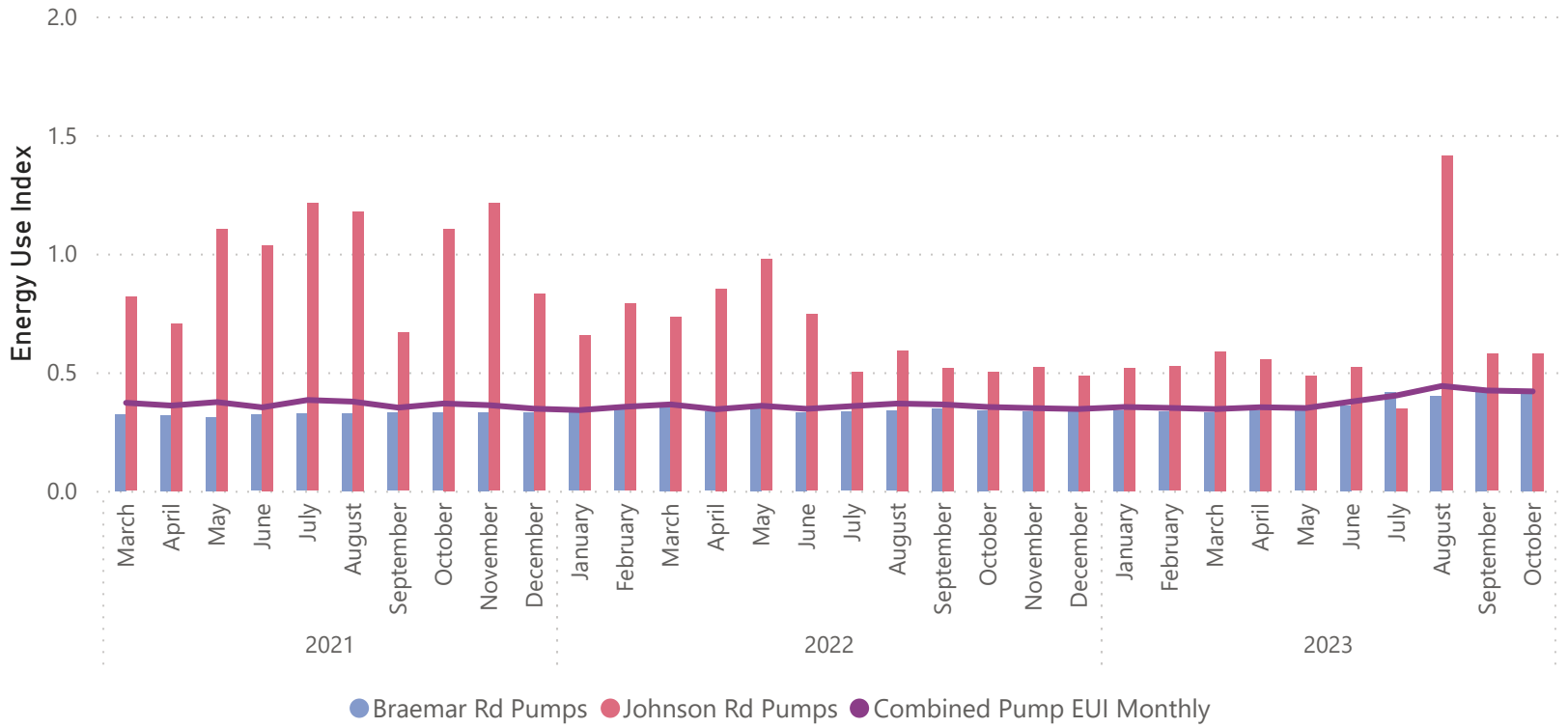


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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
Baselines were updated for all sites from July 2022.

Whakatane District Council

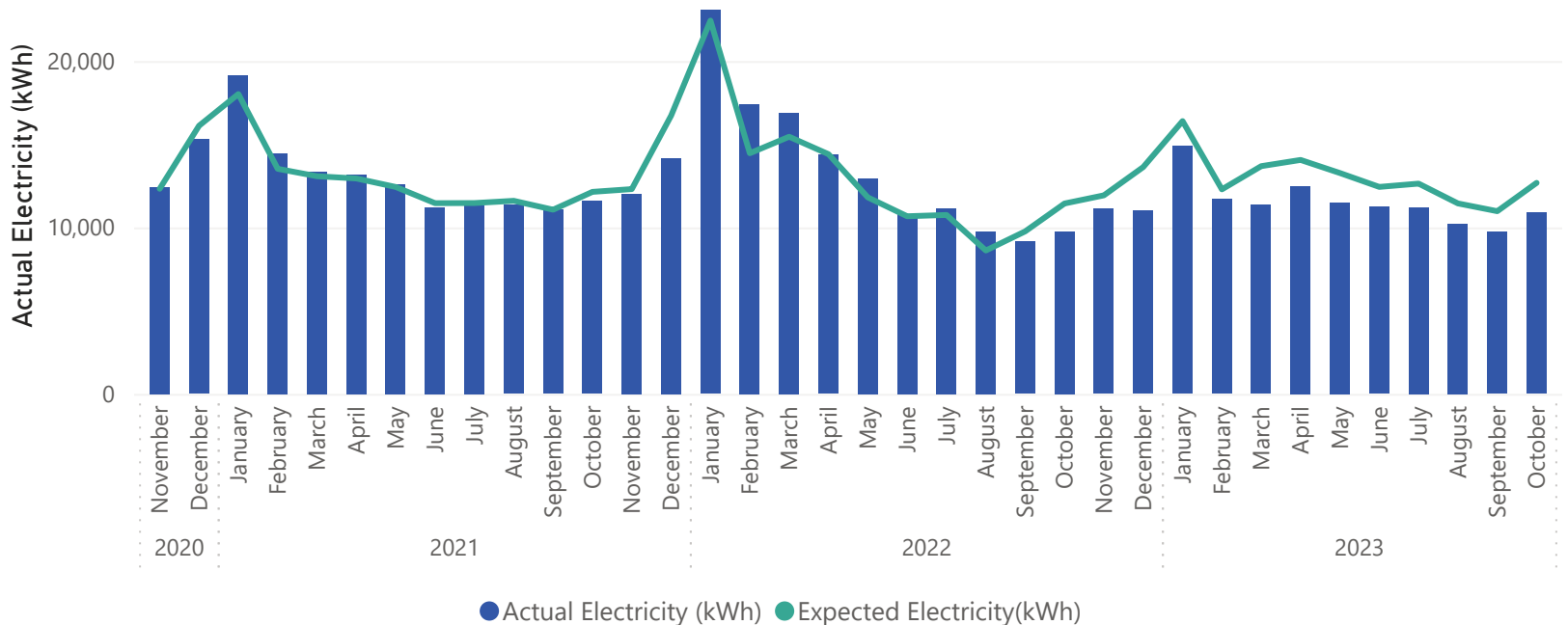
Bridger Glade Pump Station

<p>\$318 Monthly Energy Cost Savings</p>	<p>1,794 Elec. Savings (kWh/mo)</p>	<p>14% Elec. Savings (%)</p>	<p>18,113 R12M Electricity Savings (kWh/yr)</p>	<p>149 CO2e Savings (kg/mo)</p>
<p>\$3,197 R12M Energy Cost Savings</p>				<p>1,500 R12M CO2e Savings (kg/yr)</p>

Comments:

October 2023 is the 14th 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 1,500 kg CO2e.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

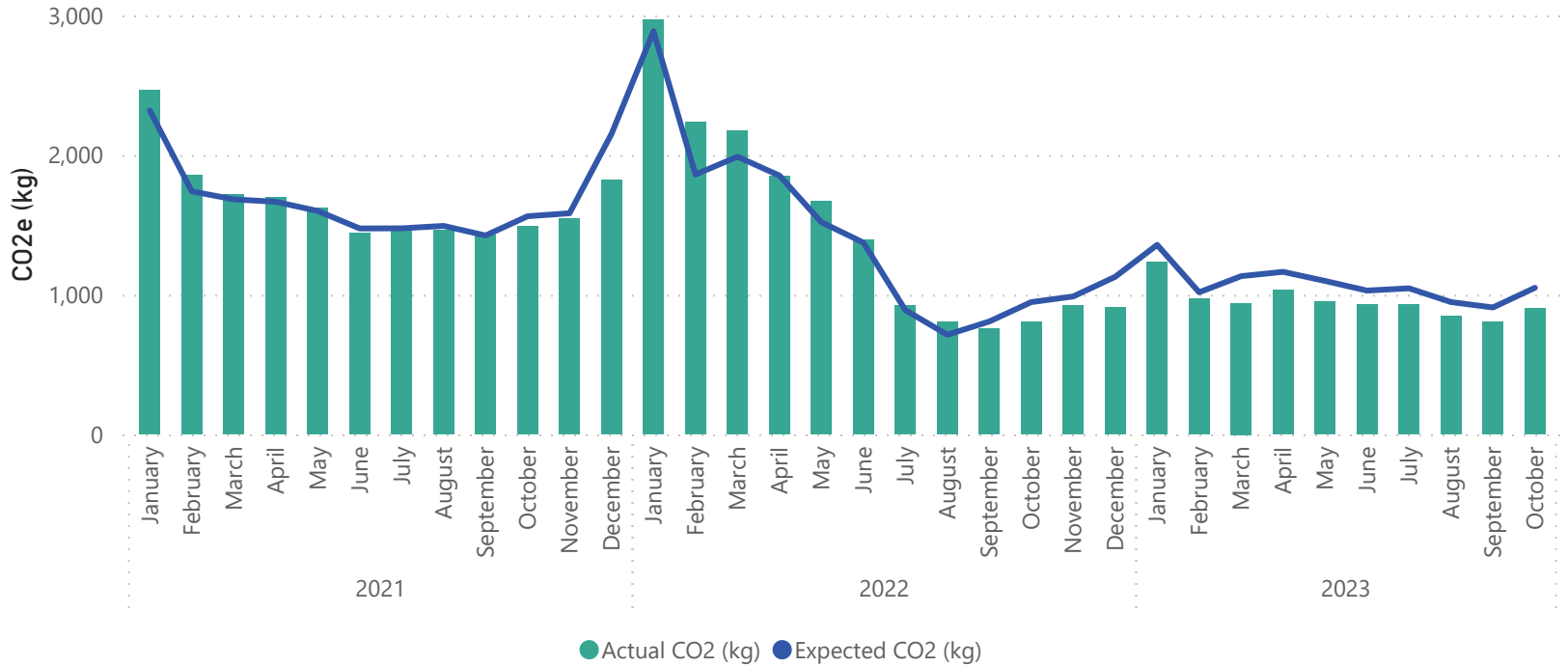


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

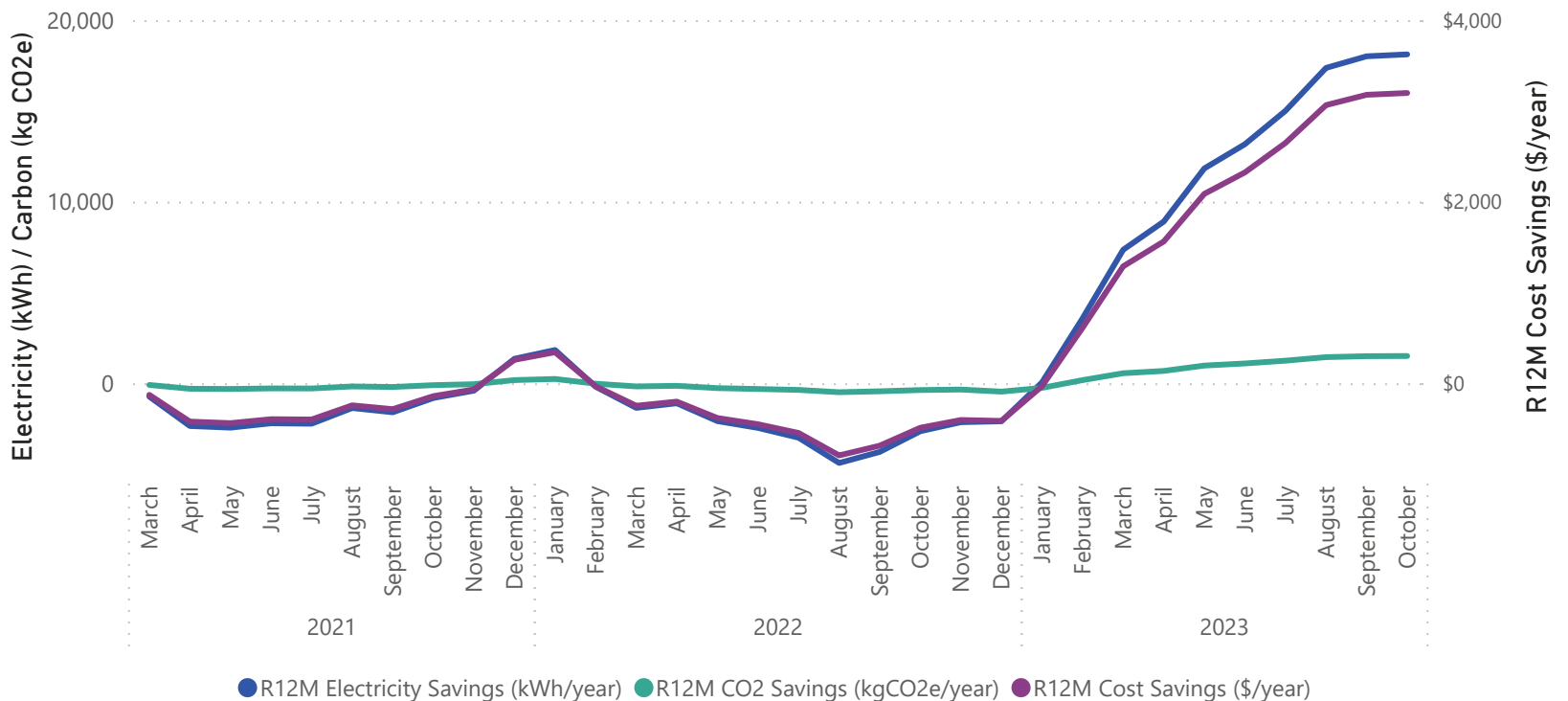
Whakatane District Council

Bridger Glade Pump Station

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



Bridger Glade Pumps Rolling 12 Month Savings

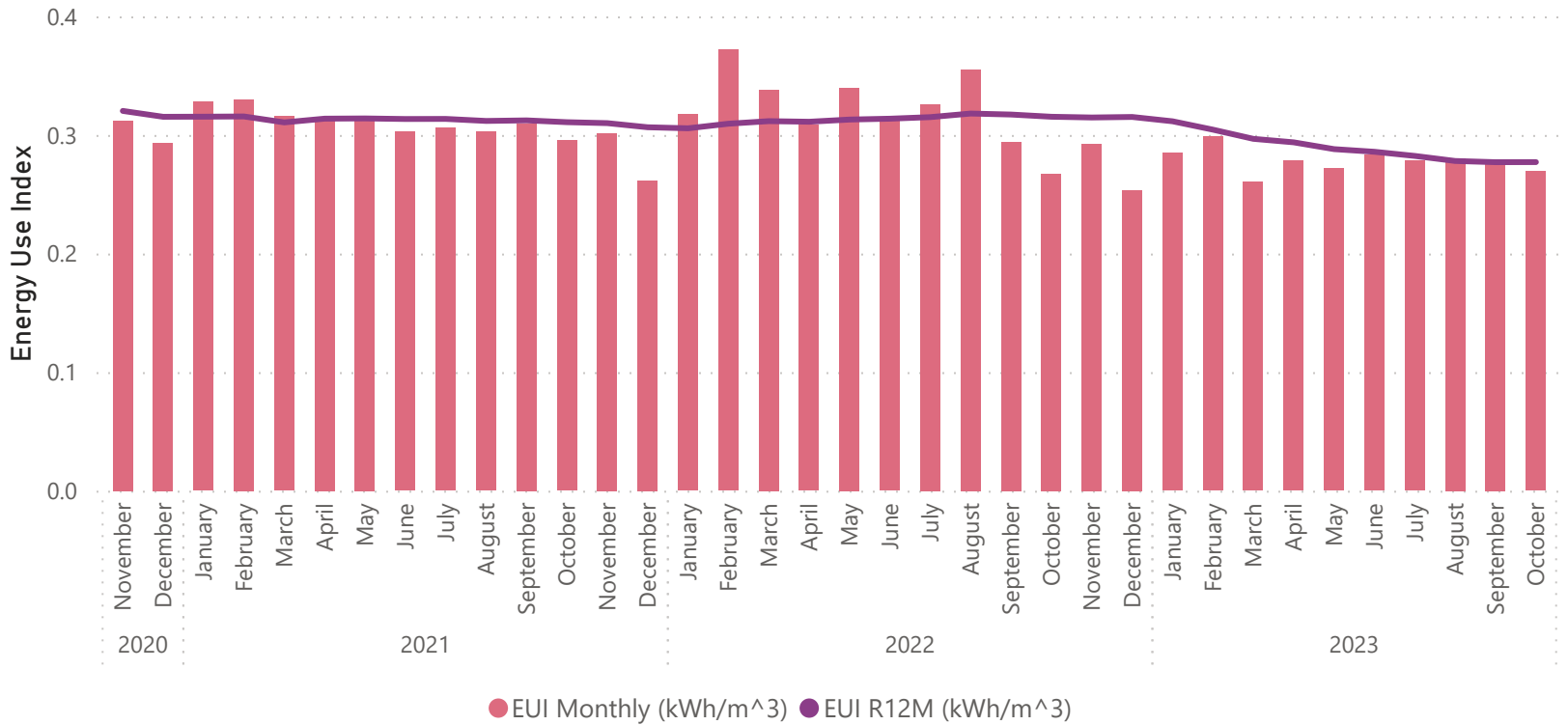


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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
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Whakatane District Council

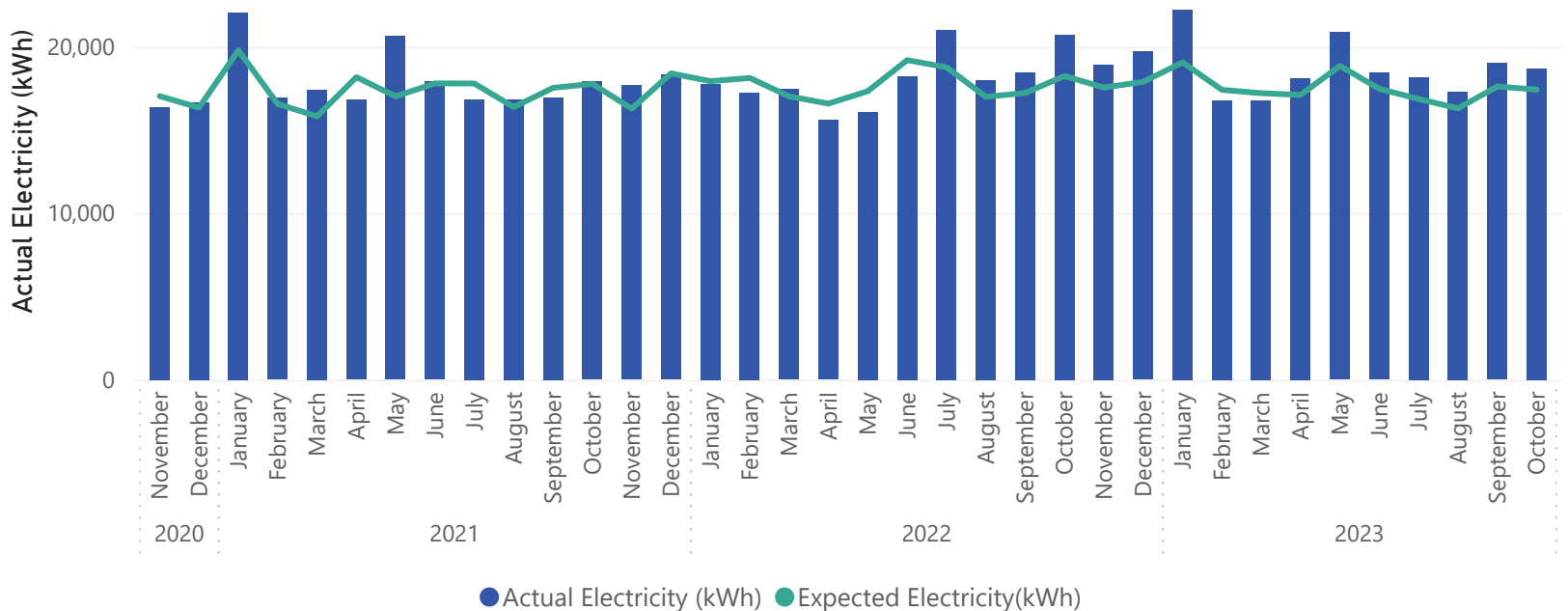
Ohope Oxidation Ponds

<p>-\$228 Monthly Energy Cost Savings</p>	<p>-1,258 Elec. Savings (kWh/mo)</p>	<p>-7% Elec. Savings (%)</p>	<p>-14,153 R12M Electricity Savings (kWh/yr)</p>	<p>-104 CO2e Savings (kg/mo)</p>
<p>-\$2,504 R12M Energy Cost Savings</p>				<p>-1,172 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 October is close to average for the past 12 months.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

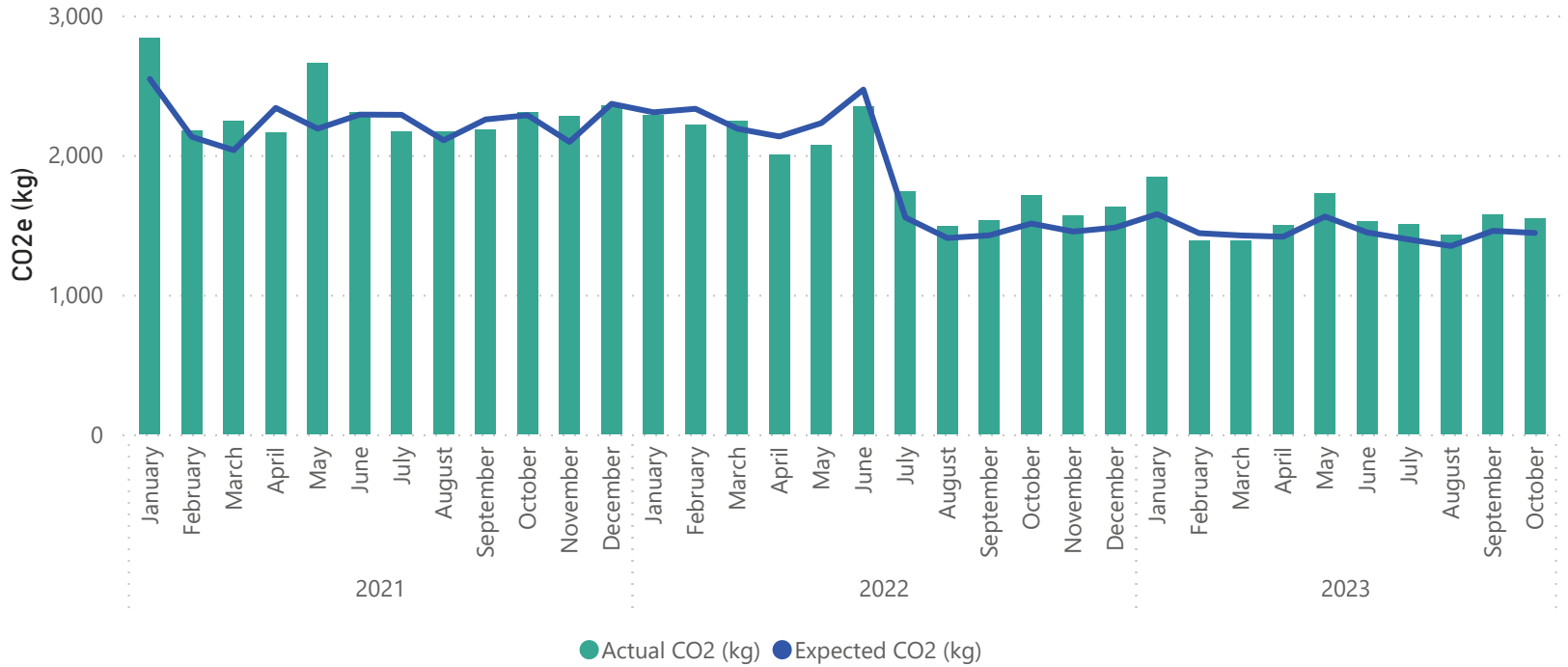


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

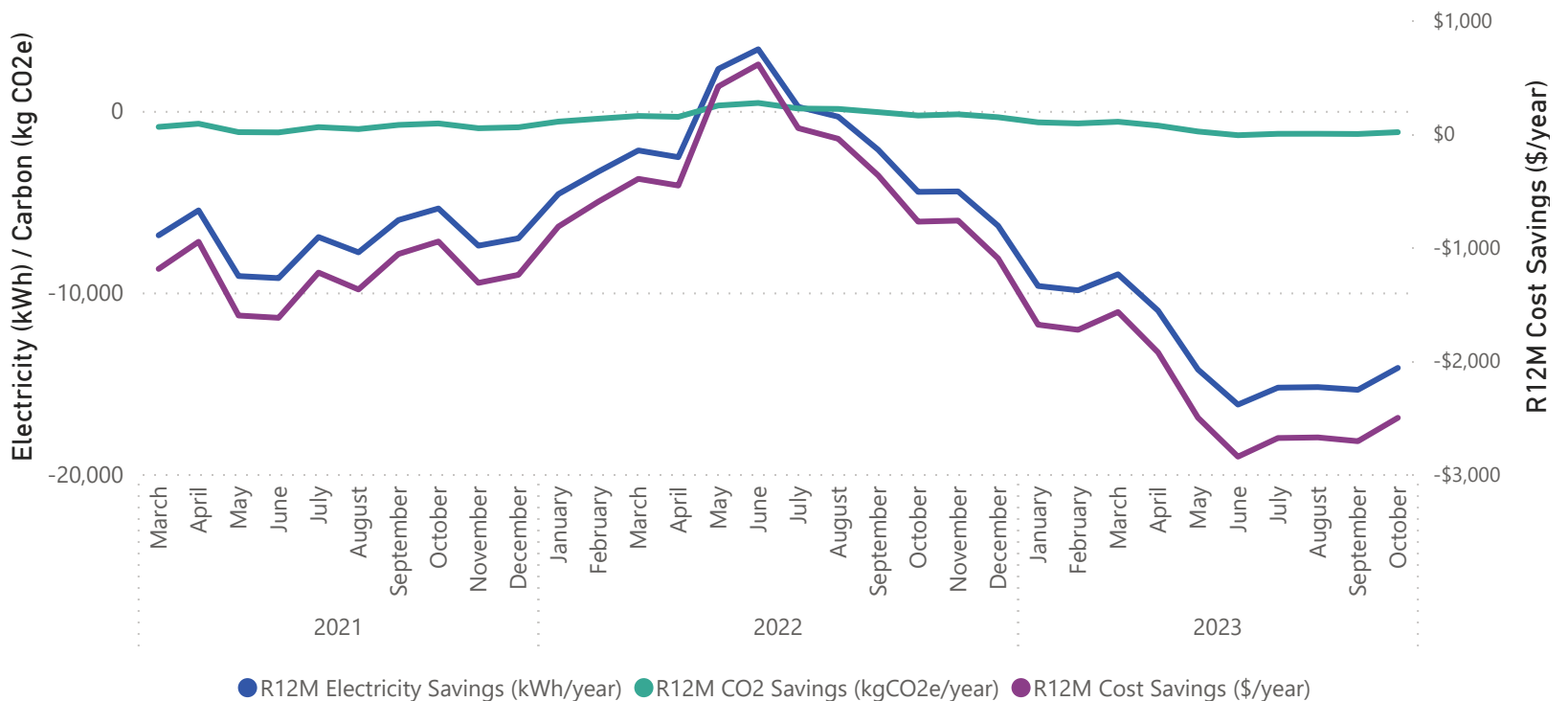
Whakatane District Council

Ohope Oxidation Ponds

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



Ohope Oxidation Ponds Rolling 12 Month Savings

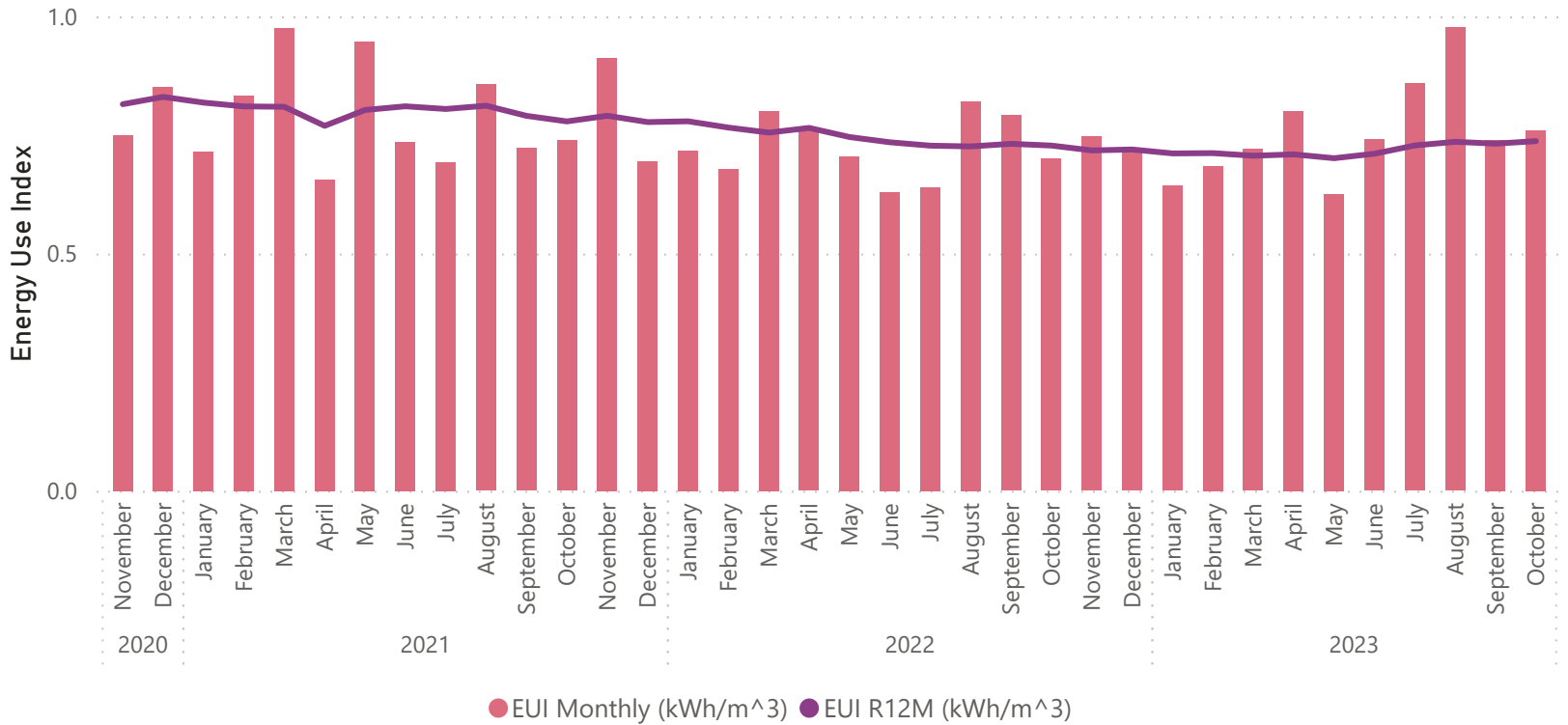


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Ohope Oxidation Ponds

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



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Whakatane District Council

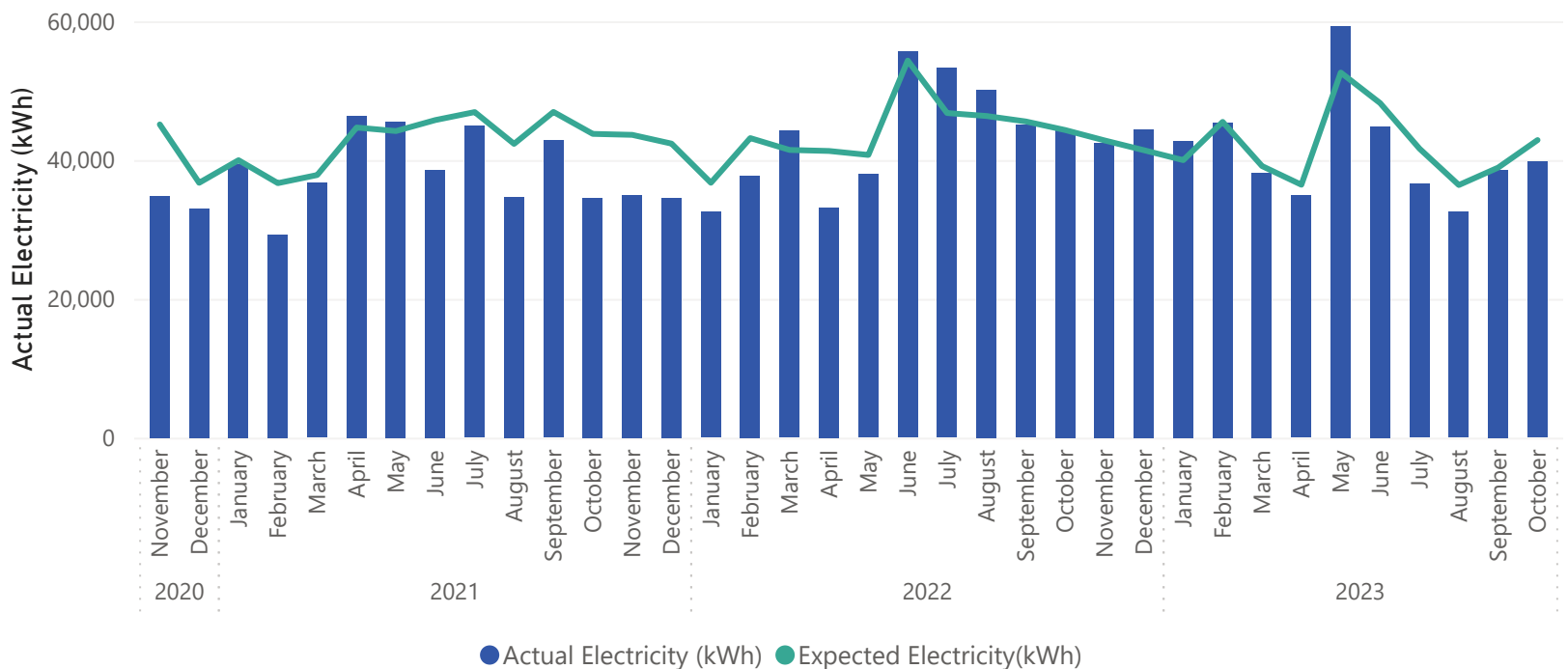
Whakatane Oxidation Ponds

<p>\$535 Monthly Energy Cost Savings</p>	<p>3,128 Elec. Savings (kWh/mo)</p>	<p>7% Elec. Savings (%)</p>	<p>6,344 R12M Electricity Savings (kWh/yr)</p>	<p>259 CO2e Savings (kg/mo)</p>
<p>\$1,349 R12M Energy Cost Savings</p>				<p>525 R12M CO2e Savings (kg/yr)</p>

Comments:

The oxidation ponds used less electricity than expected in October 2023. October 2023 was a month with lower than average rainfall, approximately 70mm 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)

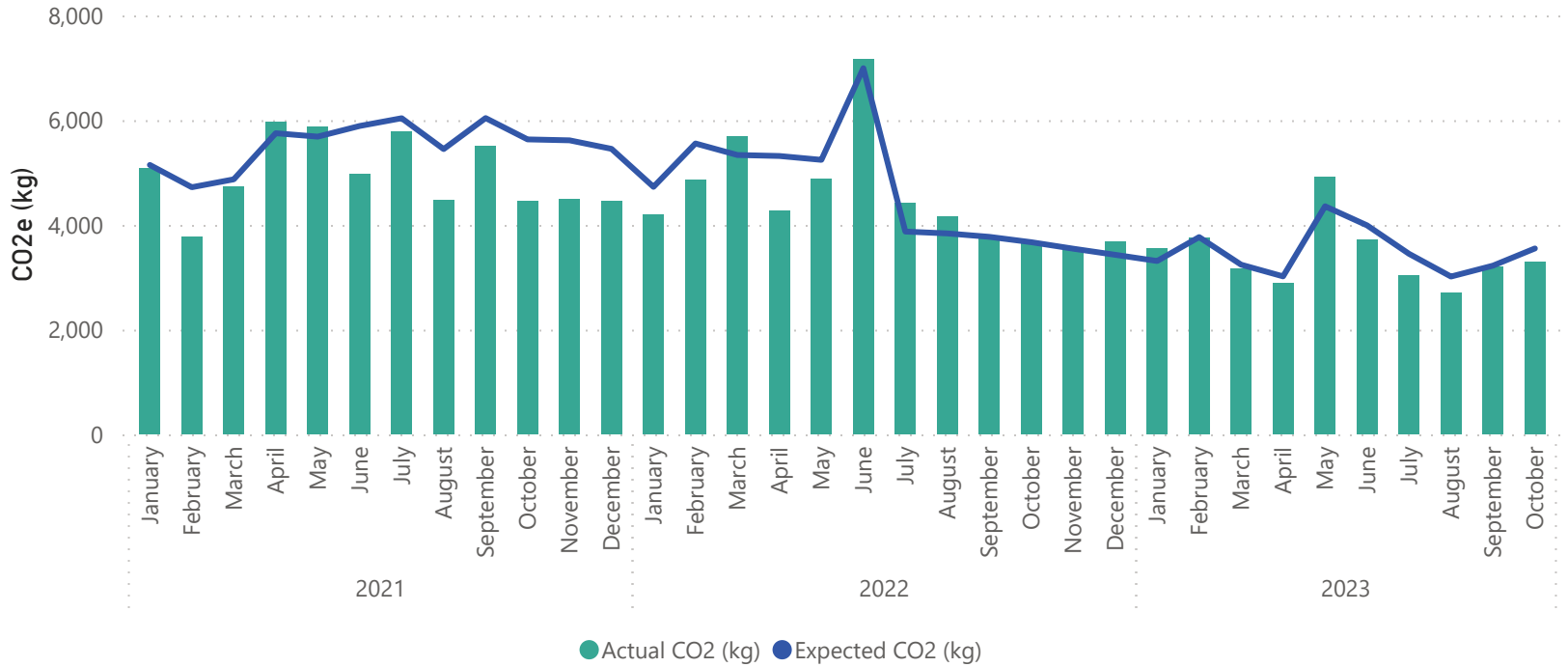


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

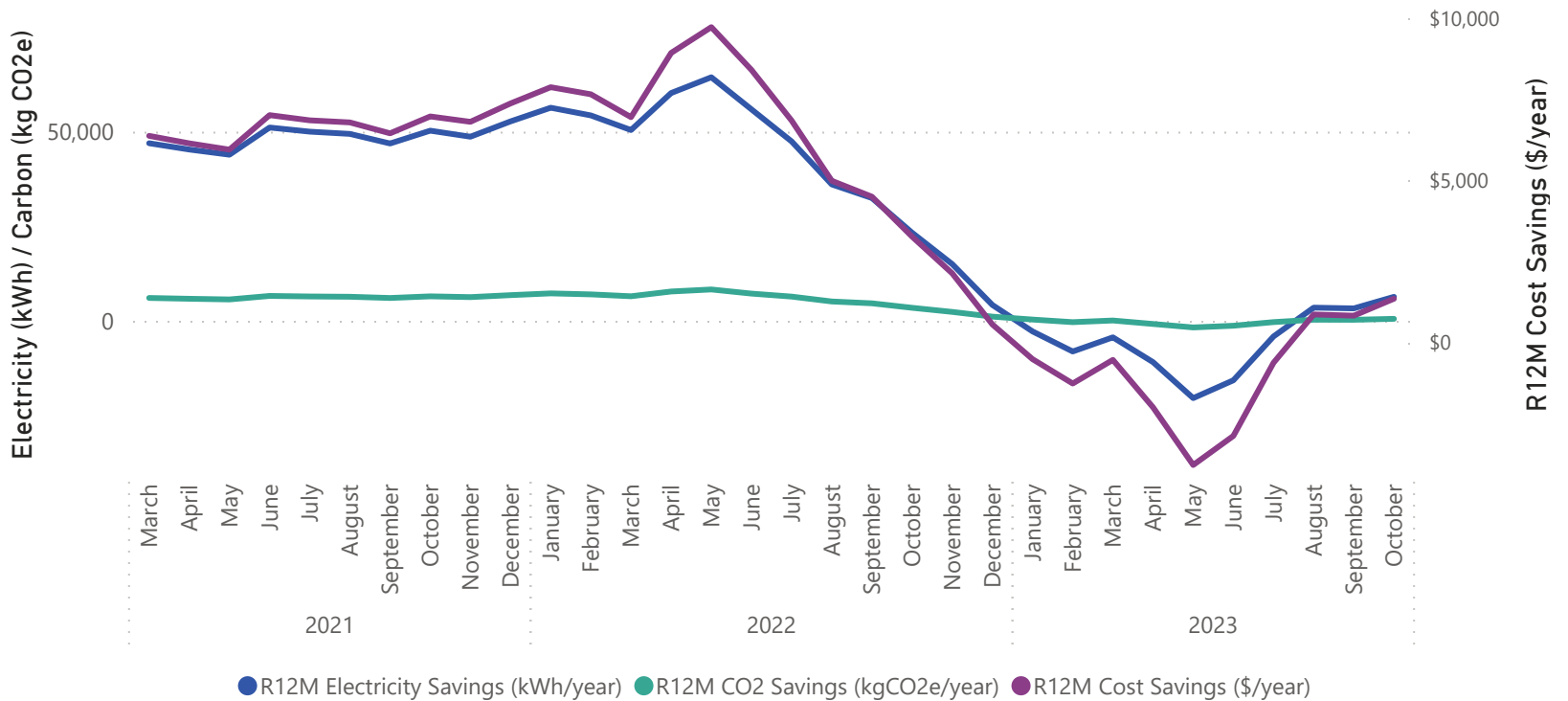
Whakatane District Council

Whakatane Oxidation Ponds

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



Whakatane Oxidation Ponds Rolling 12 Month Savings

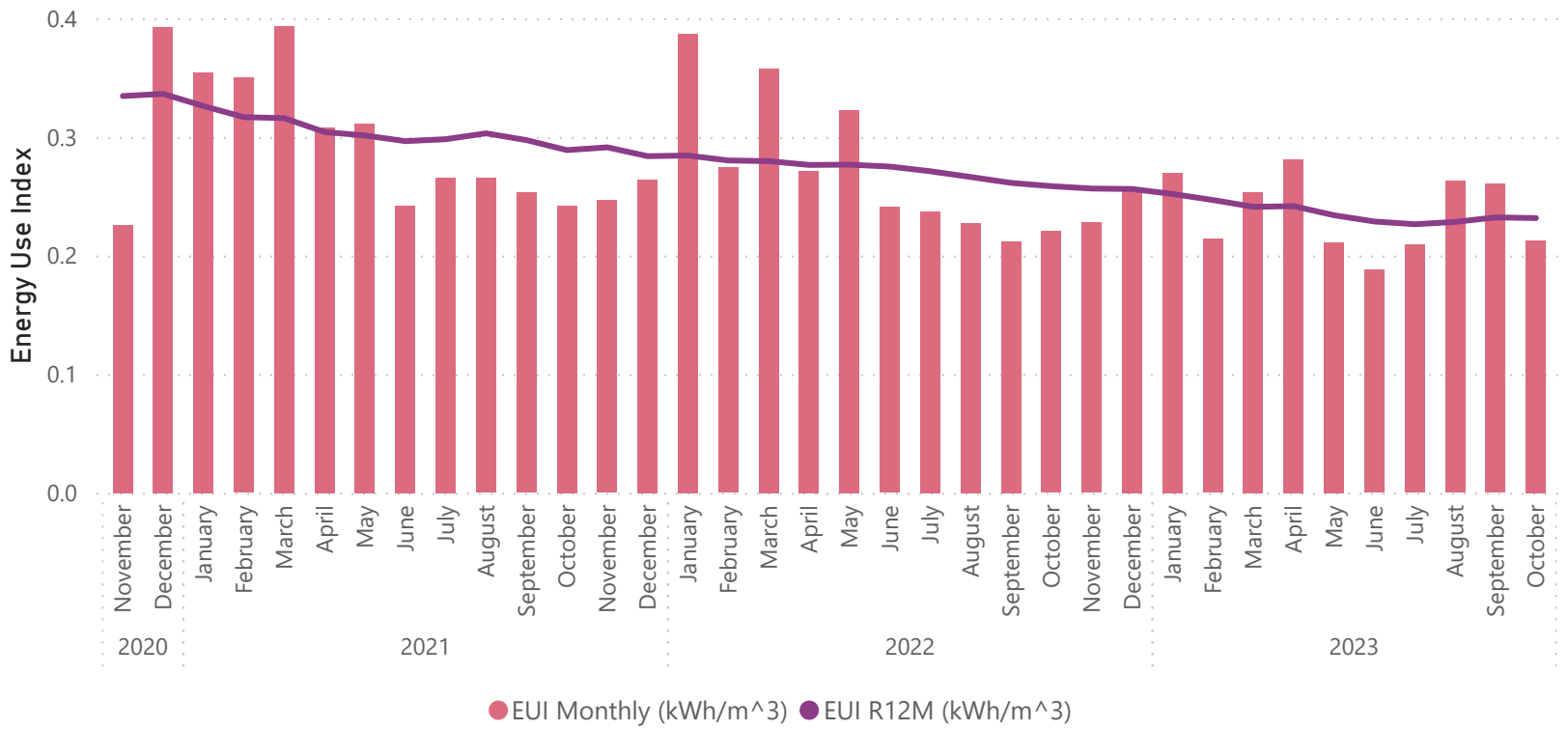


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

Whakatane District Council

Whakatane Oxidation Ponds

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



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Whakatane District Council

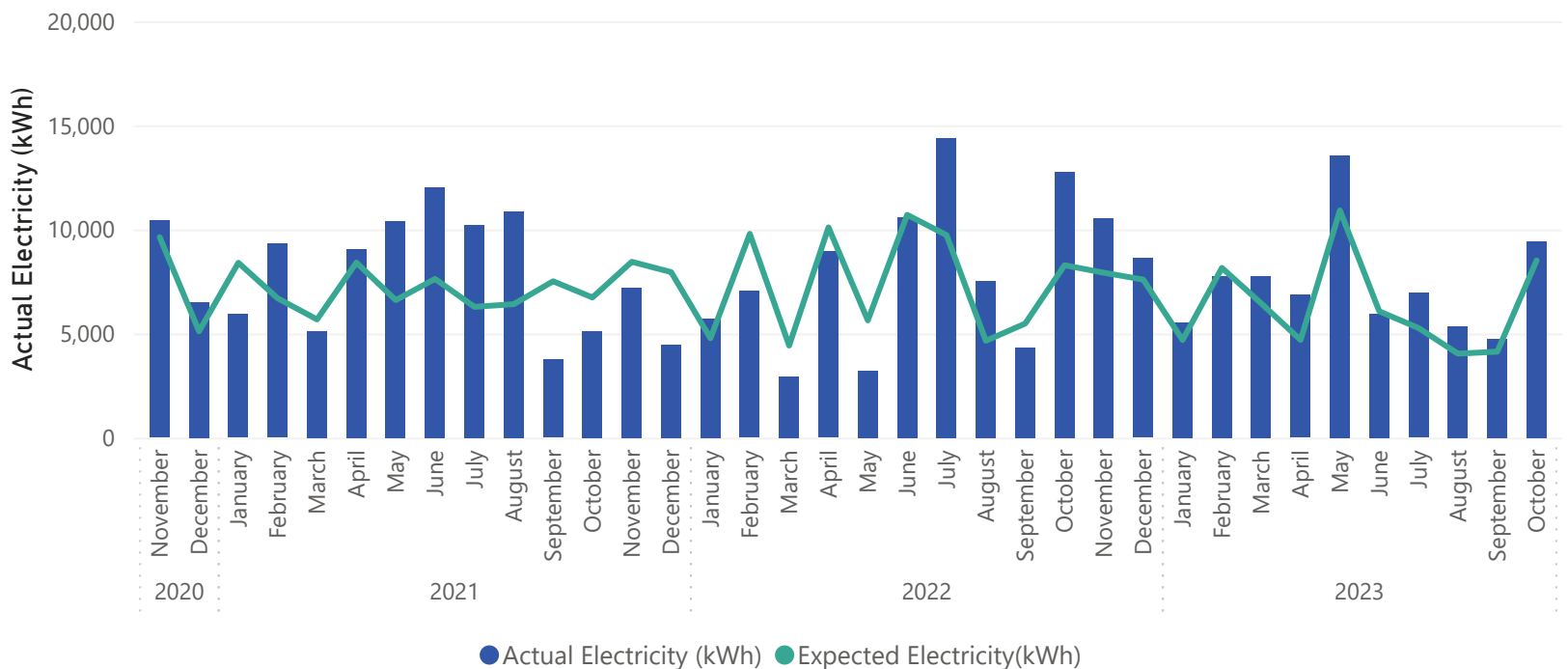
McAlister Street and Rose Garden Pump Stations

<p>\$203 Monthly Energy Cost Savings</p>	<p>-920 Elec. Savings (kWh/mo)</p>	<p>-11% Elec. Savings (%)</p>	<p>-14,630 R12M Electricity Savings (kWh/yr)</p>	<p>-76 CO2e Savings (kg/mo)</p>
<p>\$1,021 R12M Energy Cost Savings</p>				<p>-1,211 R12M CO2e Savings (kg/yr)</p>

Comments:

The pump stations used 11% more electricity than expected this month. Approximately 230mm 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)

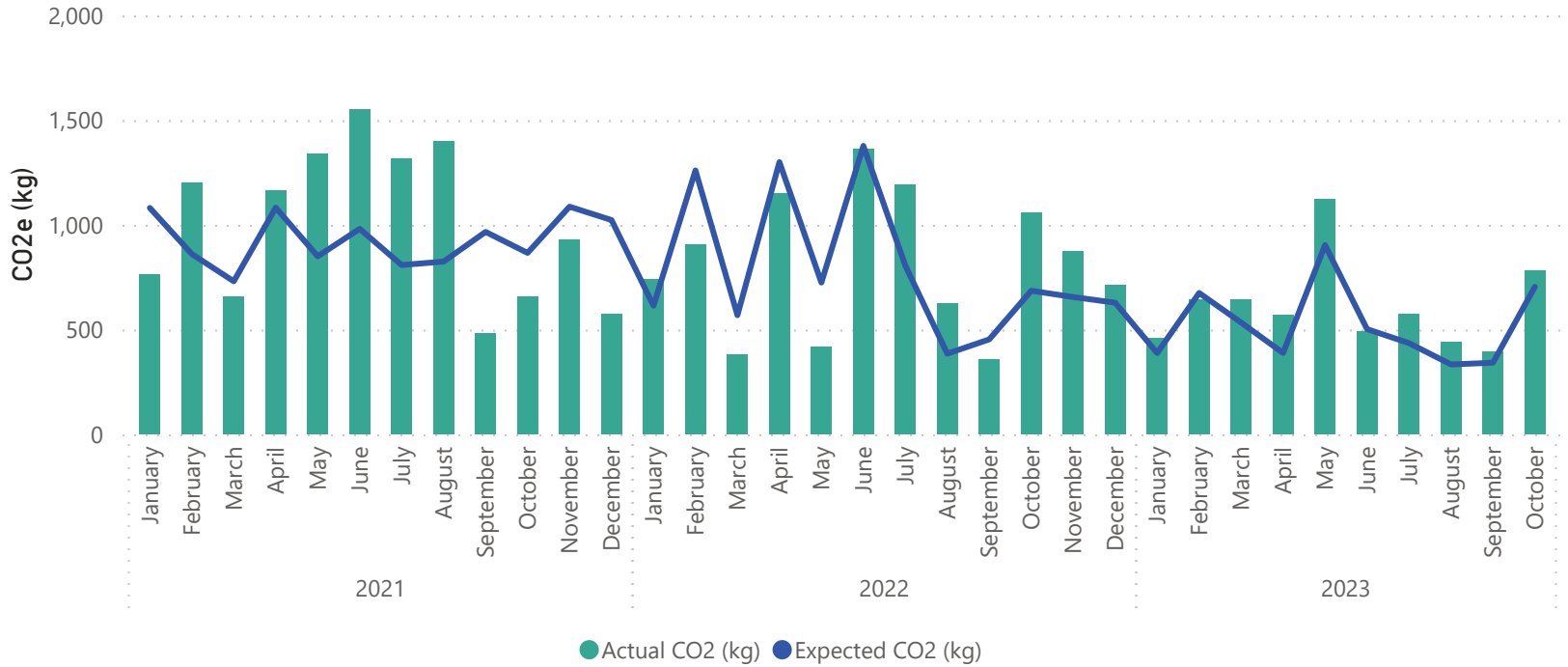


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

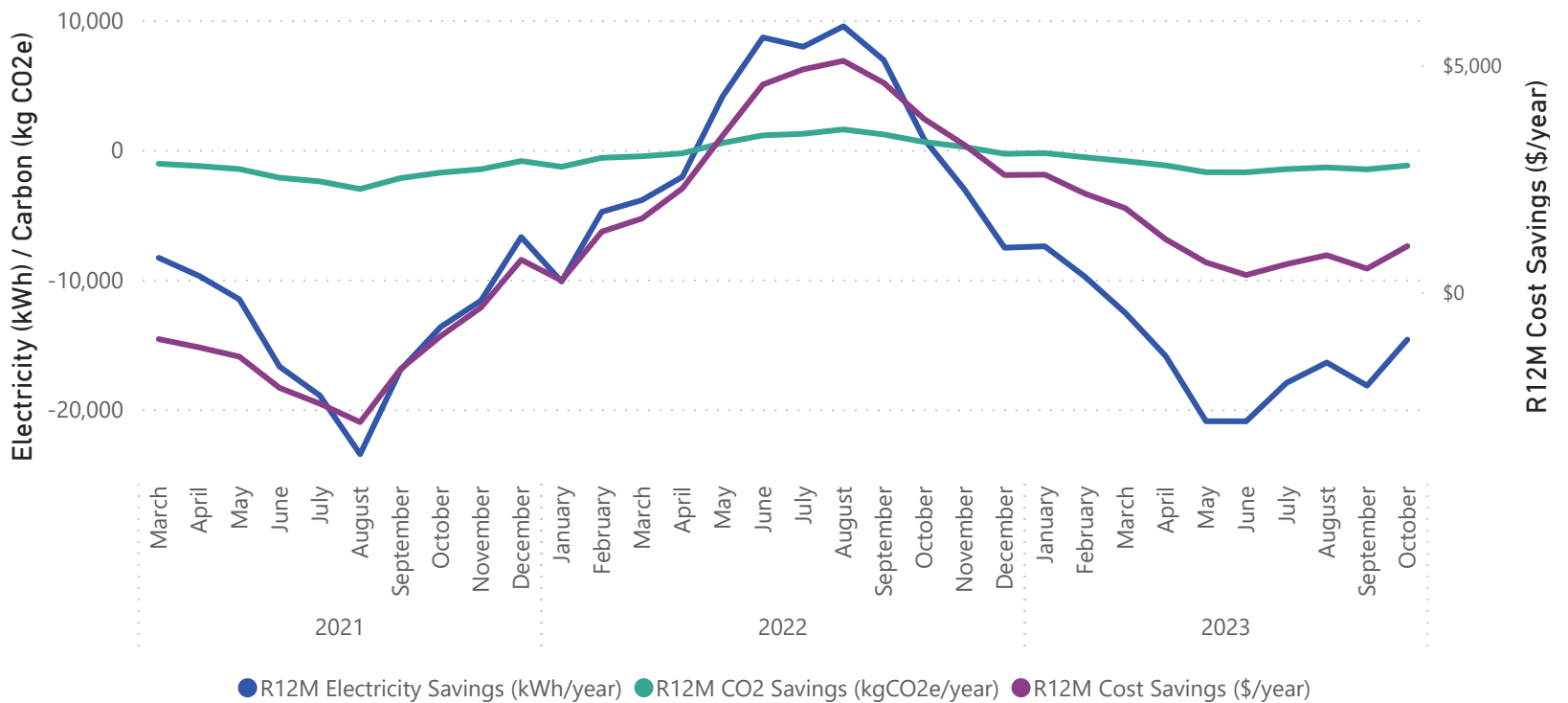
Whakatane District Council

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

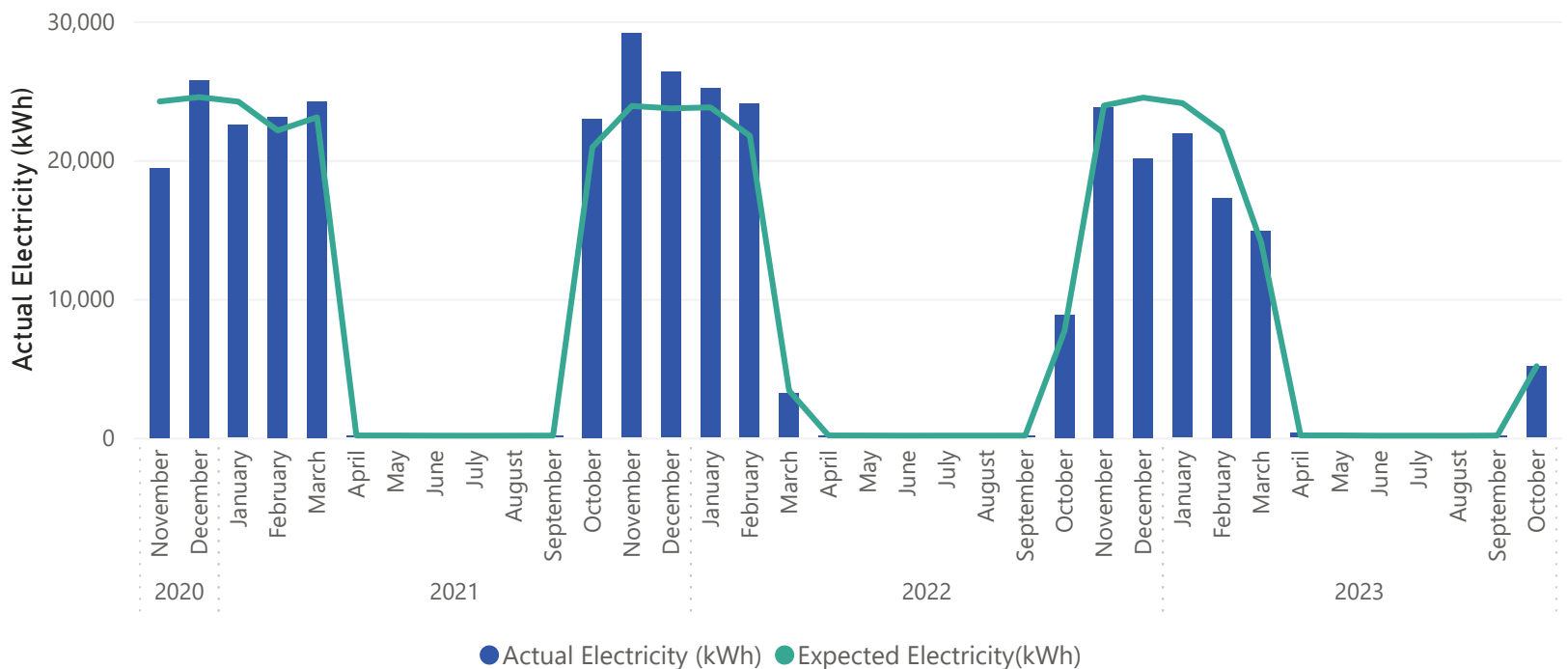
Murupara Pools

<p>\$1 Monthly Energy Cost Savings</p>	<p>6 Elec. Savings (kWh/mo)</p>	<p>0% Elec. Savings (%)</p>	<p>10,498 R12M Electricity Savings (kWh/yr)</p>	<p>0 CO2e Savings (kg/mo)</p>
<p>\$1,833 R12M Energy Cost Savings</p>				<p>869 R12M CO2e Savings (kg/yr)</p>

Comments:

Murupara Pools have opened for the season, heating of the pools started in late October 2023.

Murupara Pools Electricity Use Compared to Baseline (kWh)

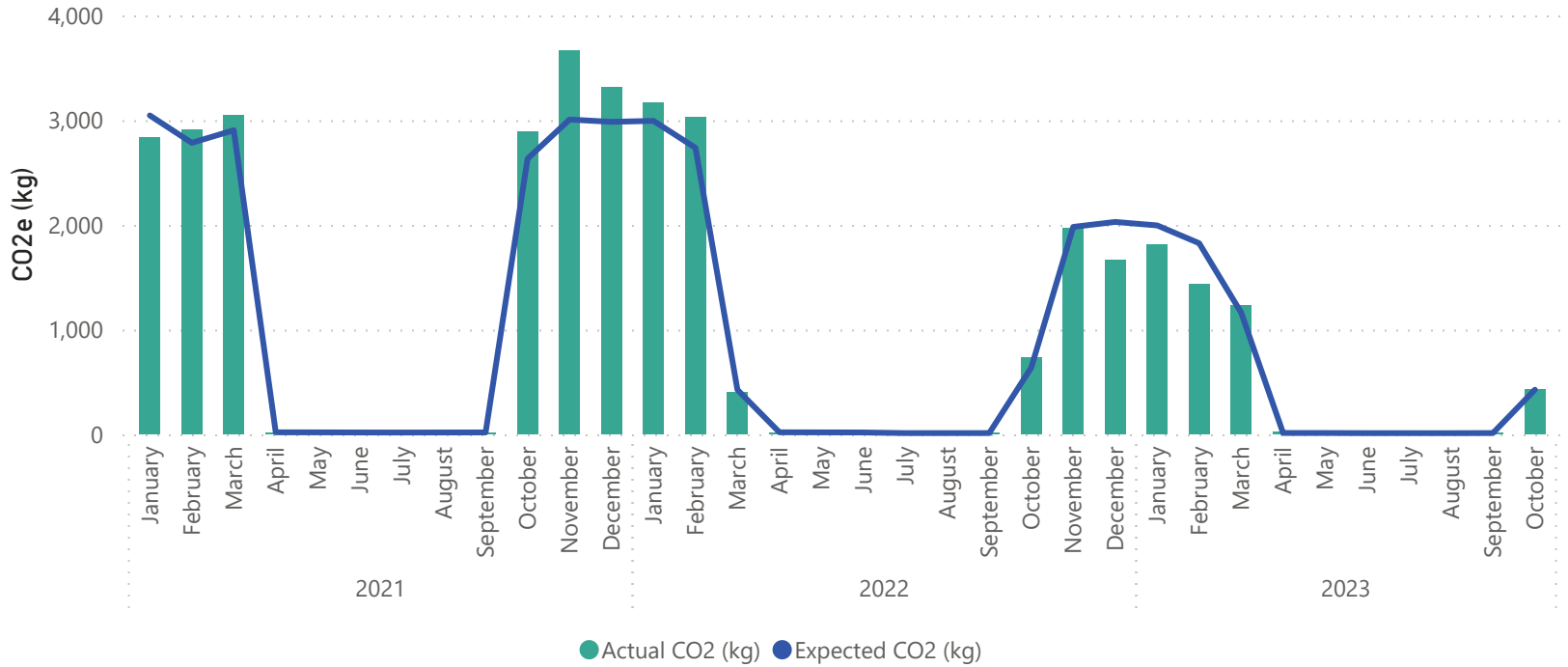


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

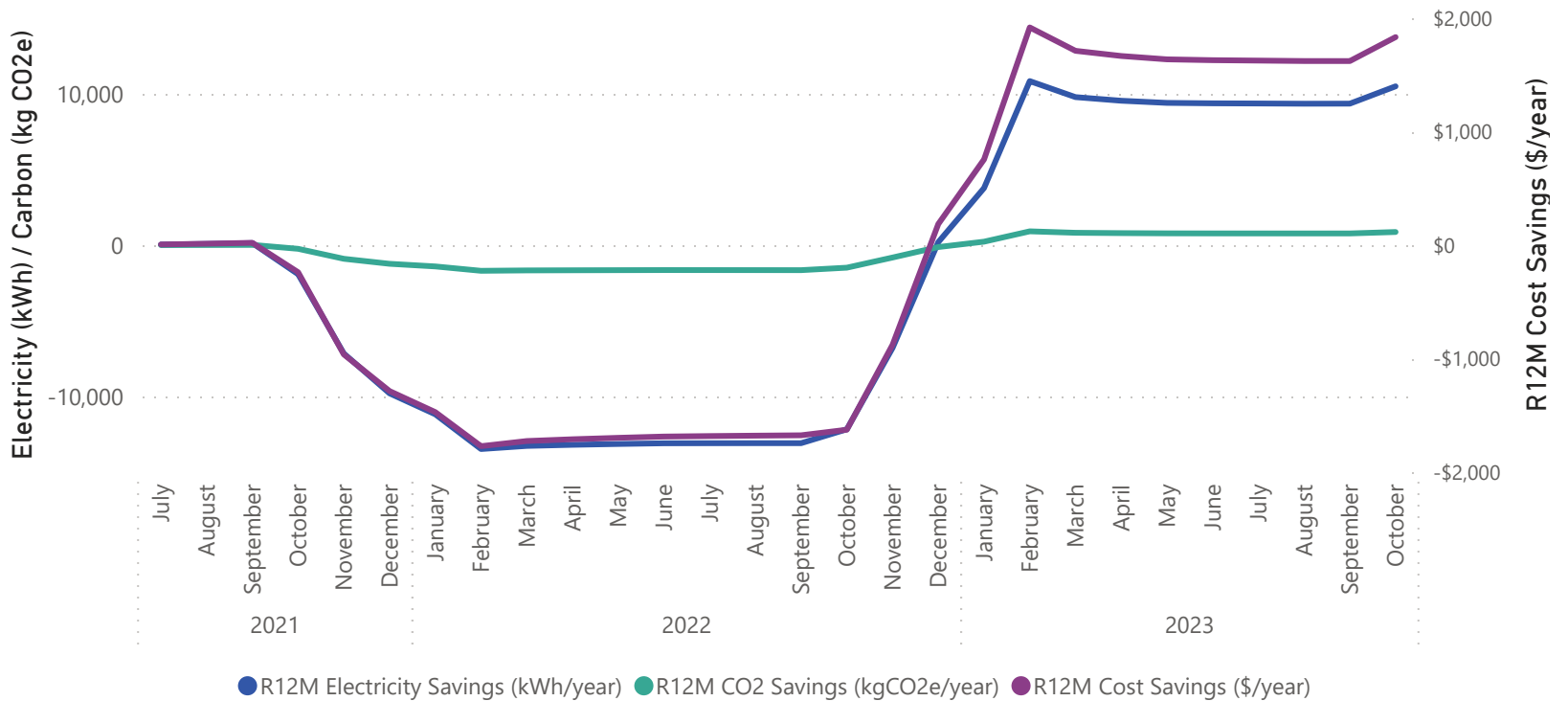
Whakatane District Council

Murupara Pools

Murupara Pools Carbon Emissions Compared to Baseline (kg CO2e)



Murupara Pools Rolling 12 Month Savings



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