

# Whakatane District Council

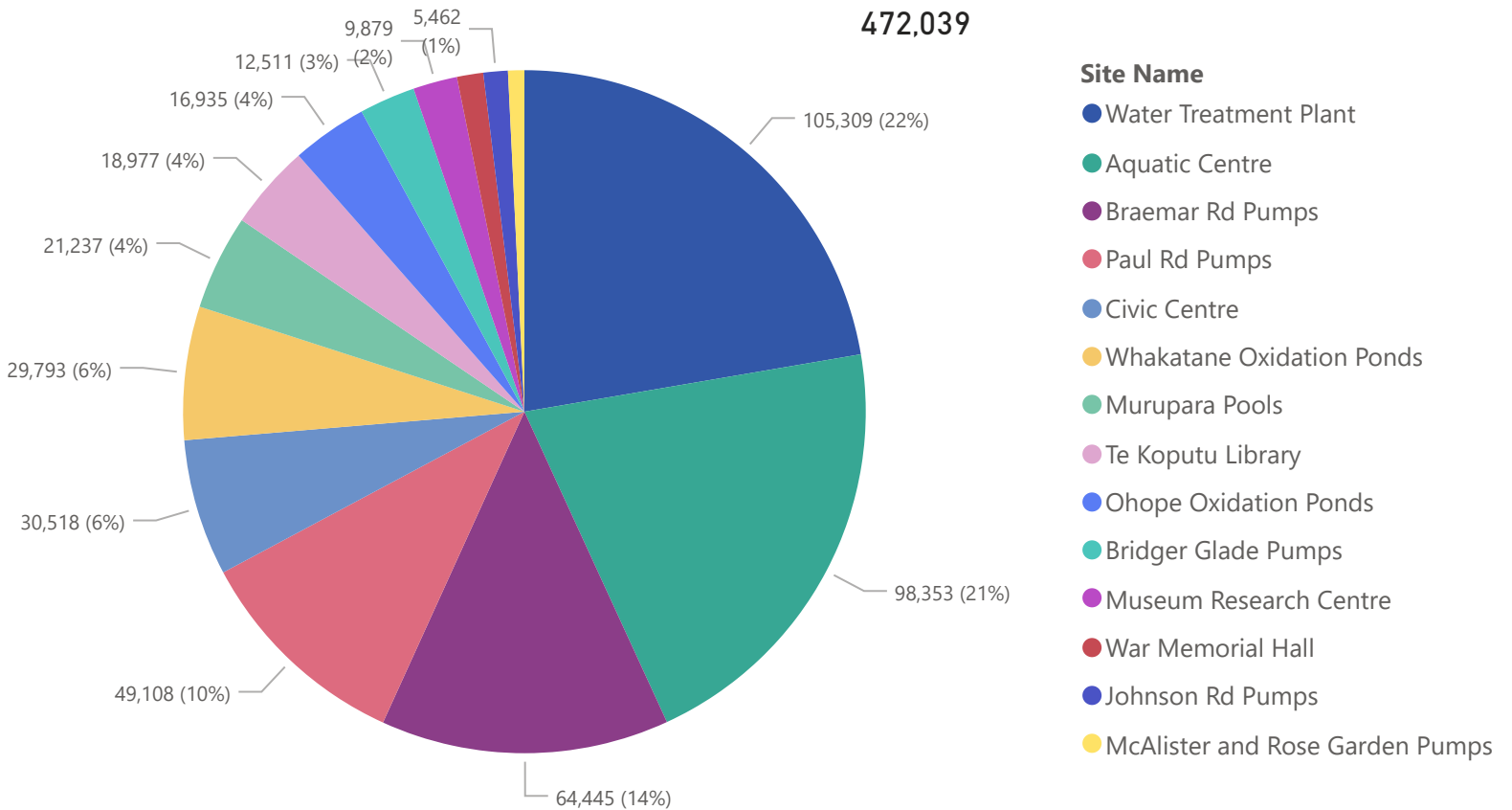
## Summary

<p><b>\$9,425</b> Monthly Energy Cost Savings</p>	<p><b>51,528</b> Elec. Savings (kWh/mo)</p>	<p><b>10%</b> Elec. Savings (%)</p>	<p><b>642,319</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>4,727</b> CO2e Savings (kg/mo)</p>
<p><b>\$99,133</b> R12M Energy Cost Savings</p>	<p><b>2,292</b> Gas. Savings (kWh/mo)</p>	<p><b>11%</b> Gas. Savings (%)</p>	<p><b>-217,511</b> R12M Gas Savings (kWh/yr)</p>	<p><b>9,436</b> R12M CO2e Savings (kg/yr)</p>

### Total Energy (kWh/Month)

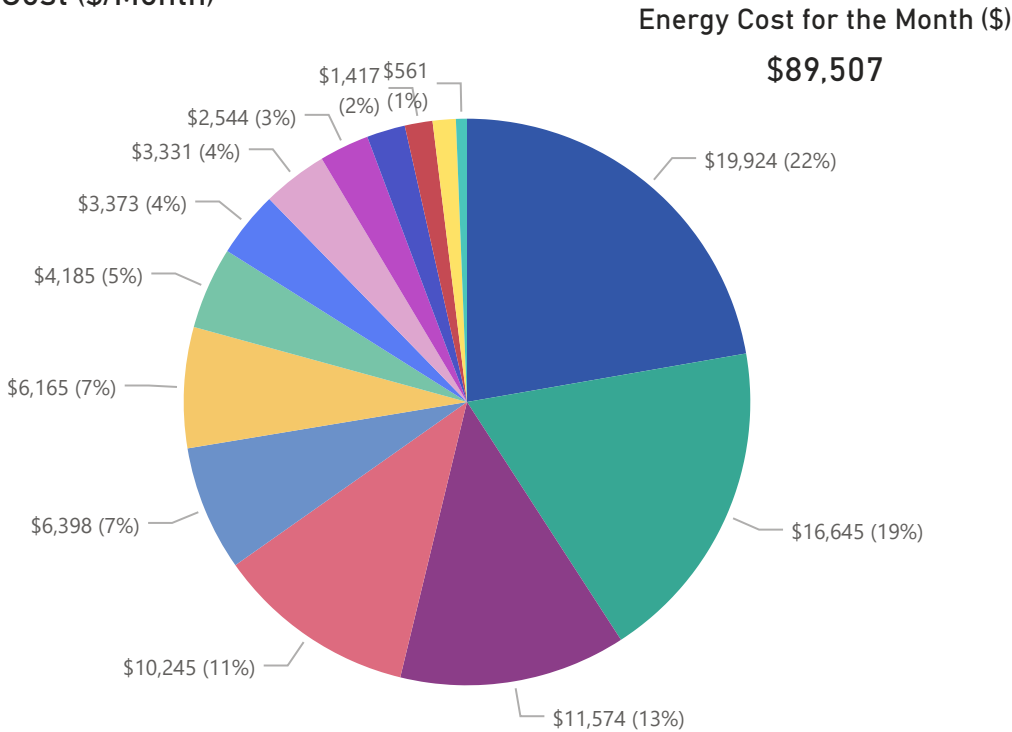
Total Energy Used for the Month (kWh)

**472,039**



# Whakatane District Council Summary

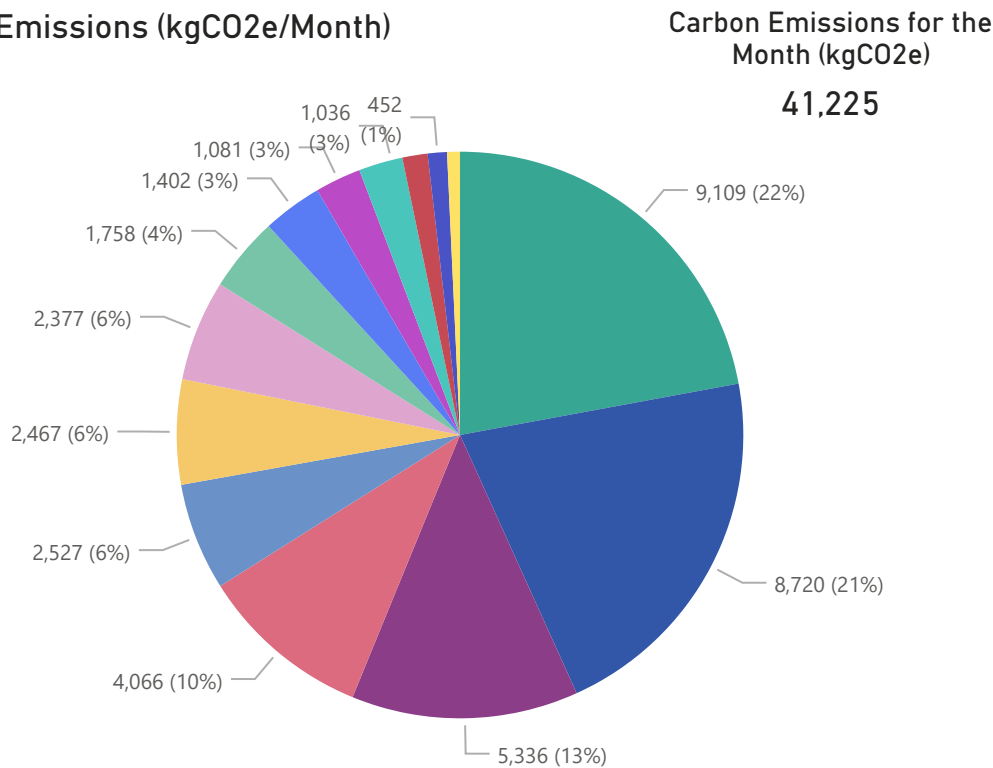
## Energy Cost (\$/Month)



### Site Name

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

## Carbon Emissions (kgCO2e/Month)



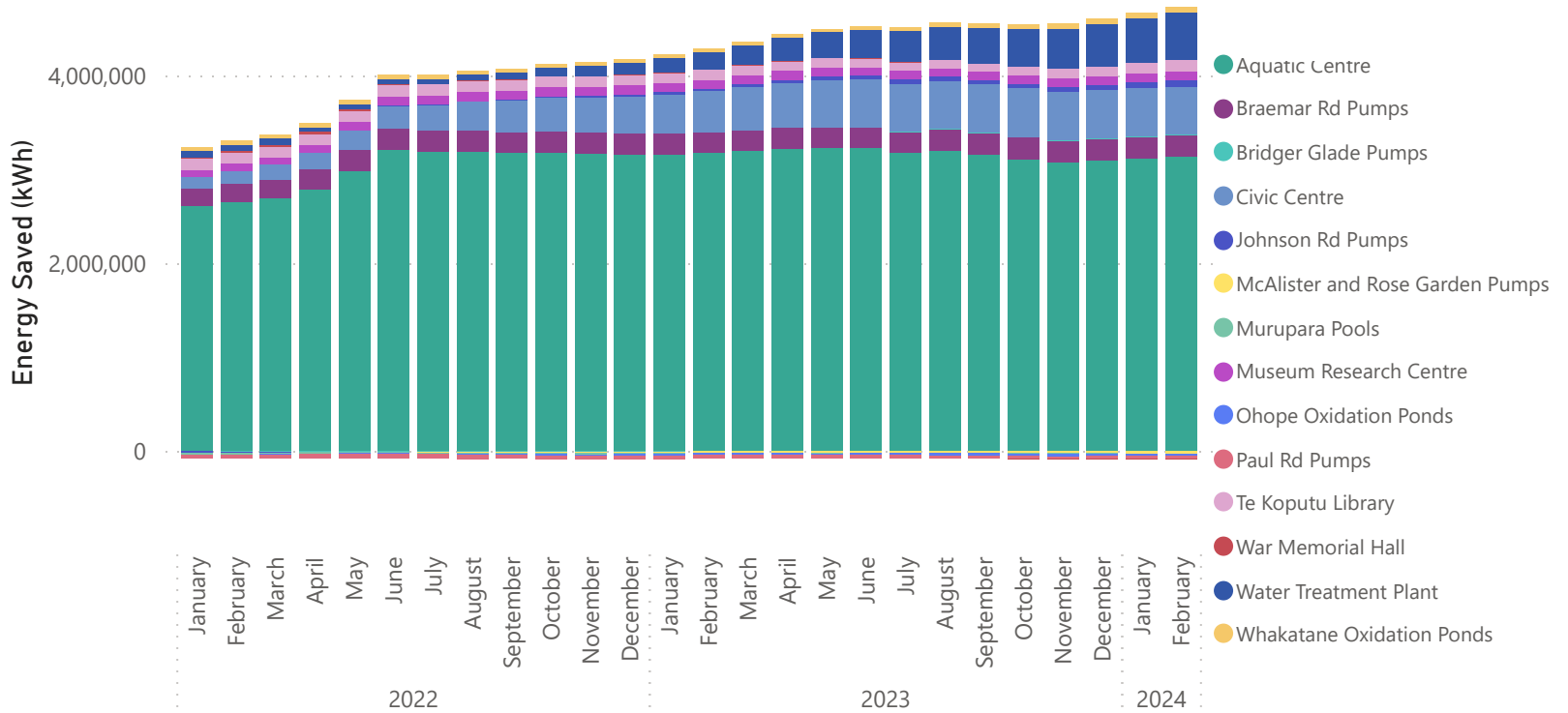
### Site Name

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- Johnson Rd Pumps
- McAlister and Rose Garden Pumps

# Whakatane District Council

## Summary

Cumulative Energy Savings (kWh)



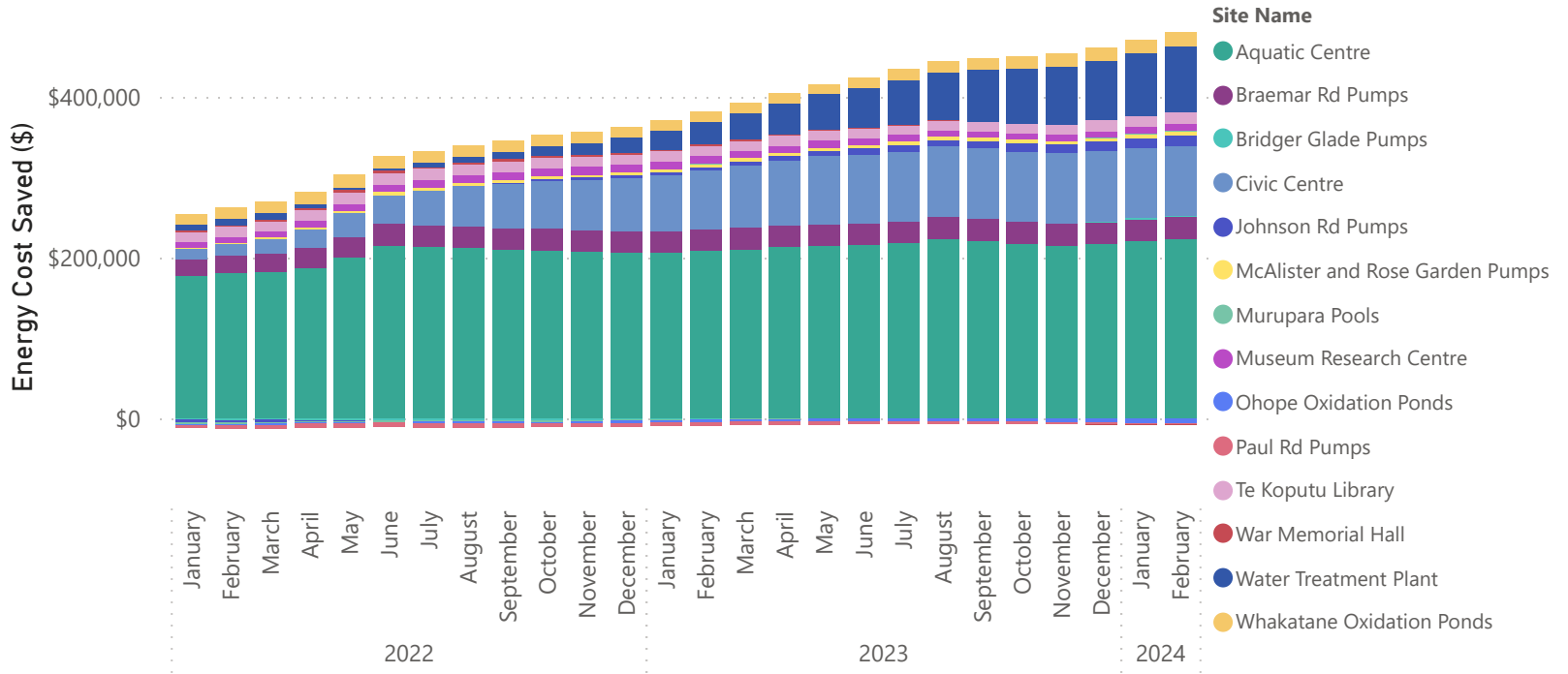
Note, cumulative savings are calculated starting July 2018

**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

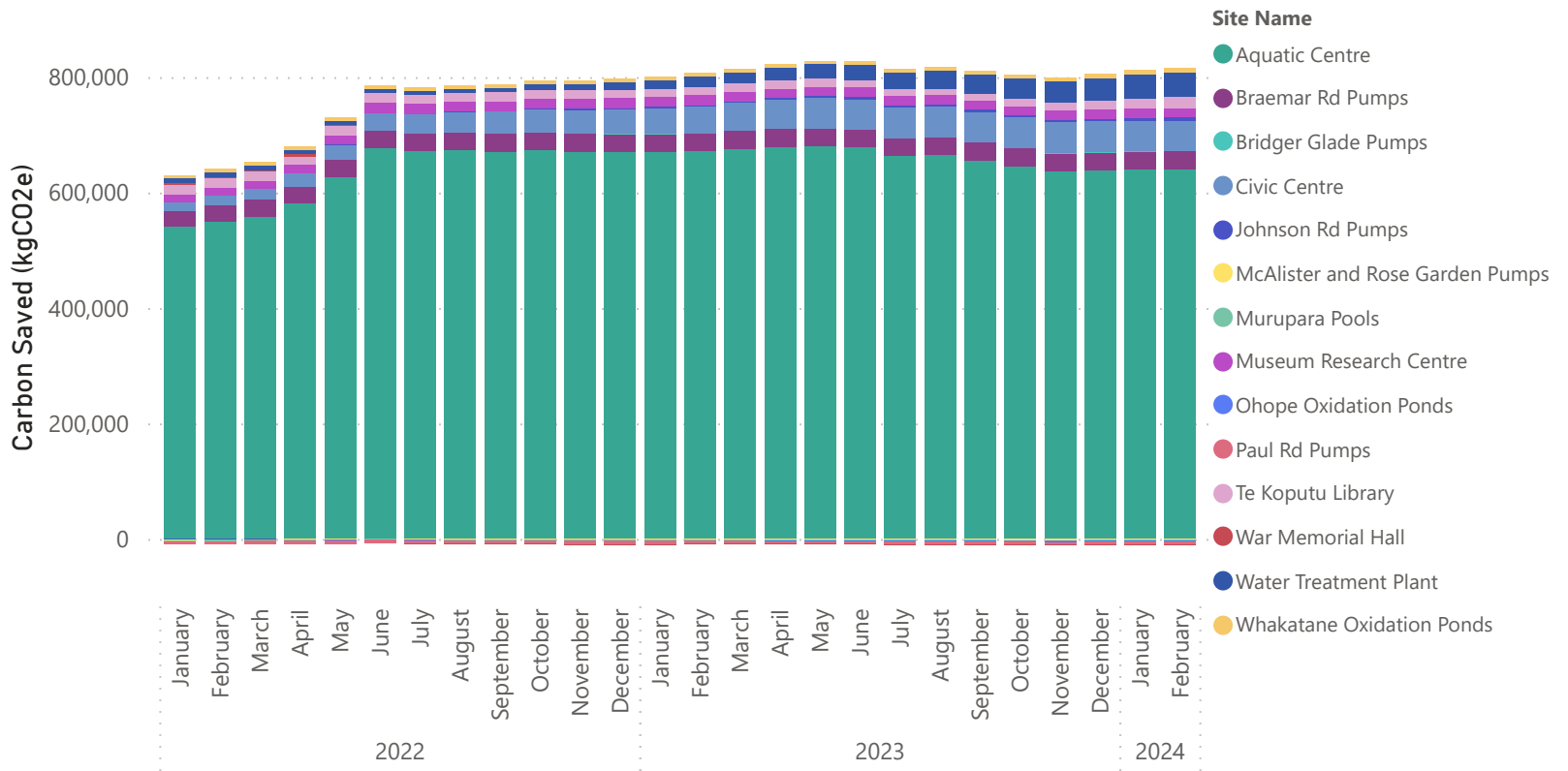
## Summary

Cumulative Energy Cost Savings (\$)



Note, cumulative savings are calculated starting July 2018

Cumulative Carbon Savings (kgCO2e)



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# Whakatane District Council

## Civic Centre

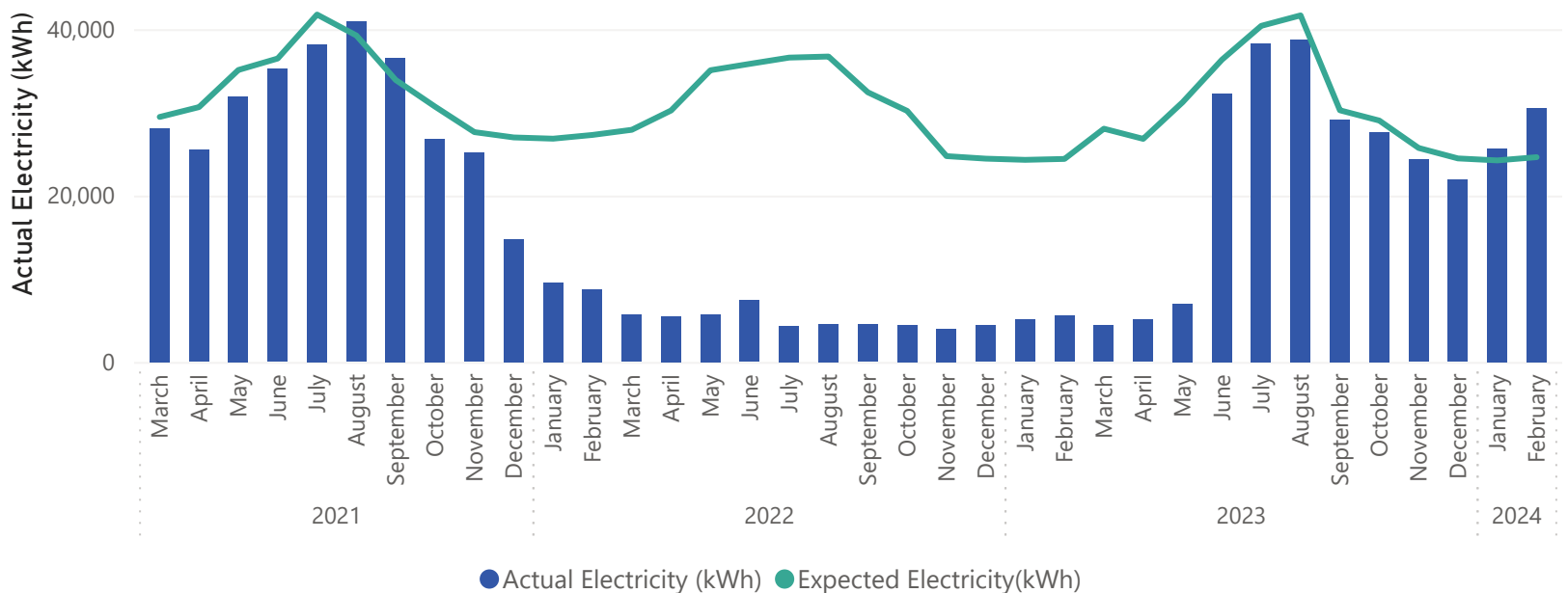
<p><b>-\$921</b> Monthly Energy Cost Savings</p>	<p><b>-5,904</b> Elec. Savings (kWh/mo)</p>	<p><b>-24%</b> Elec. Savings (%)</p>	<p><b>77,817</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-489</b> CO2e Savings (kg/mo)</p>
<p><b>\$14,082</b> R12M Energy Cost Savings</p>				<p><b>6,443</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

It can be seen from the monthly electricity demand charts that demand was as expected for most of January, however, from 25 January the pattern of electricity use changes. This change continues into February. From 25 Jan, electricity use after hours did not decrease as significantly. Before 25 Jan, after hours demand dropped to around 20 kW consistently. After 25 Jan, afterhours demand is more variable and most commonly gets to 30 kW, an increase of 50%. This increase in electricity is the primary reason why electricity use was significantly more than expected this month.

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

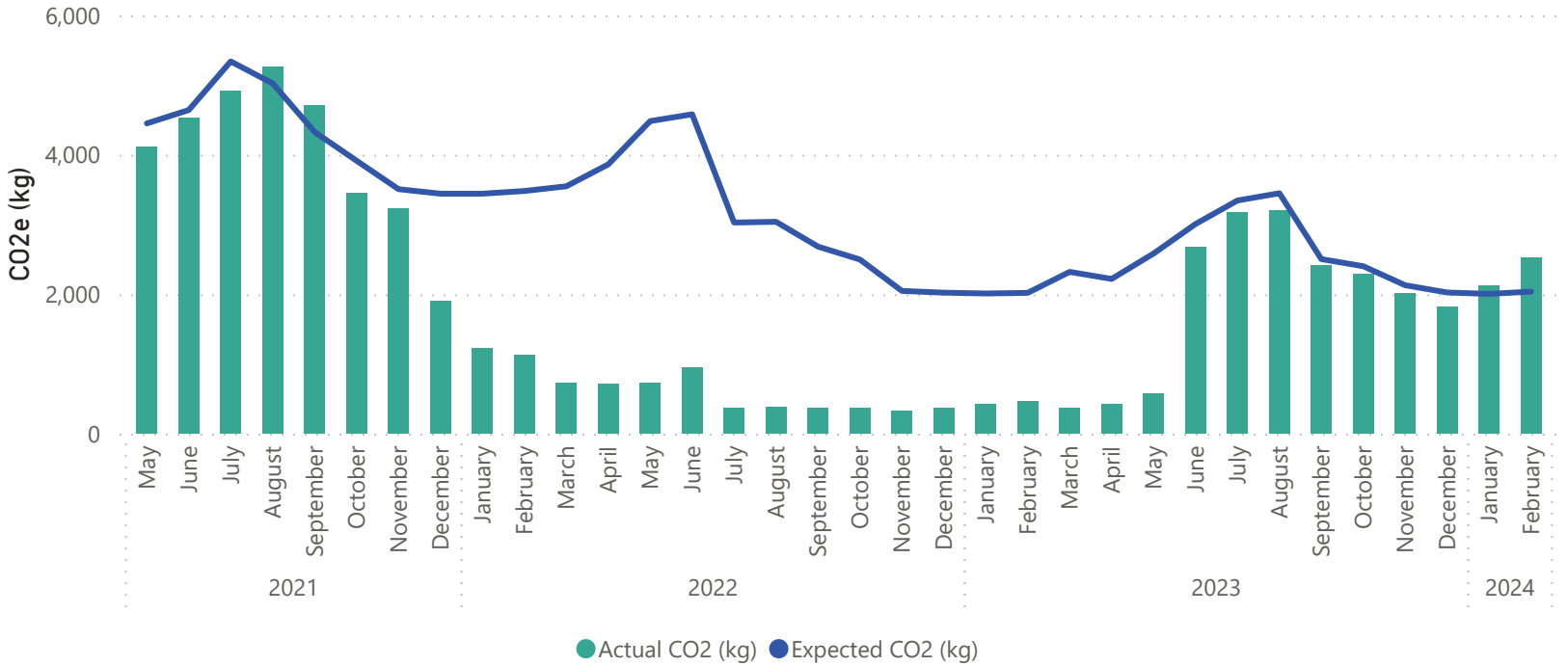
Civic Centre Electricity Use Compared to Baseline (kWh)



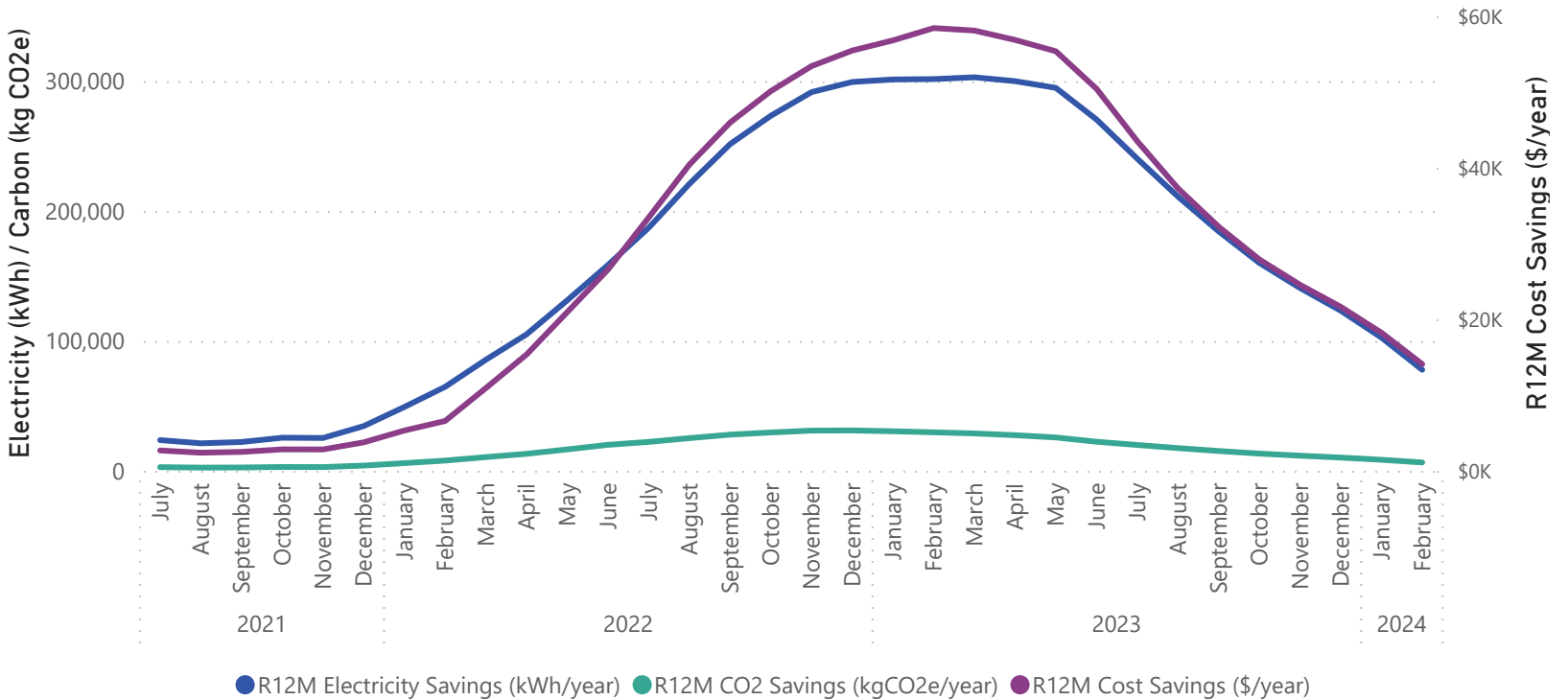
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# Whakatane District Council Civic Centre

Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



Civic Centre Rolling 12 Month Savings

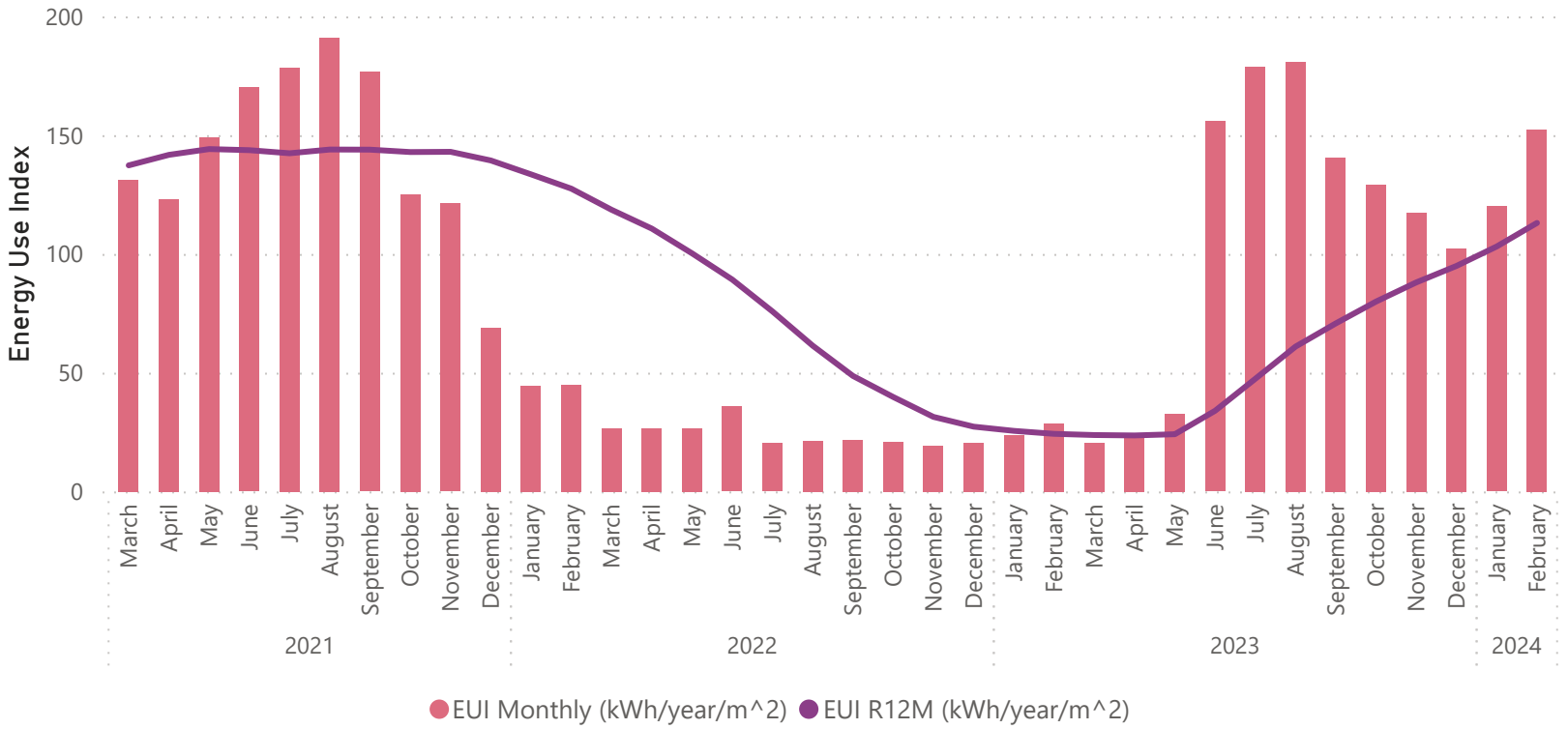


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# Whakatane District Council

## Civic Centre

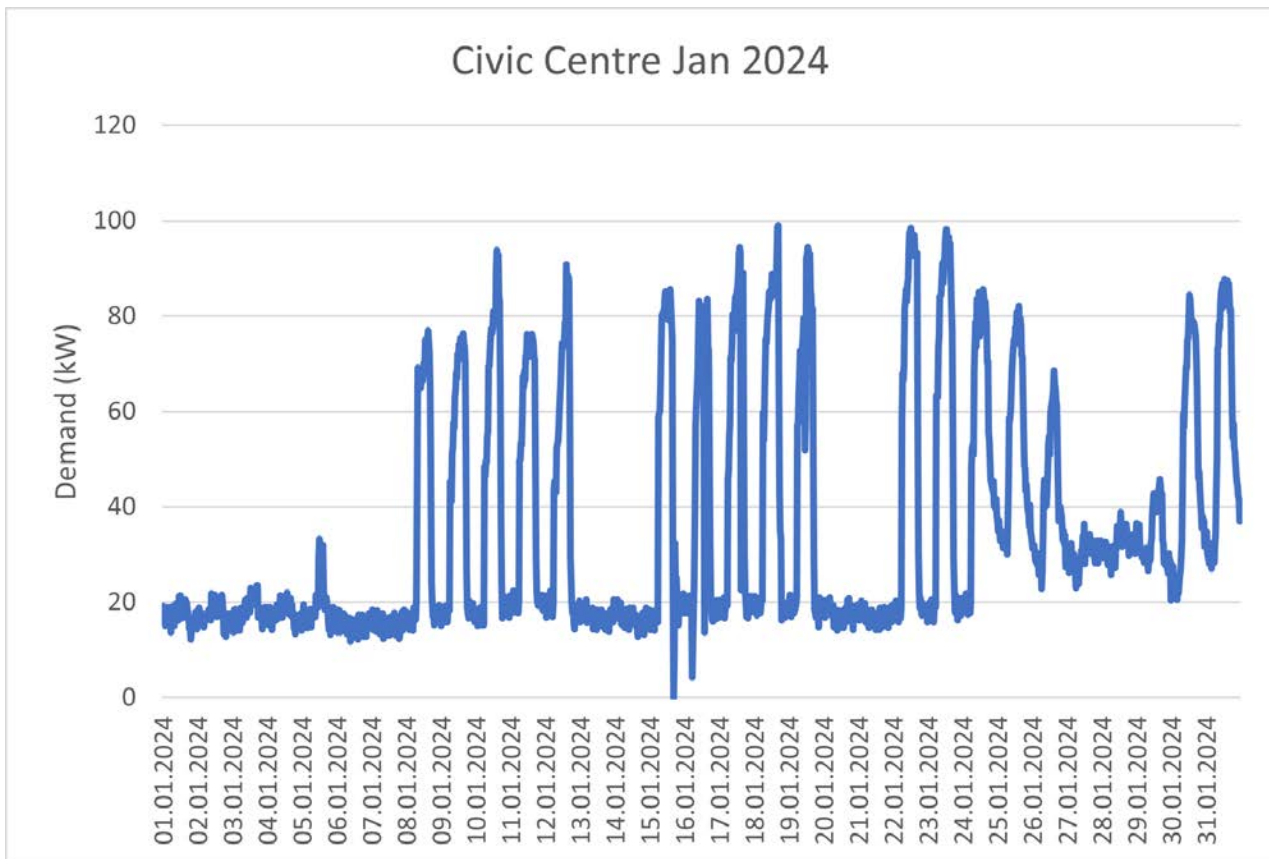
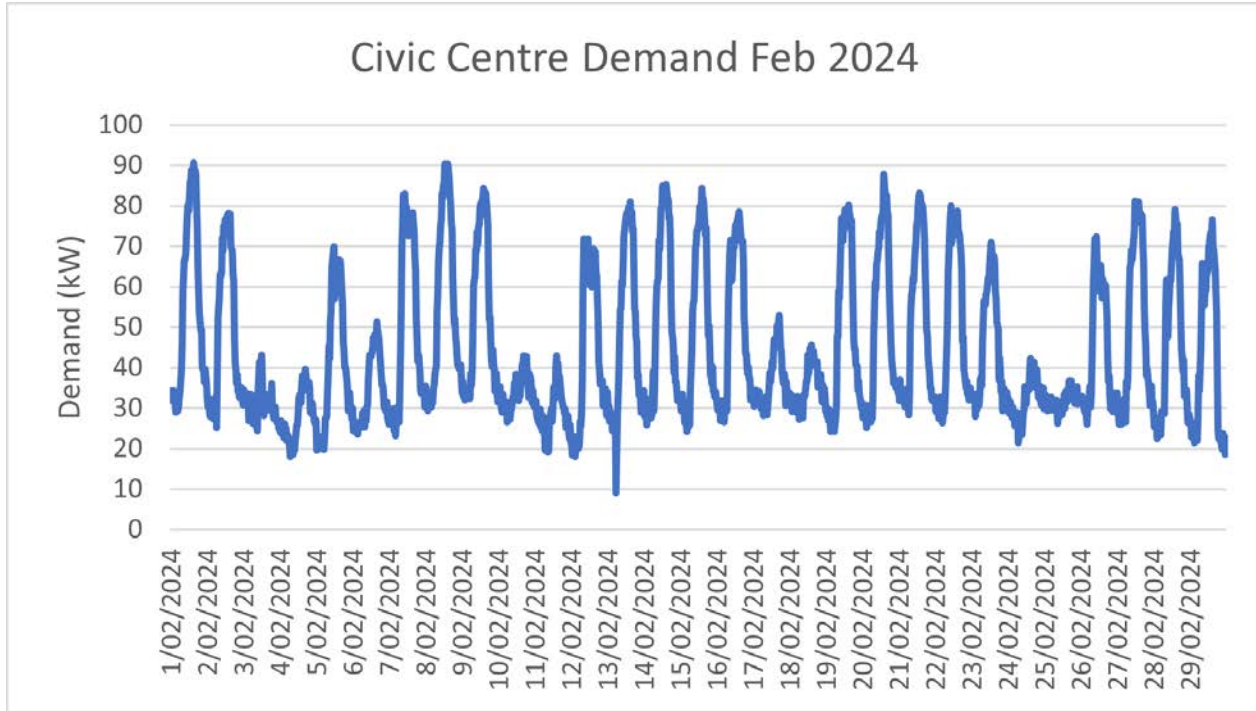
Civic Centre Energy Use Index by Month Compared to Rolling 12-Month Values



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# Whakatane District Council

## Civic Centre



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# Whakatane District Council

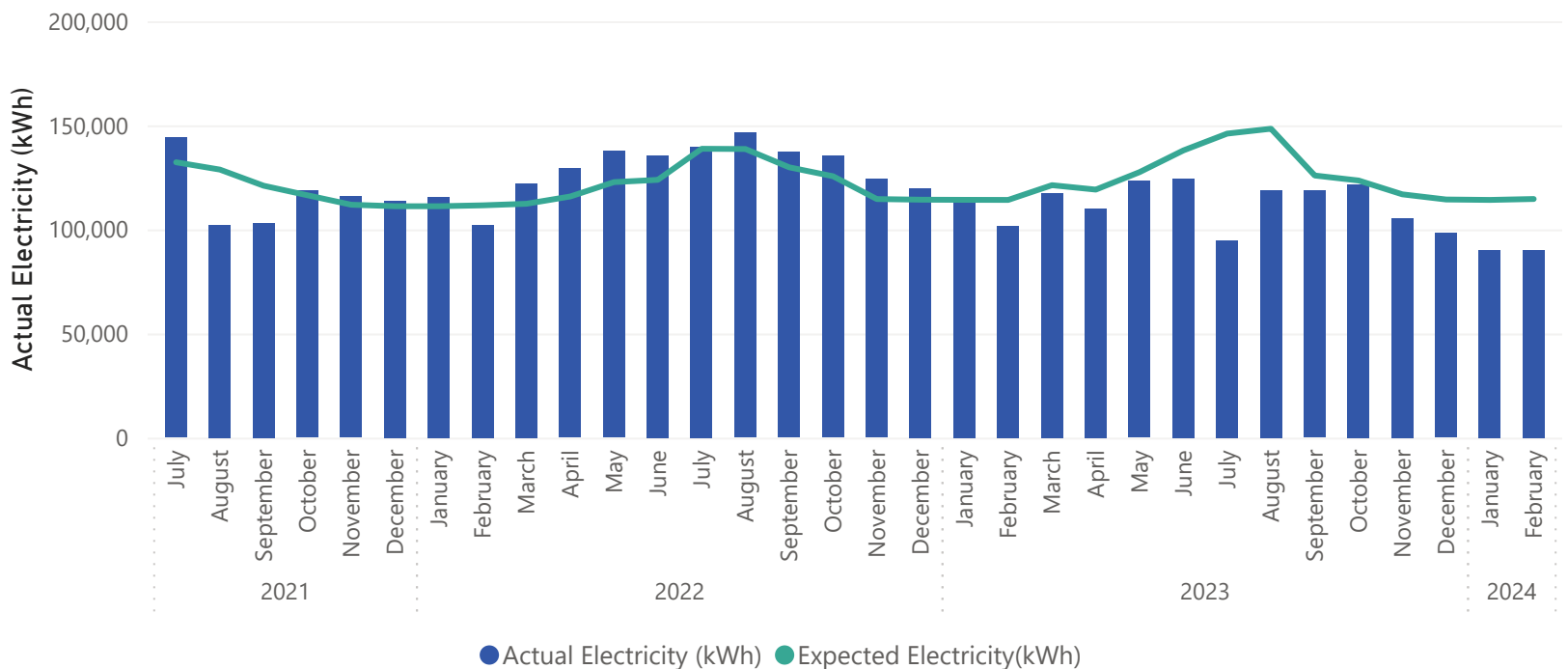
## Aquatic Centre

<p><b>\$3,159</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>24,423</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>21%</b></p> <p>Elec. Savings (%)</p>	<p><b>196,360</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>836</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$15,084</b></p> <p>R12M Energy Cost Savings</p>	<p><b>-5,896</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>-261%</b></p> <p>Gas. Savings (%)</p>	<p><b>-233,163</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>-30,637</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Electricity use was less than baseline in Feb 2024. Gas boilers were used for three days in February due to a fault with the heat pumps. Heat pumps are still providing the majority of heating and over February only 8,100 kWh of gas was used, which is small compared to total site energy use. The EUI for the month is significantly less than average over the past 12 months which aligns with heating from the heat pumps as a primary source, which are a more efficient technology compared to gas boilers.

Aquatic Centre Electricity Use Compared to Baseline (kWh)

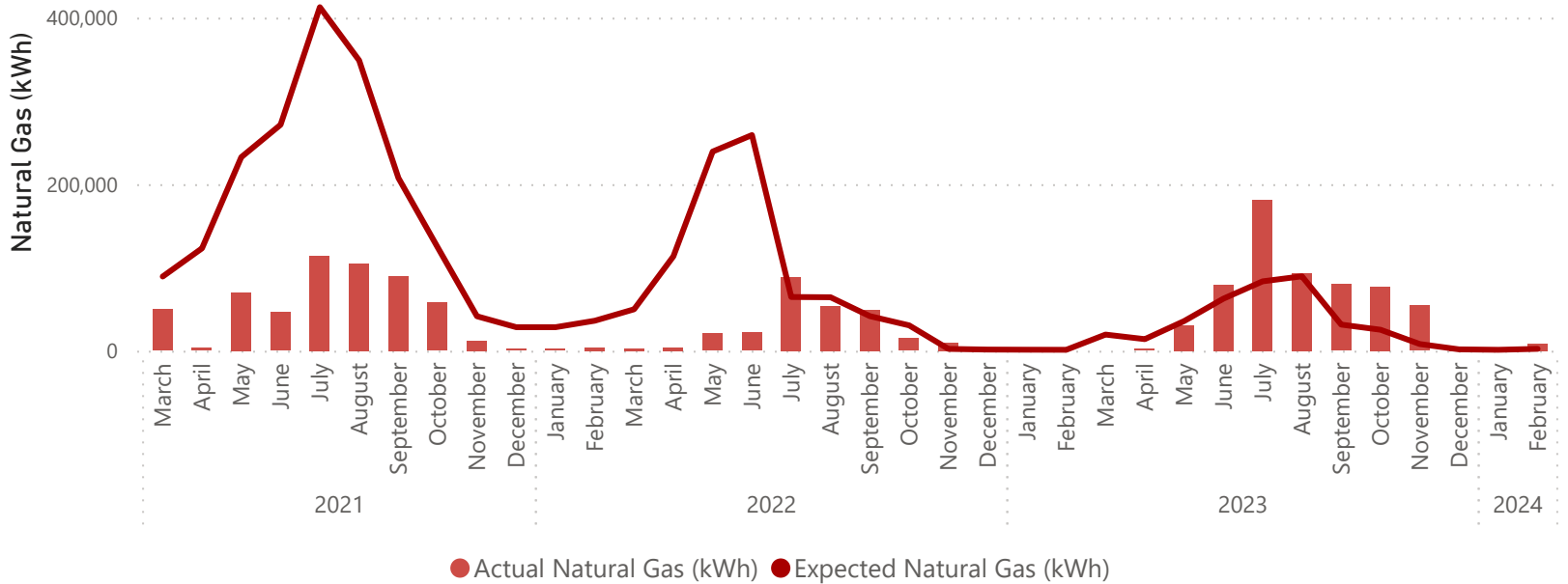


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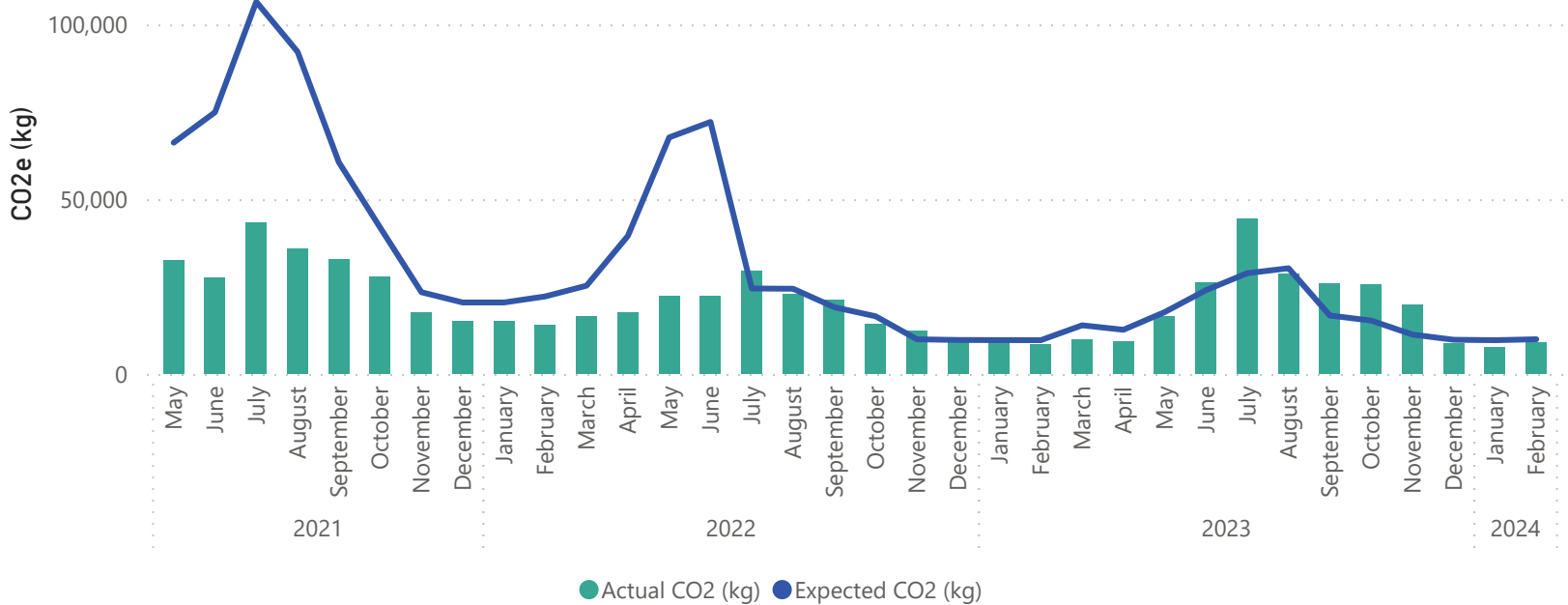
# Whakatane District Council

## Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

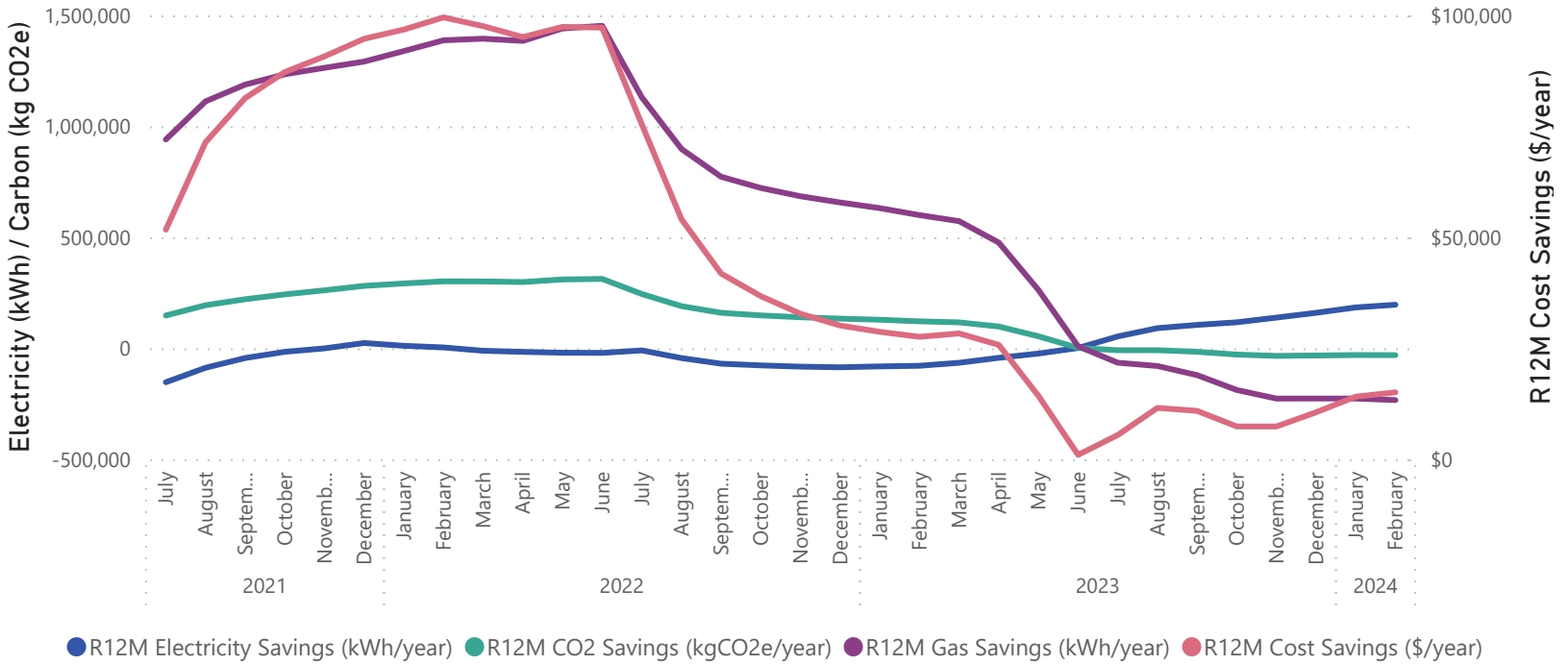


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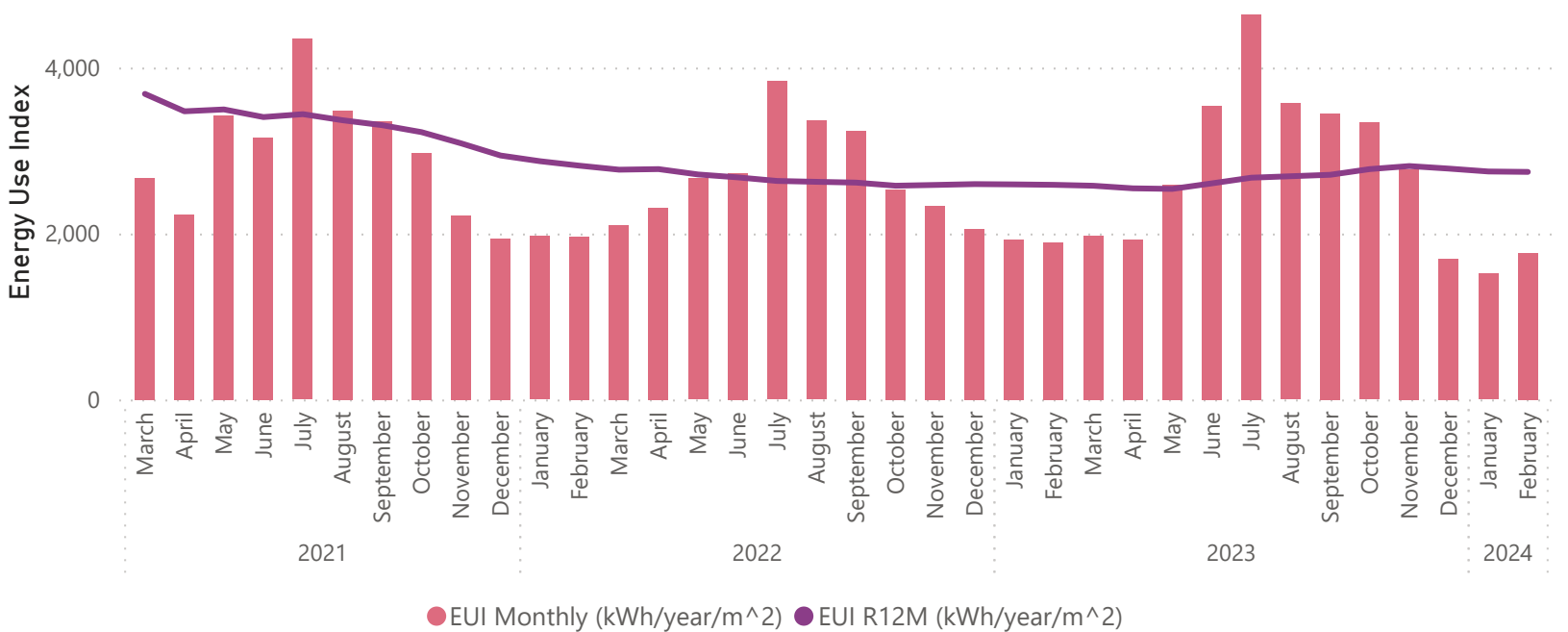
# Whakatane District Council

## 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

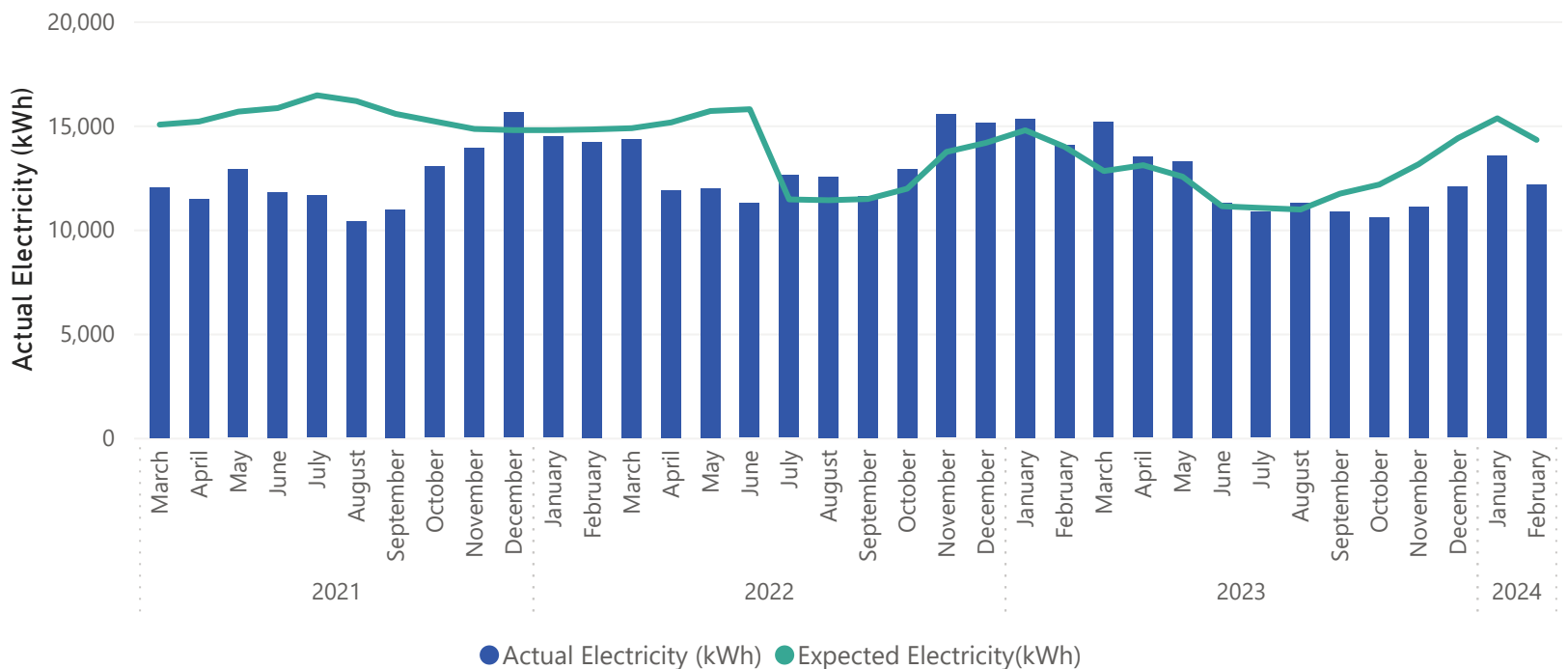
<p><b>\$904</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>2,132</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>15%</b></p> <p>Elec. Savings (%)</p>	<p><b>6,939</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>1,512</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$2,633</b></p> <p>R12M Energy Cost Savings</p>	<p><b>6,640</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>49%</b></p> <p>Gas. Savings (%)</p>	<p><b>18,586</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>4,313</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Electricity and natural gas use were both less than expected for the month, an excellent result and most likely a result of tuning the boiler and chiller. Both natural gas and electricity savings have shown significant savings over the past five months, particularly gas.

The Library's EUI has been relatively consistent from Oct 2023 and lower than average compared to the last 12 months, which is great.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

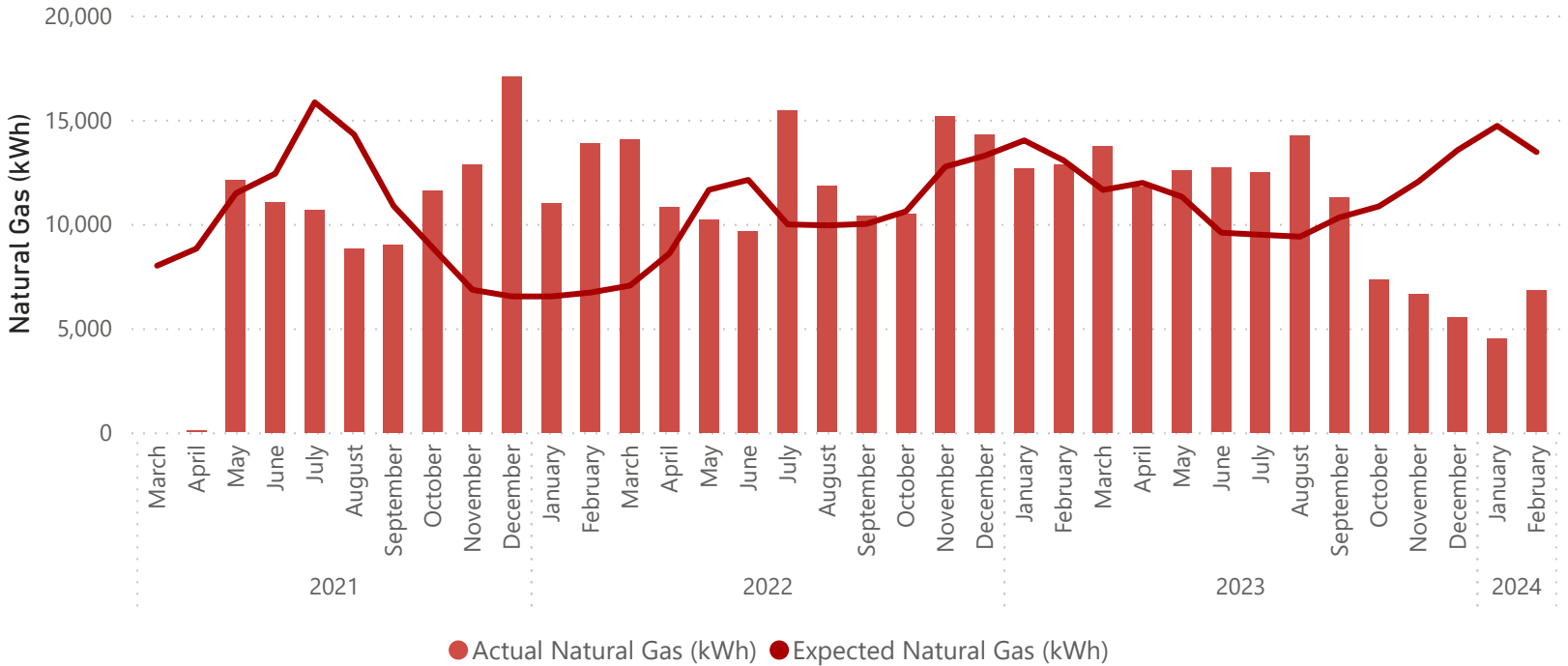


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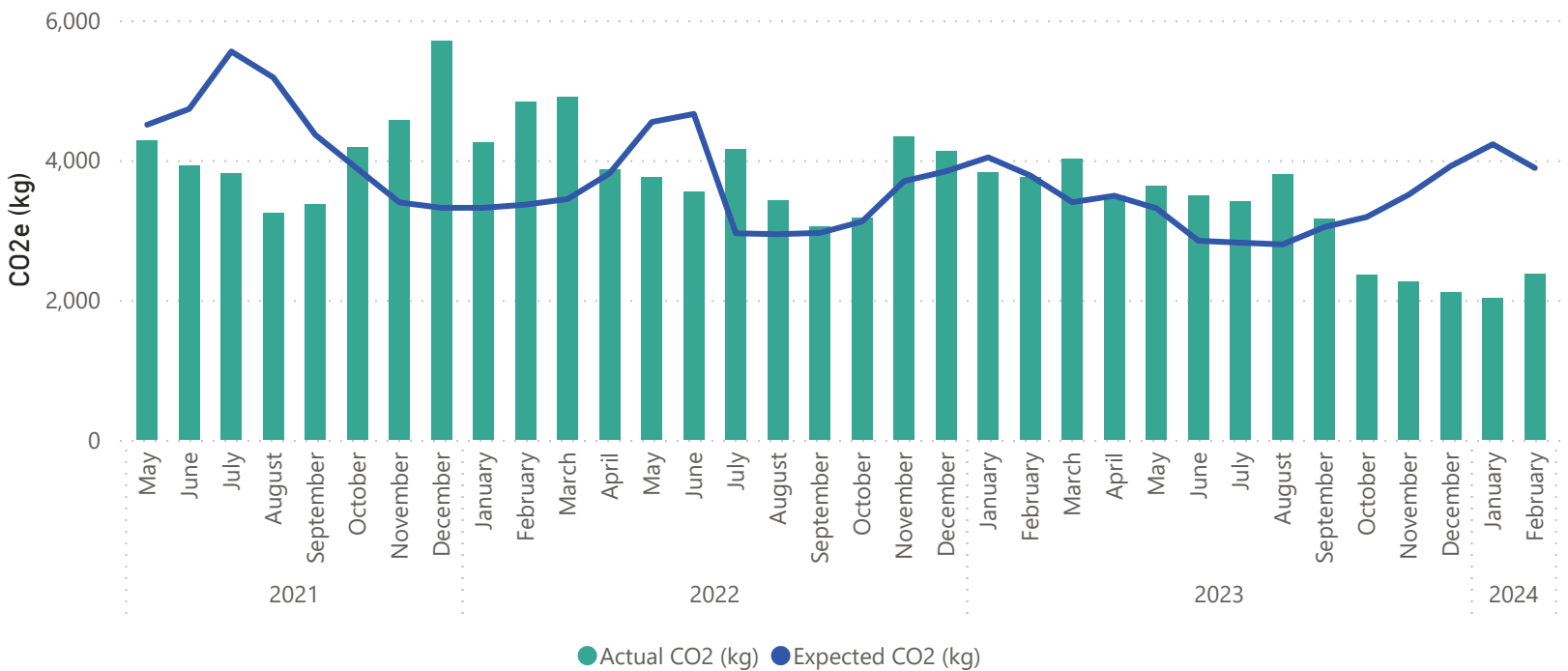
# Whakatane District Council

## Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



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

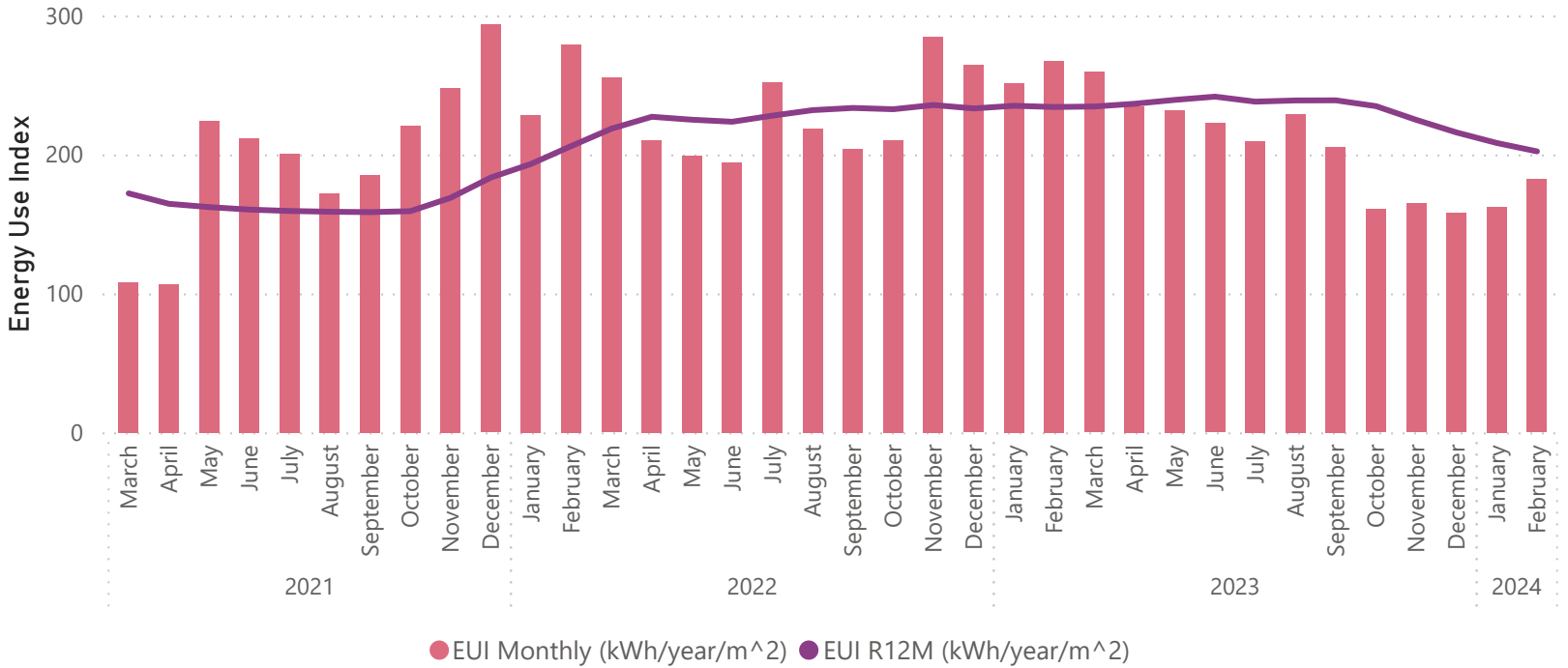


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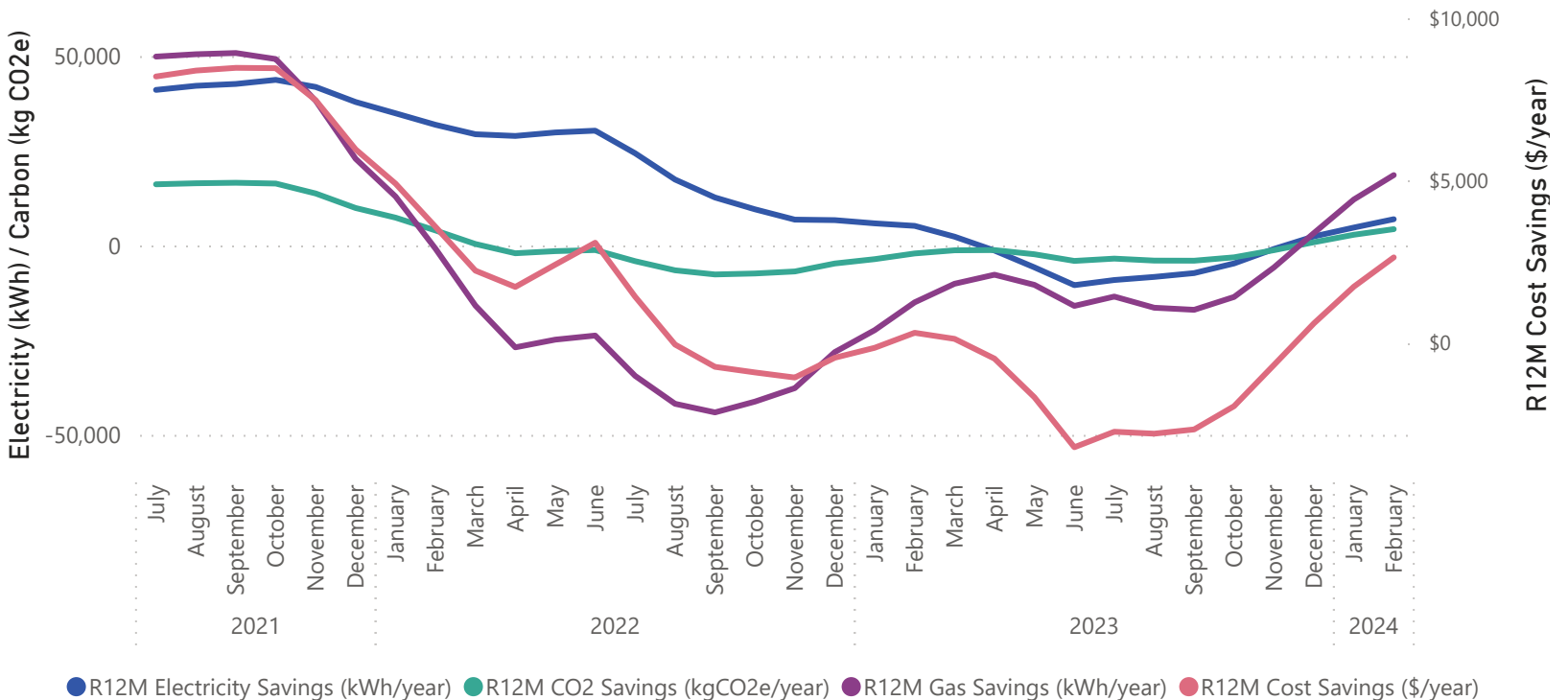
# Whakatane District Council

## Te Koputu Library

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



Te Koputu Library Rolling 12 Month Savings



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# Whakatane District Council

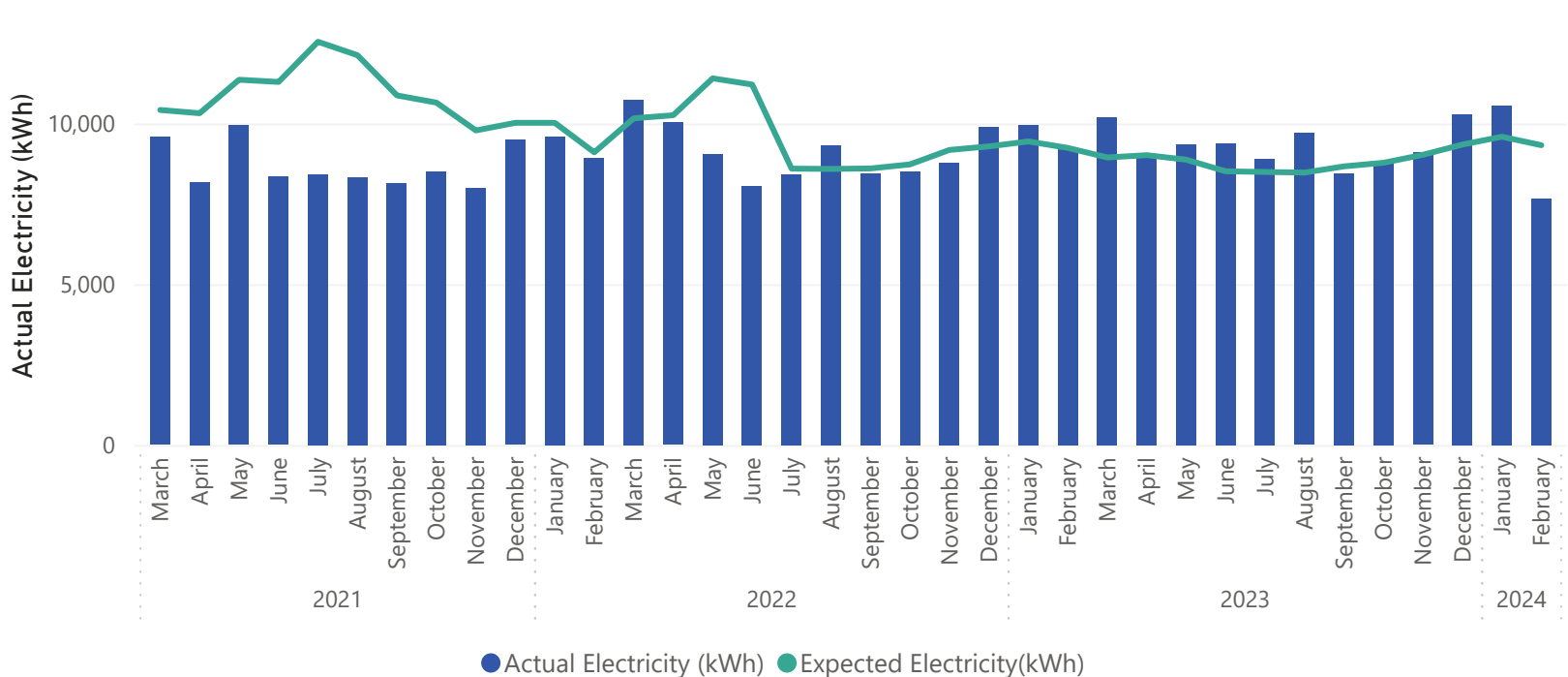
## Museum and Research Centre

<p><b>\$310</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>1,668</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>18%</b></p> <p>Elec. Savings (%)</p>	<p><b>-4,321</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>252</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>-\$1,223</b></p> <p>R12M Energy Cost Savings</p>	<p><b>567</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>20%</b></p> <p>Gas. Savings (%)</p>	<p><b>-5,055</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>-1,374</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Natural gas and electricity were significantly less than expected, which is an excellent result which has not been seen for several years. Operation of the AHUs has been changed to combat high humidity, AHU fans speeds have been slowed down which has had a positive impact on energy consumption. Slower fan speeds can improve effectiveness of dehumidification by allowing air to cool down to lower temperatures, releasing more humidity. lower fan speeds also reduce electricity consumption as less power is required.

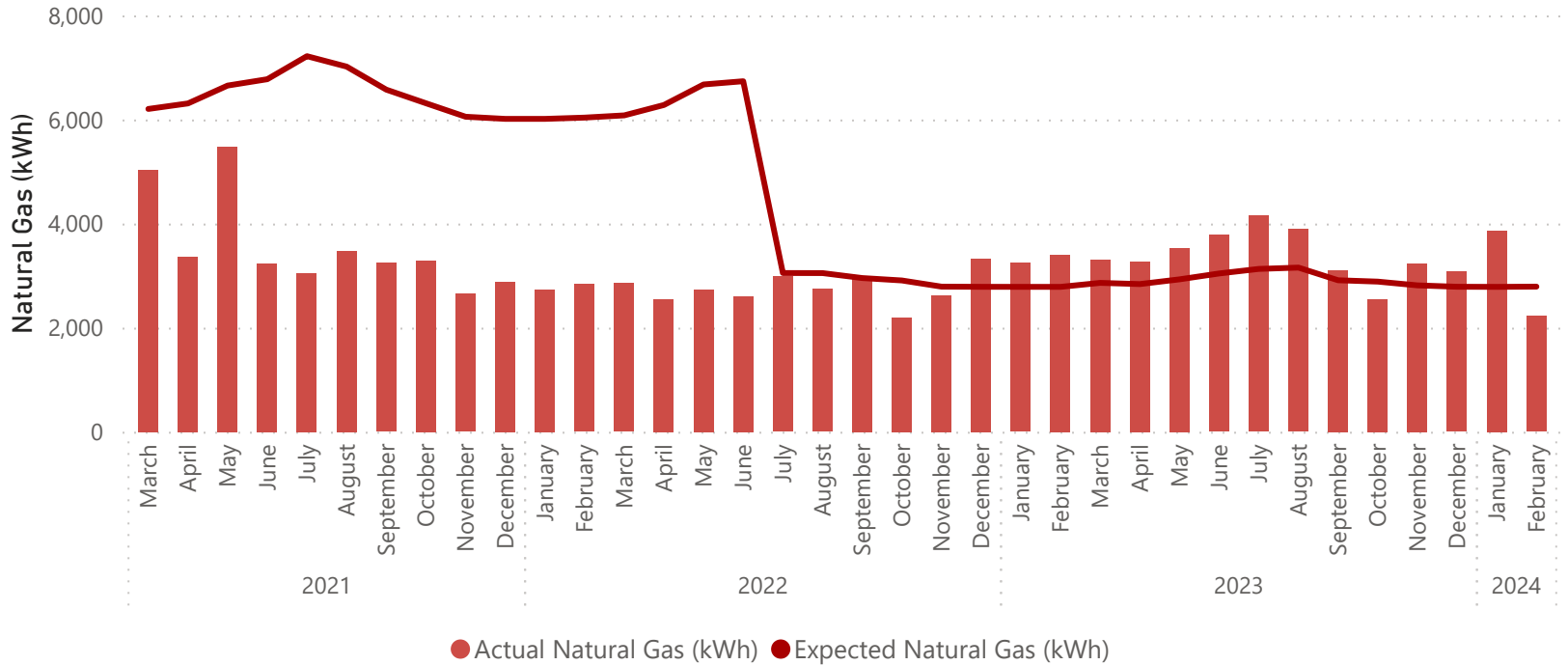
Museum Research Centre Electricity Use Compared to Baseline (kWh)



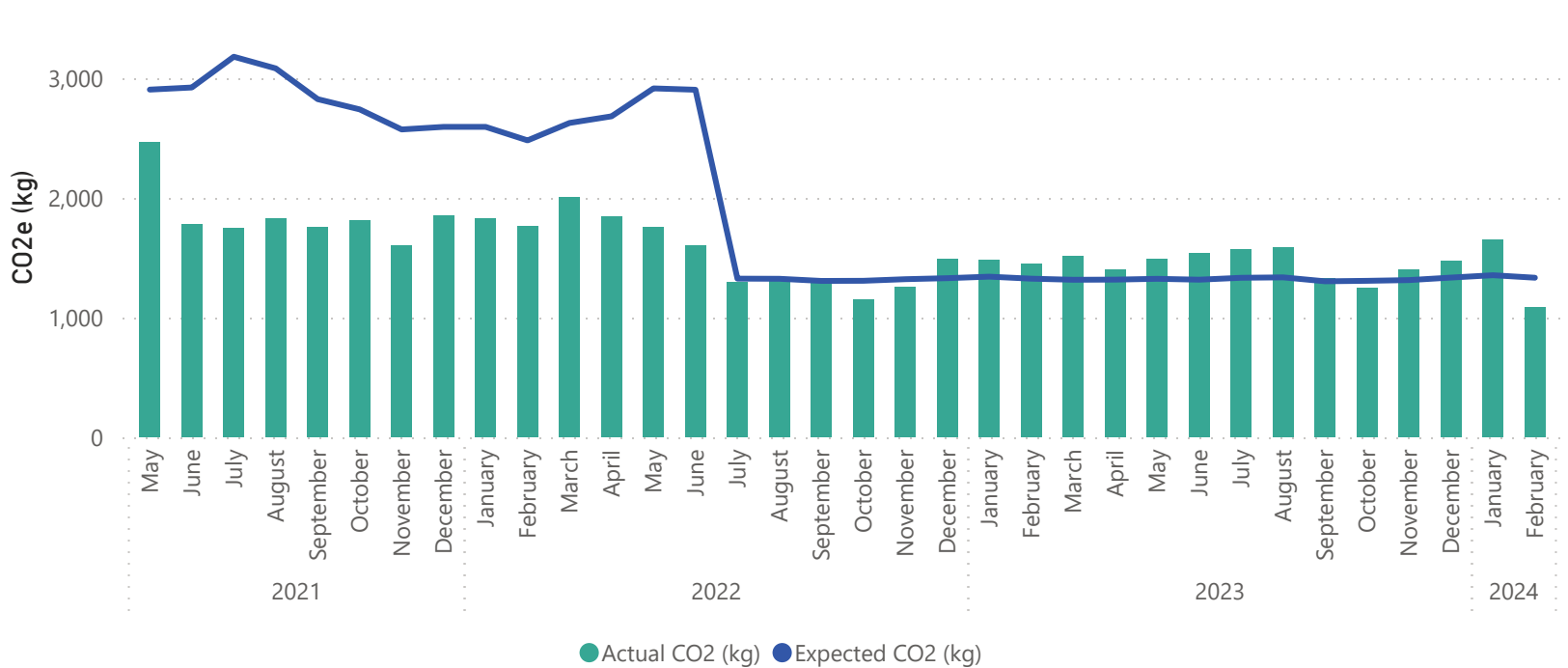
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# Whakatane District Council Museum and Research Centre

Museum Research Centre Natural Gas Compared to Baseline (kWh)



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

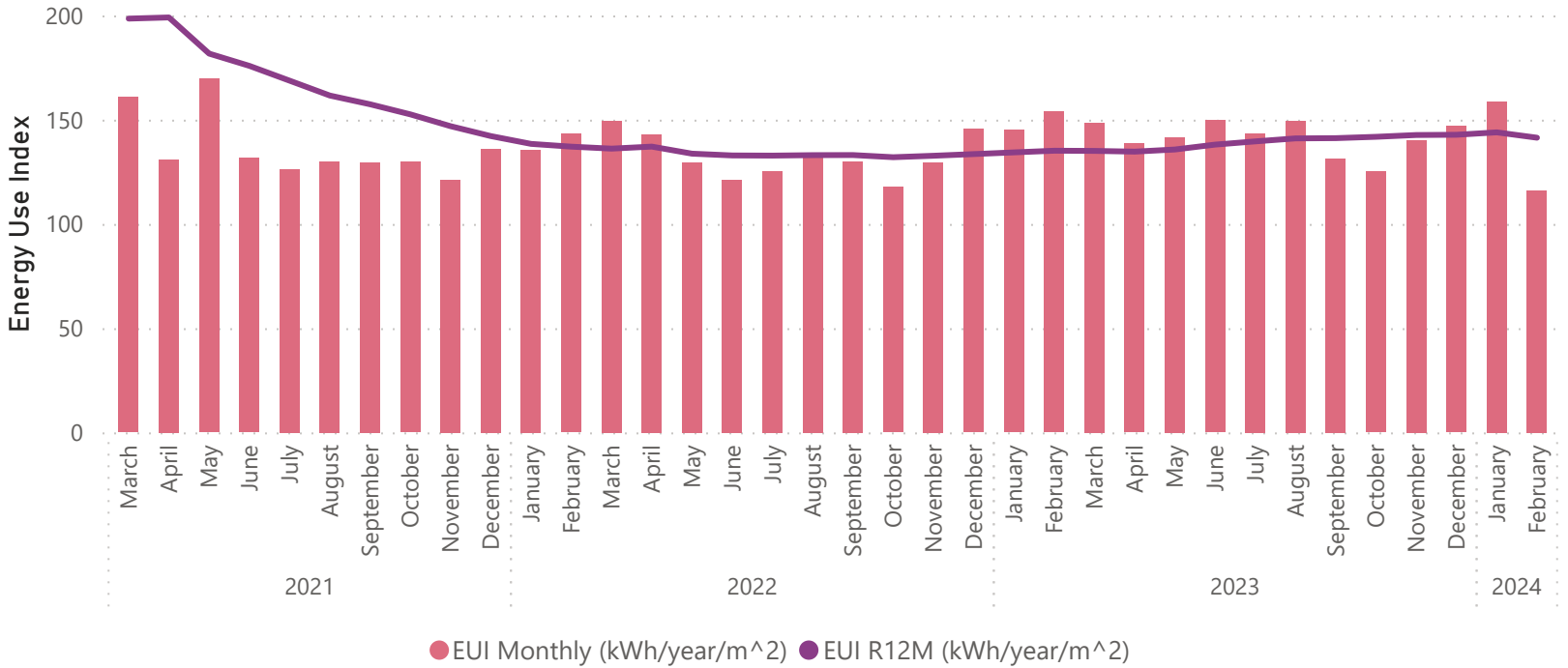


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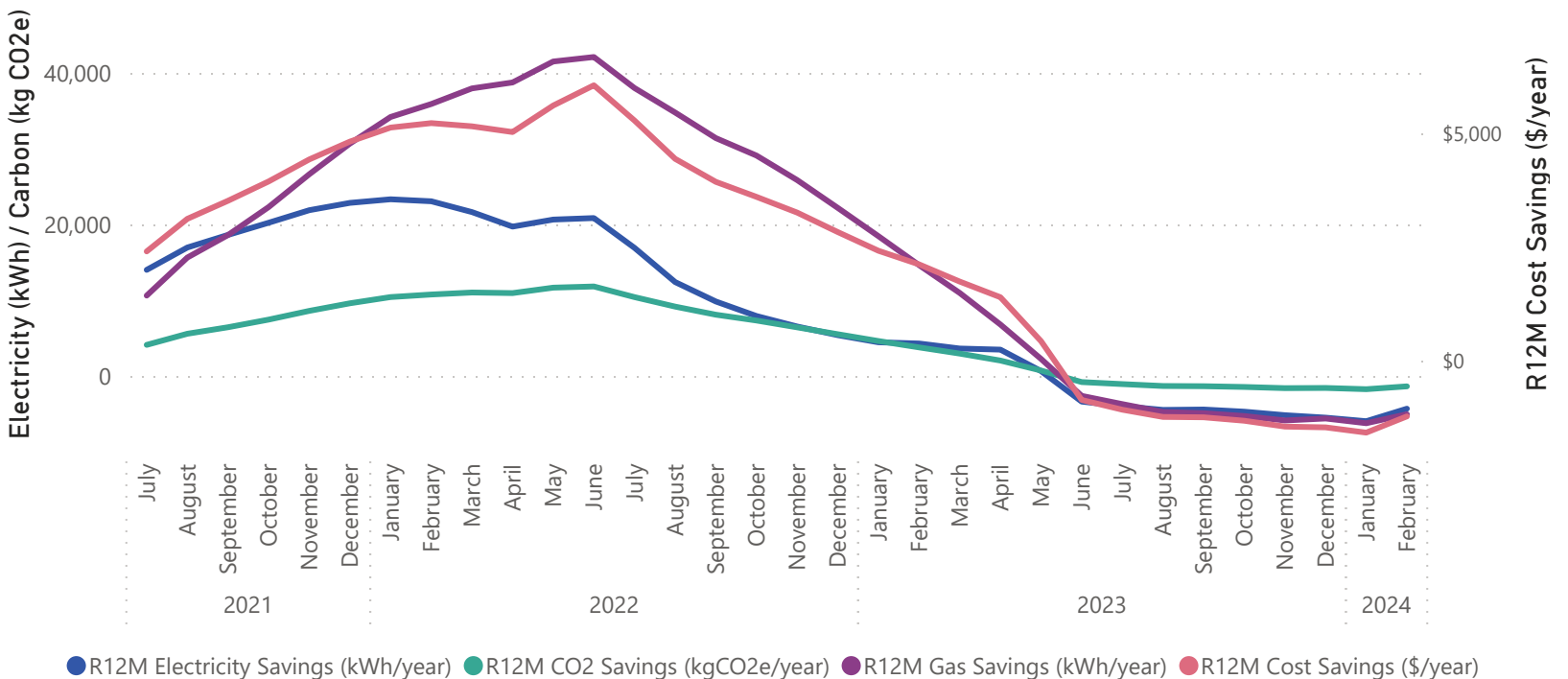


# Whakatane District Council Museum and Research Centre

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



Museum Research Centre Rolling 12 Month Savings



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# Whakatane District Council

## War Memorial Hall

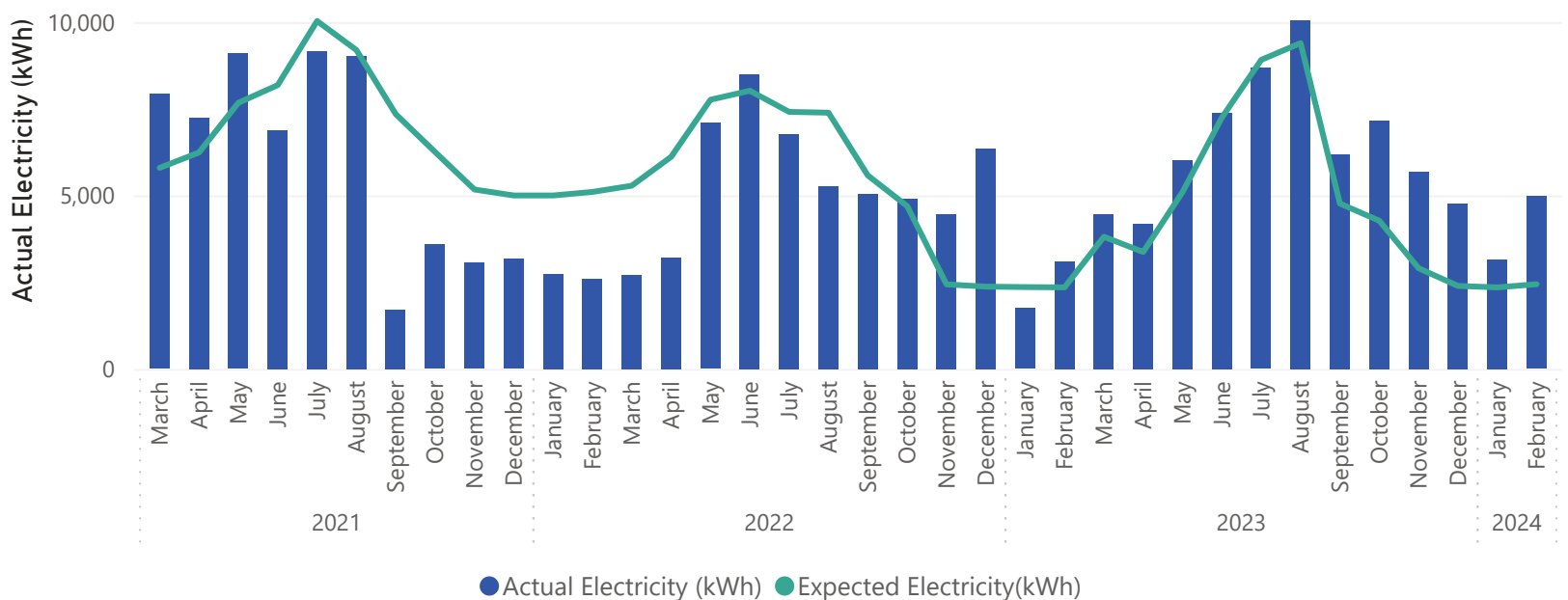
<p><b>-\$313</b> Monthly Energy Cost Savings</p>	<p><b>-2,531</b> Elec. Savings (kWh/mo)</p>	<p><b>-104%</b> Elec. Savings (%)</p>	<p><b>-15,751</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-12</b> CO2e Savings (kg/mo)</p>
<p><b>-\$2,345</b> R12M Energy Cost Savings</p>	<p><b>981</b> Gas. Savings (kWh/mo)</p>	<p><b>52%</b> Gas. Savings (%)</p>	<p><b>2,121</b> R12M Gas Savings (kWh/yr)</p>	<p><b>-878</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

The War Memorial Hall used more electricity than expected. Eleven of the past 12 months have used more electricity than expected. This may be due to higher occupancy rates than usual. February used twice as much electricity as expected, however this may be partially due to when the meter was read.

The hall has used less natural gas than expected since October 2023. Natural gas use has decreased in recent months as ambient temperature is higher and less heating is required.

War Memorial Hall Electricity Use Compared to Baseline (kWh)

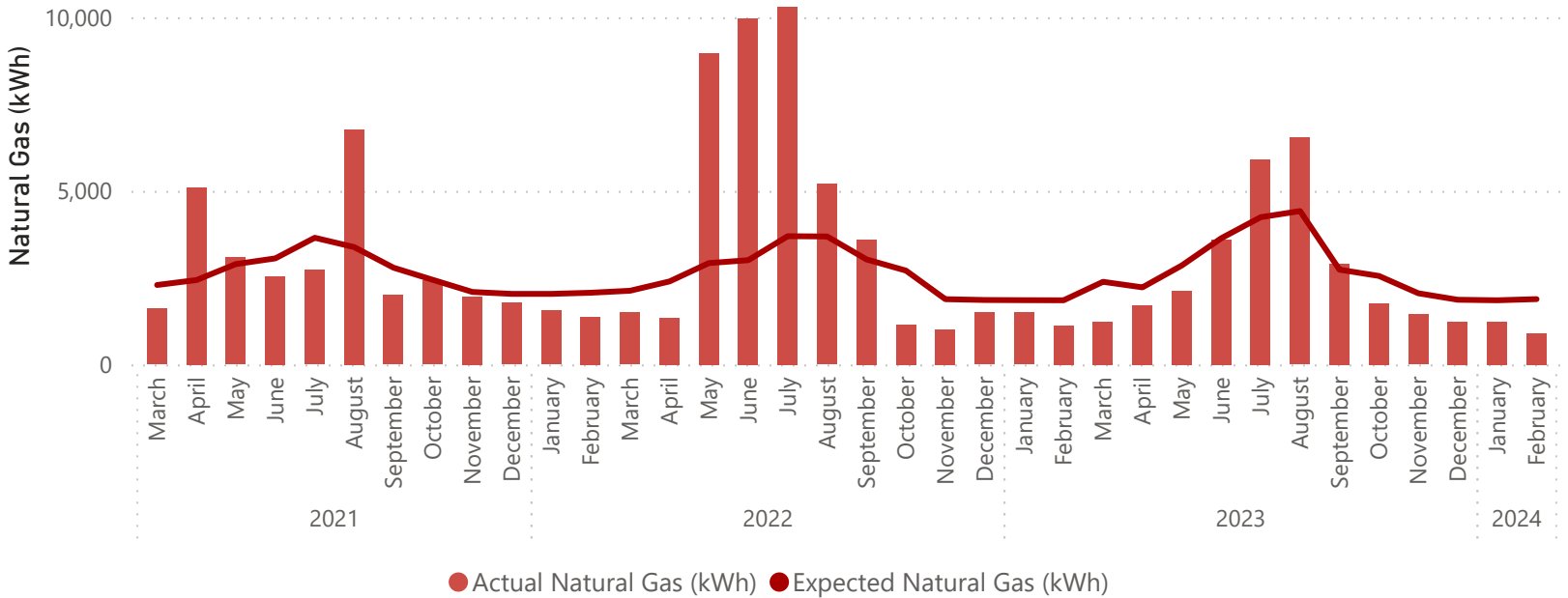


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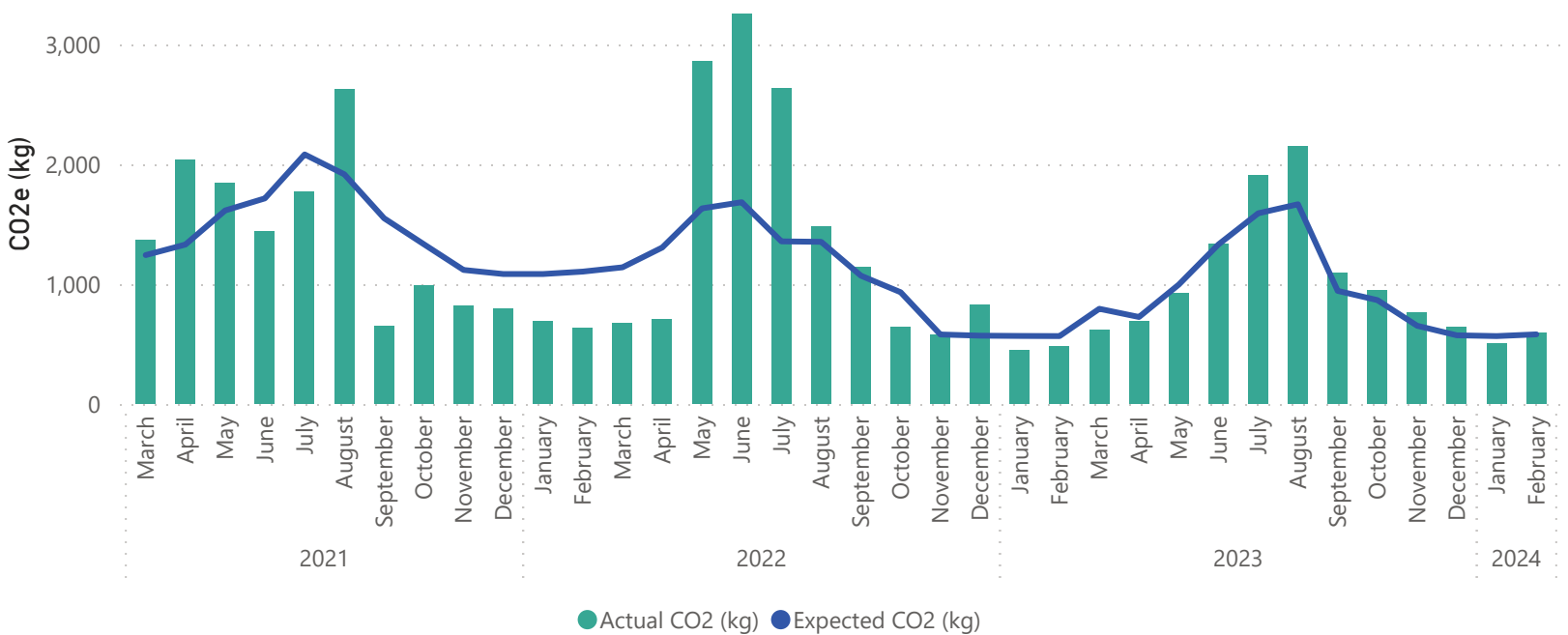
# Whakatane District Council

## War Memorial Hall

War Memorial Hall Natural Gas Compared to Baseline (kWh)



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

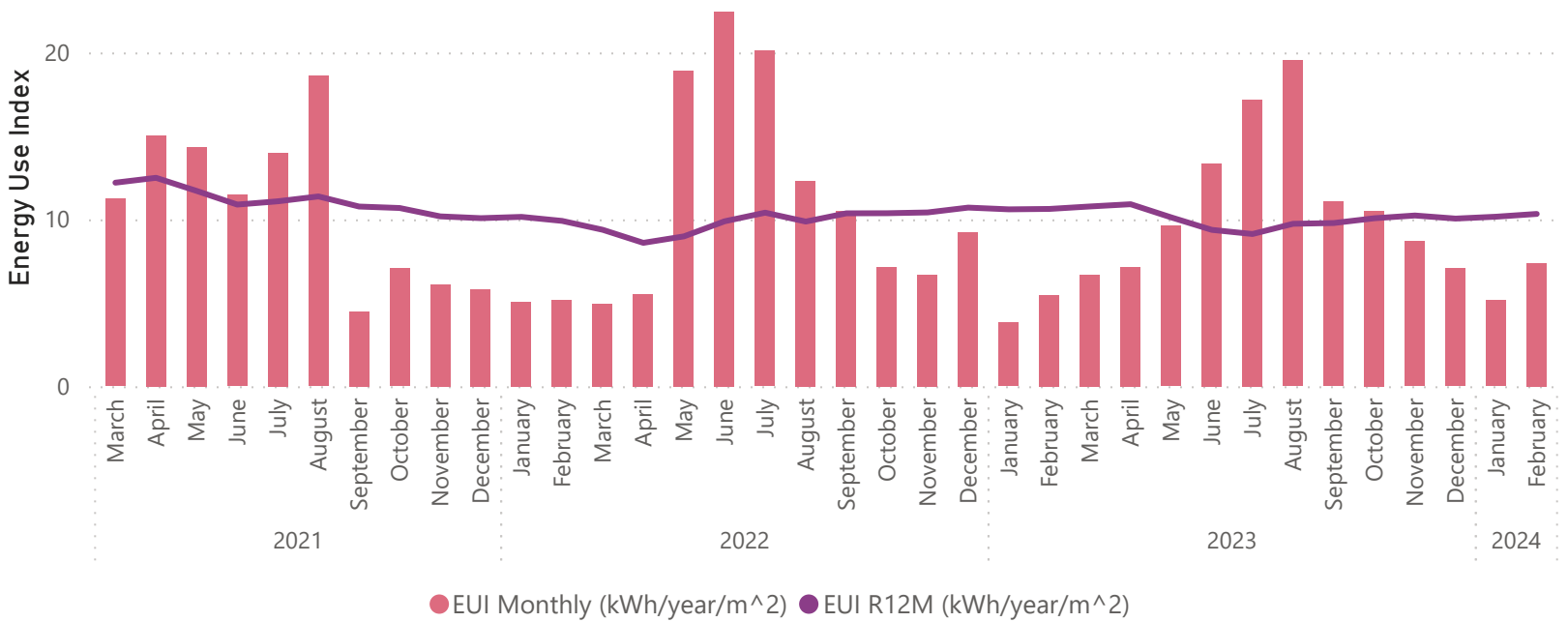


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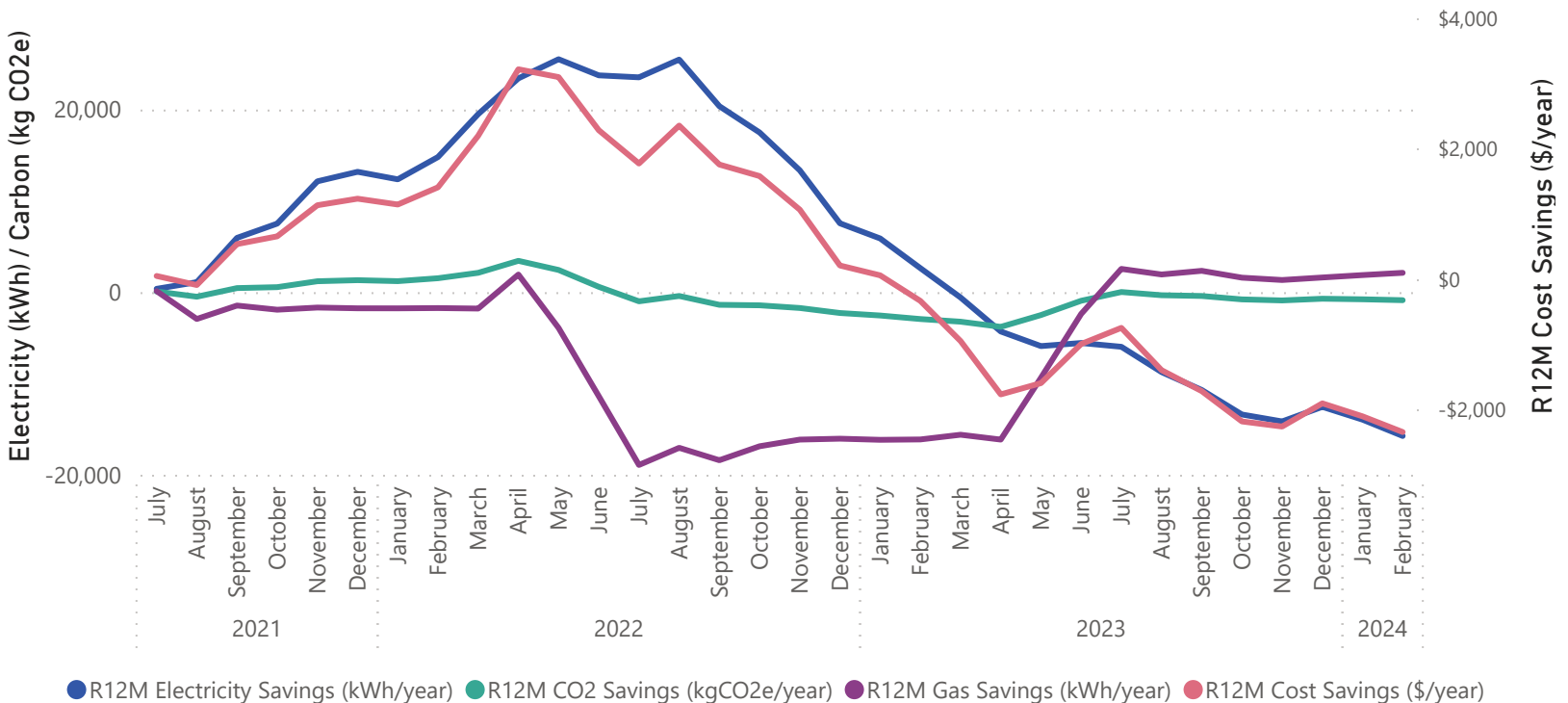
# Whakatane District Council

## 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

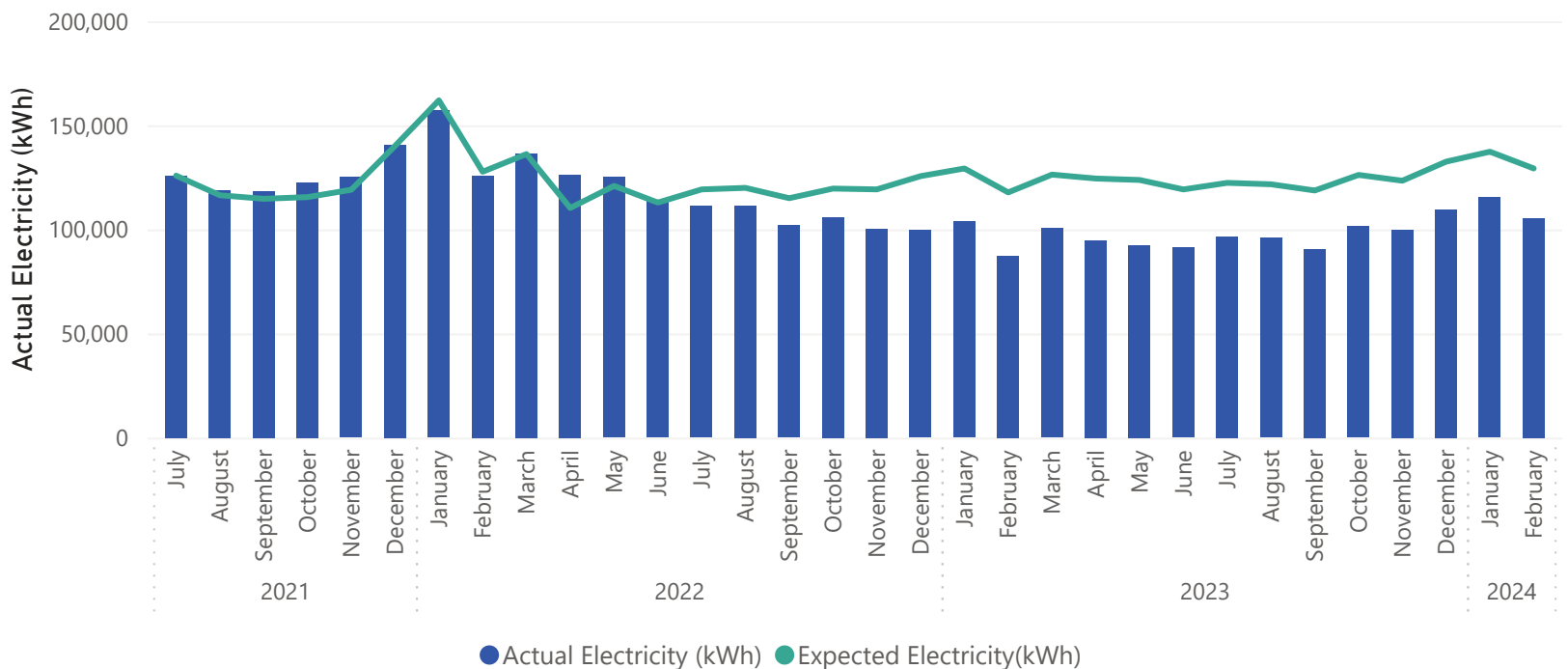
## Water Treatment Plant

<p><b>\$3,585</b> Monthly Energy Cost Savings</p>	<p><b>23,982</b> Elec. Savings (kWh/mo)</p>	<p><b>19%</b> Elec. Savings (%)</p>	<p><b>311,613</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>1,986</b> CO2e Savings (kg/mo)</p>
<p><b>\$52,765</b> R12M Energy Cost Savings</p>			<p><b>25,802</b> R12M CO2e Savings (kg/yr)</p>	

### Comments:

Another month of savings has been achieved at the WTP. Consistent savings between 15-25% have been observed since November 2022.

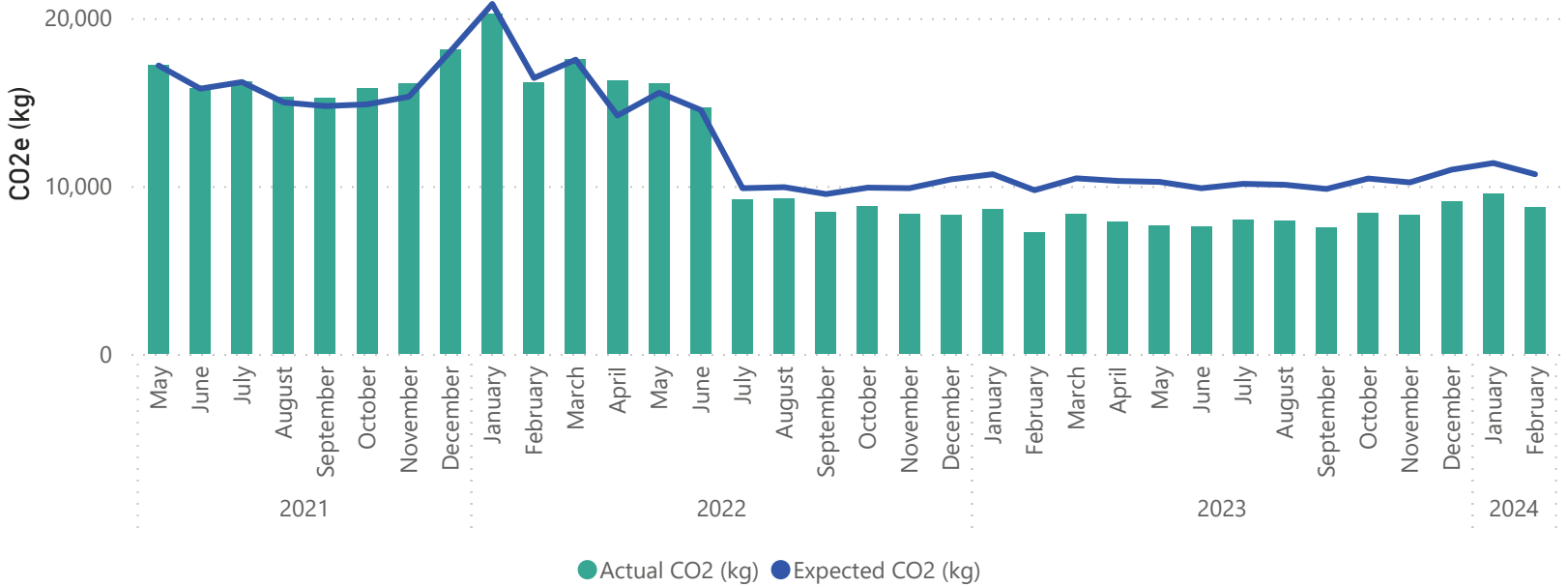
Water Treatment Plant Electricity Use Compared to Baseline (kWh)



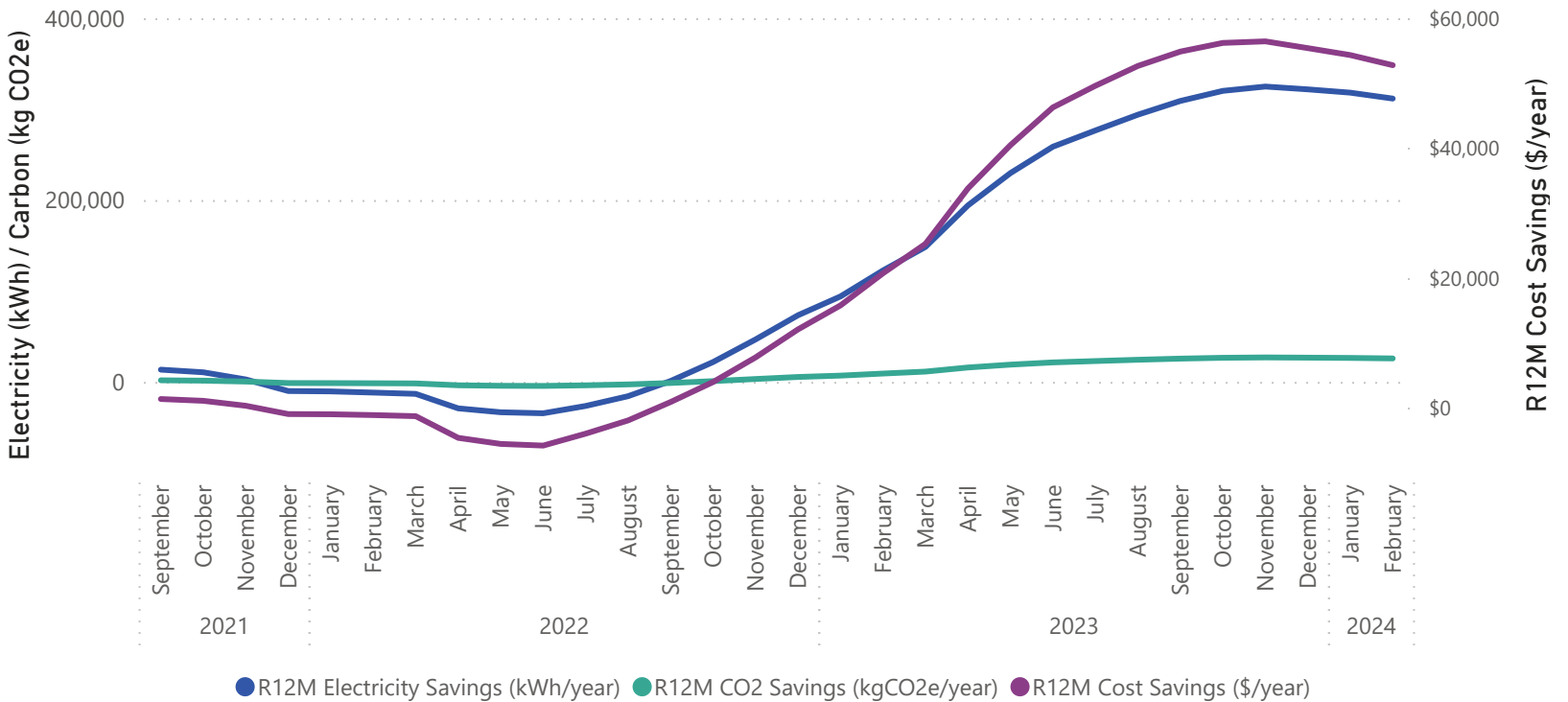
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# Whakatane District Council Water Treatment Plant

Water Treatment Plant Carbon Emissions Compared to Baseline (kg CO<sub>2</sub>e)



Water Treatment Plant Rolling 12 Month Savings

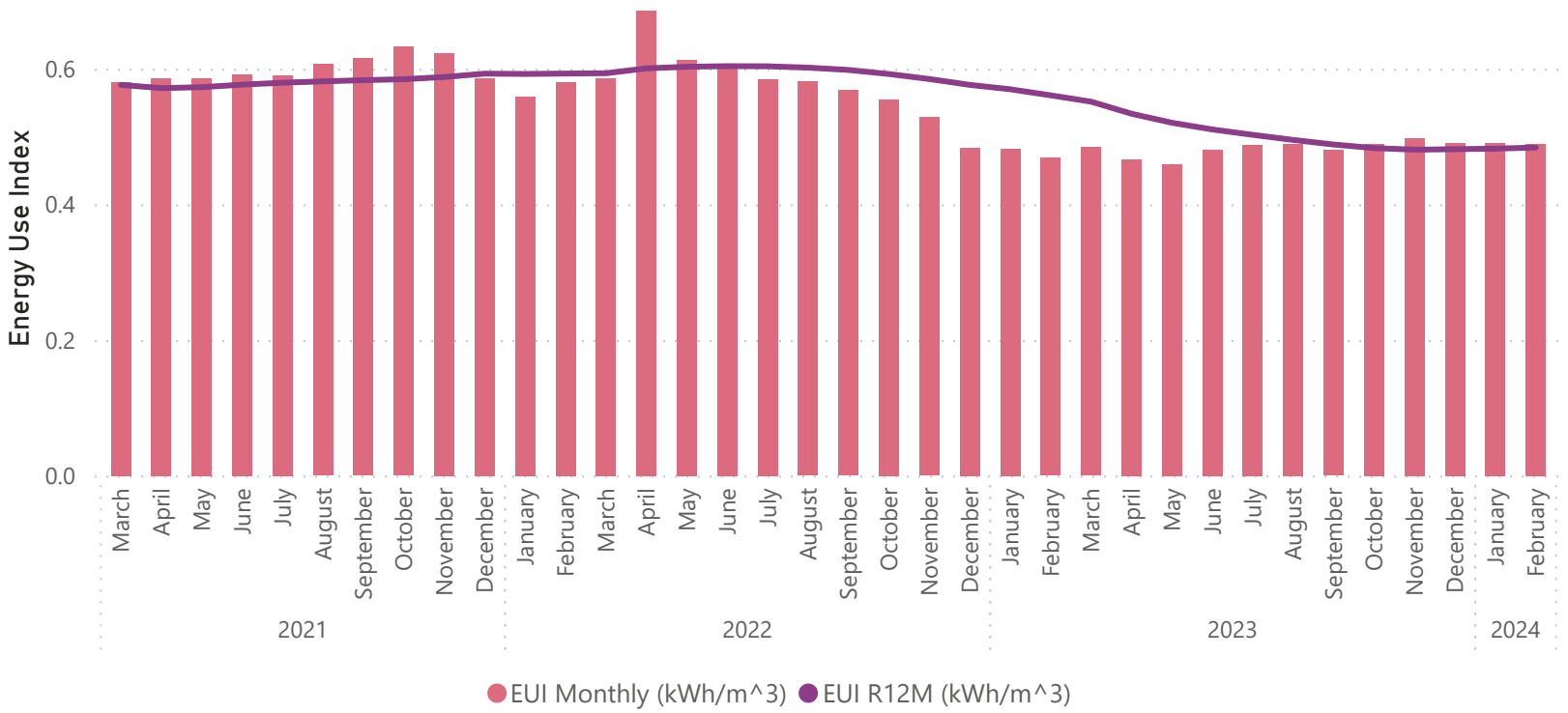


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# Whakatane District Council

## 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

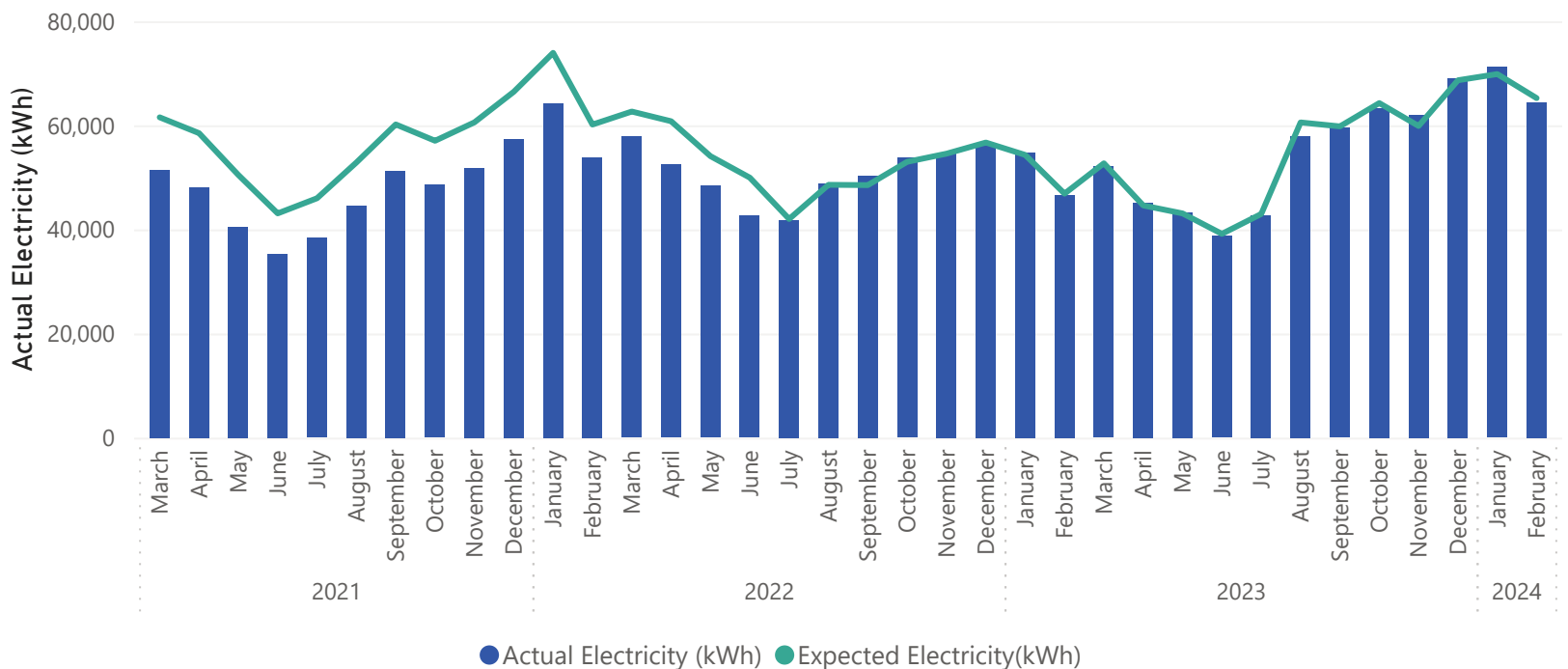
<p><b>\$119</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>784</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>1%</b></p> <p>Elec. Savings (%)</p>	<p><b>1,326</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>65</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$363</b></p> <p>R12M Energy Cost Savings</p>				<p><b>110</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Braemar Rd pump station has been re-baselined in January 2024, the baseline period is Jul 2023 to Jan 2024 and has an R2 value of 0.99. New baseline is required as work completed to meet water quality requirements 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 around 24% more electricity on average. New tags will be added to SCADA in future which will capture water metering.

Braemar Rd Pumps Electricity Use Compared to Baseline (kWh)



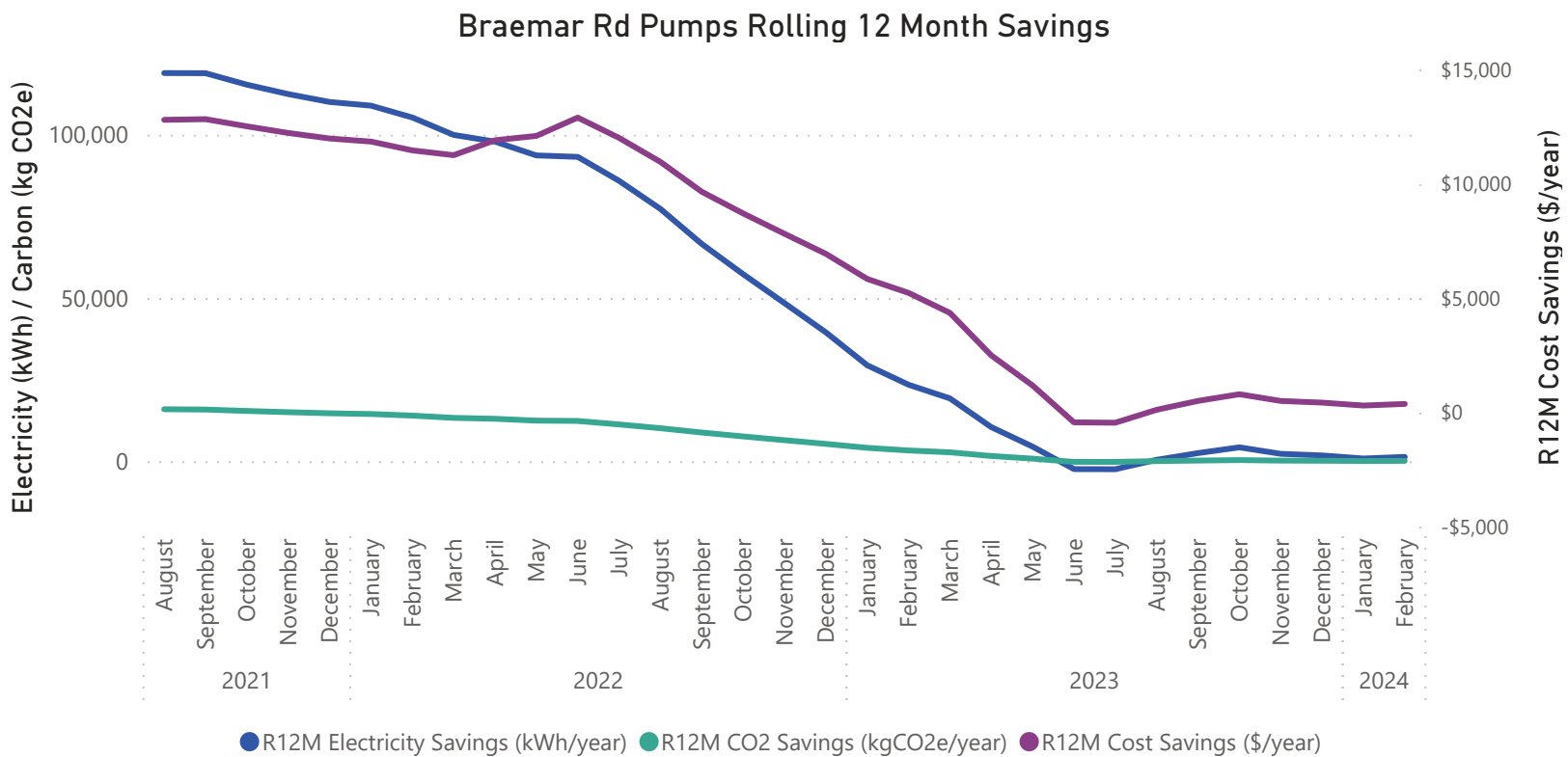
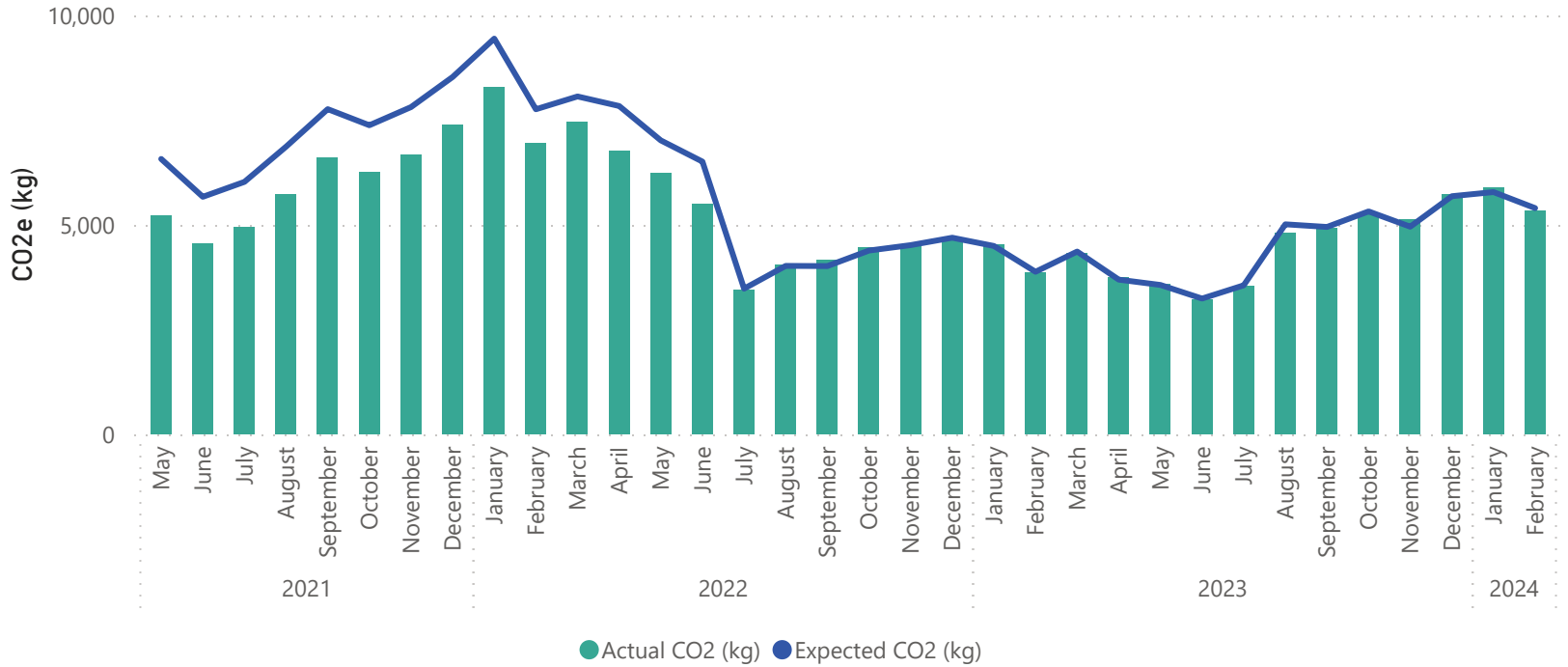
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# Whakatane District Council

## Braemar Road Pump Station

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

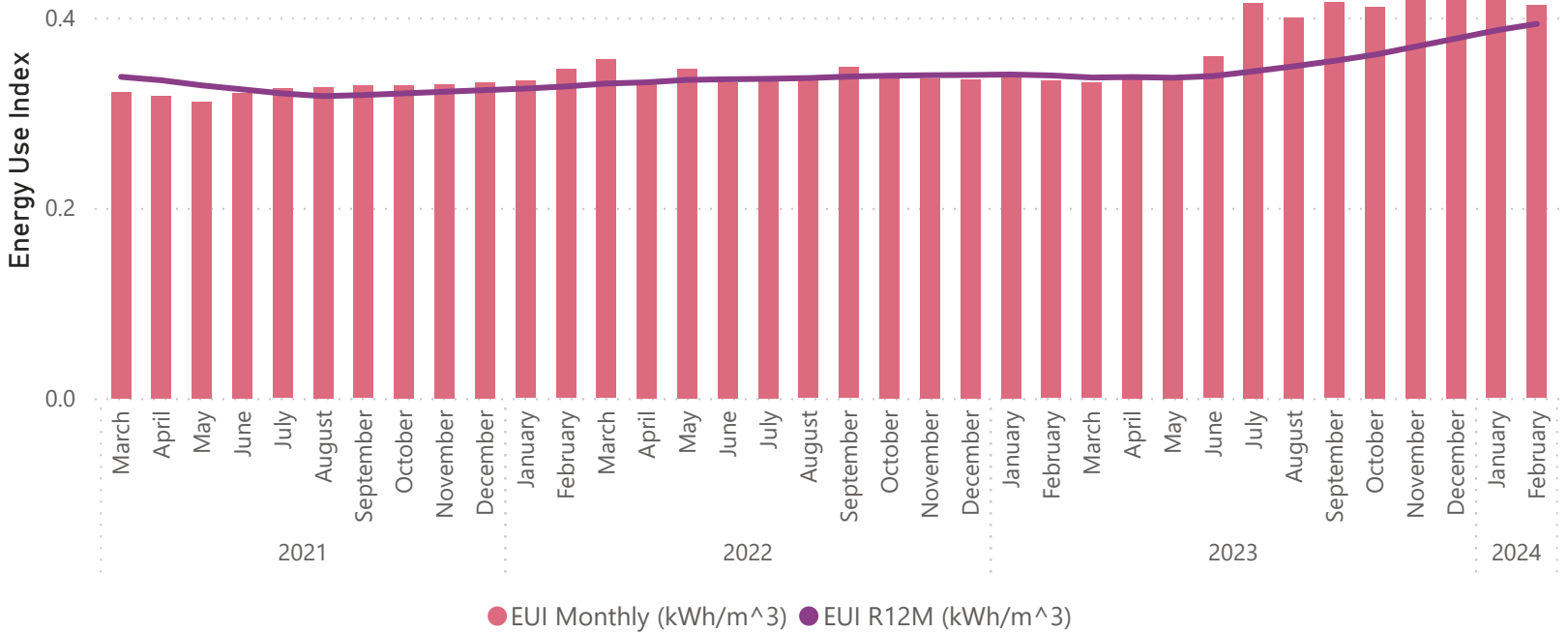


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

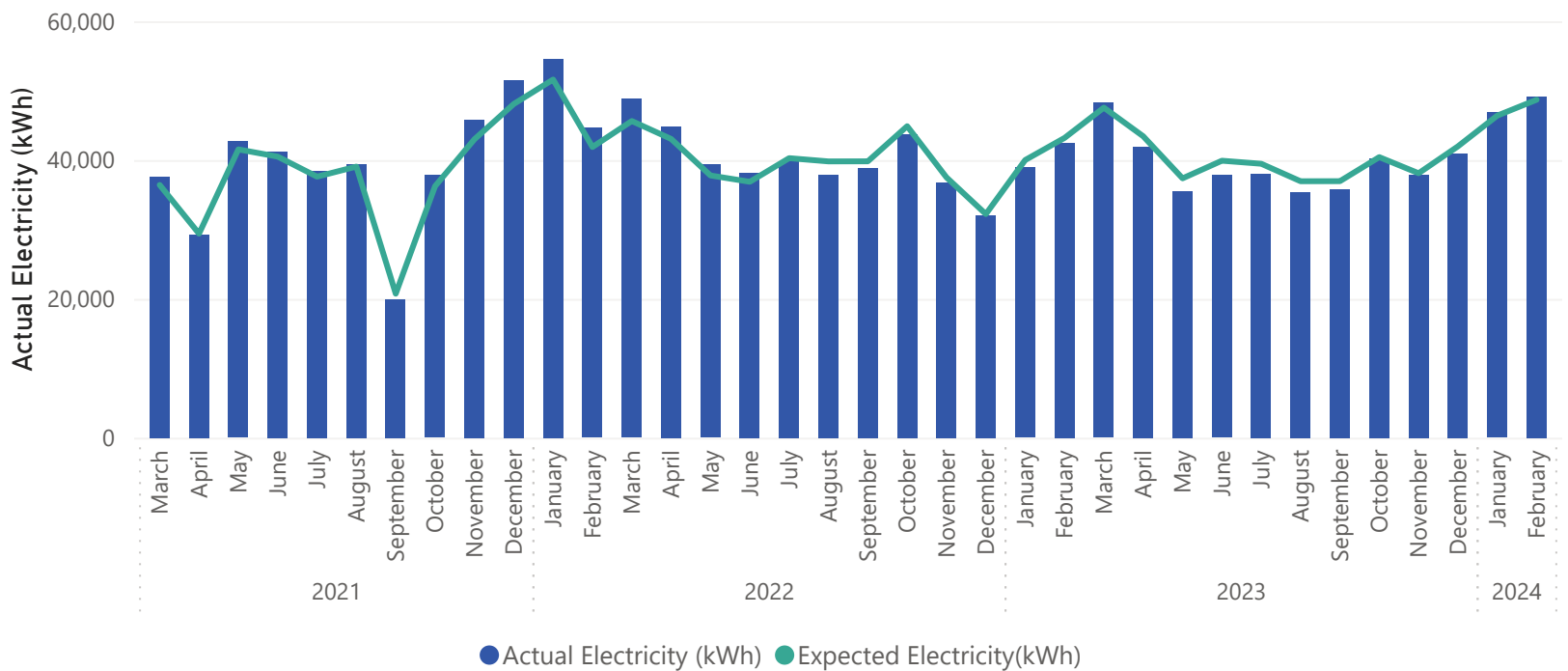
## Paul Road Pump Station

<p><b>-\$63</b> Monthly Energy Cost Savings</p>	<p><b>-417</b> Elec. Savings (kWh/mo)</p>	<p><b>-1%</b> Elec. Savings (%)</p>	<p><b>9,567</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-35</b> CO2e Savings (kg/mo)</p>
<p><b>\$1,787</b> R12M Energy Cost Savings</p>				<p><b>792</b> R12M CO2e Savings (kg/yr)</p>

**Comments:**

Electricity use was close to expected at Paul Road Pump Station. Energy performance has been consistent each month from April 2023, with savings or marginal increase above expected electricity.

Paul Rd Pumps Electricity Use Compared to Baseline (kWh)

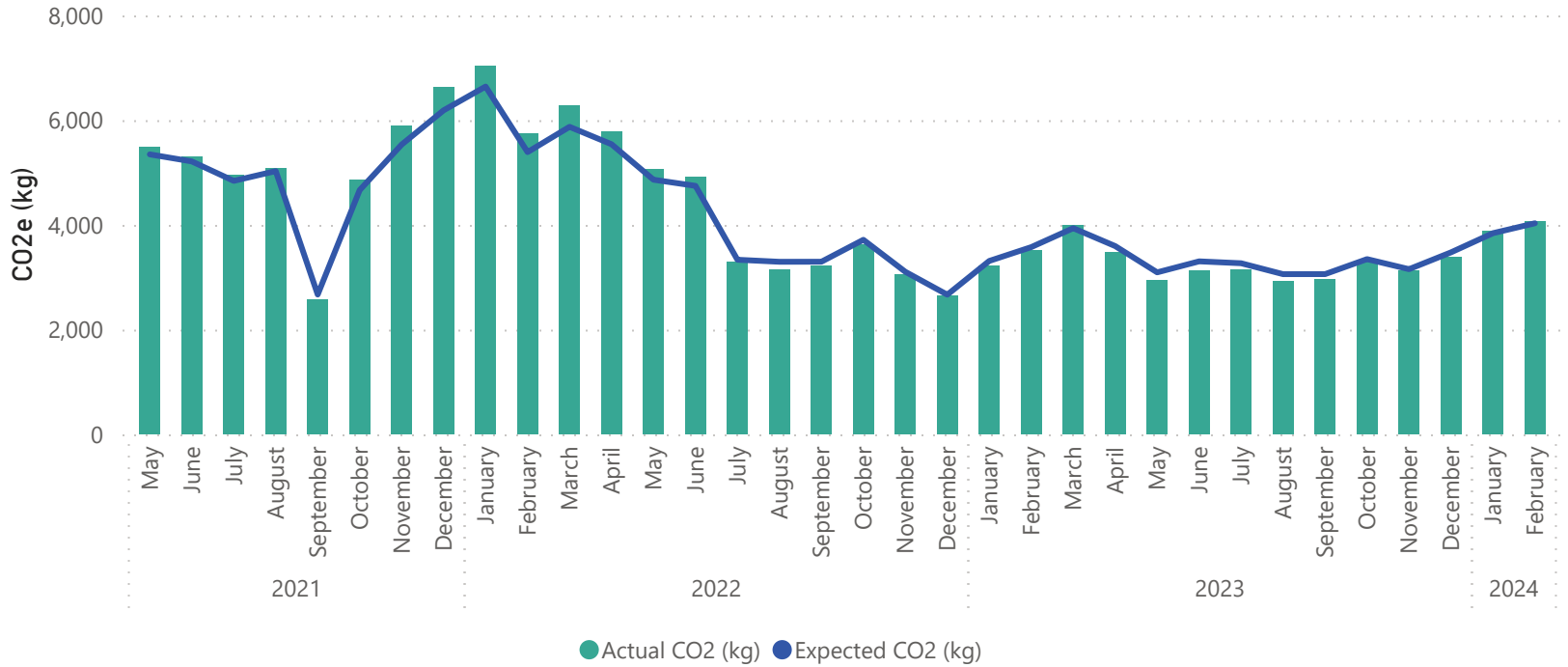


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

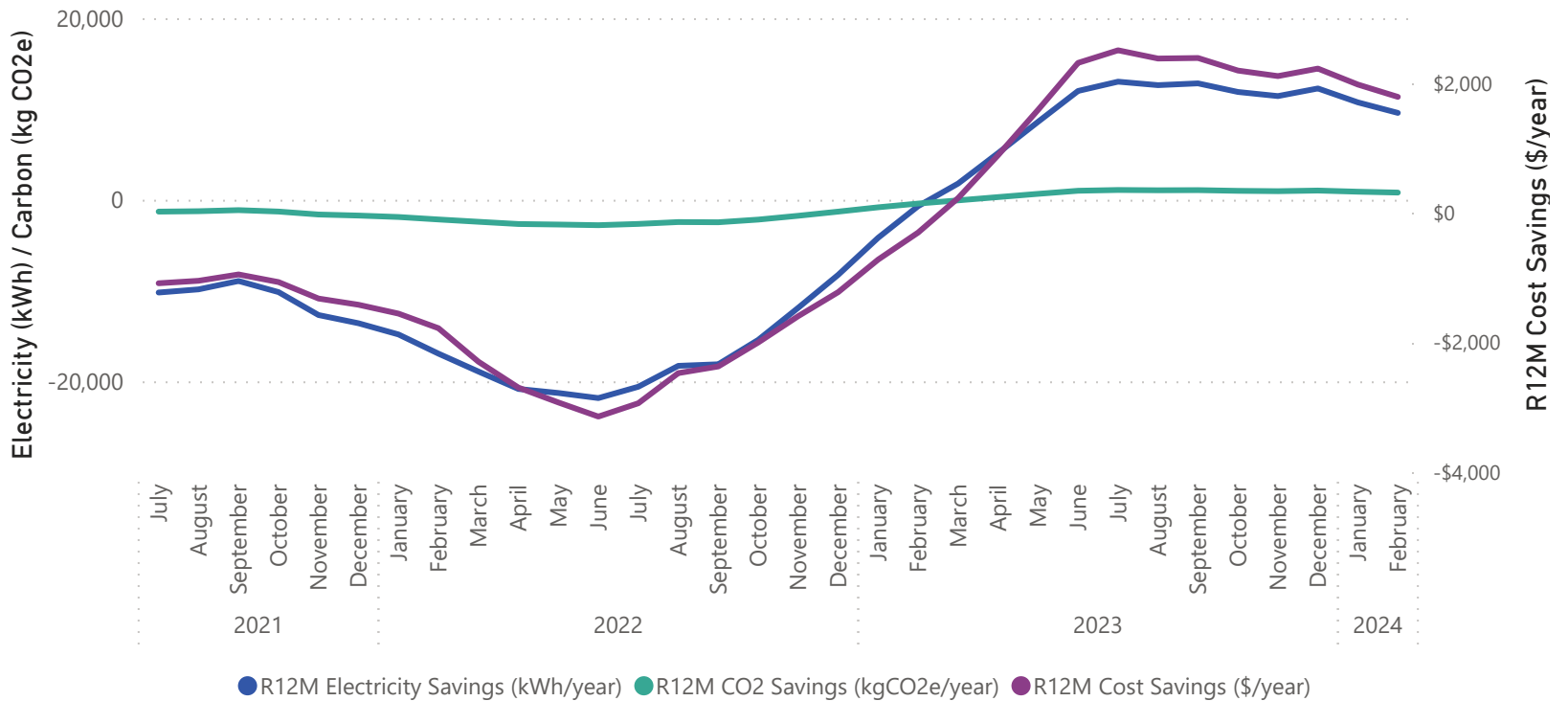
# Whakatane District Council

## Paul Road Pump Station

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



Paul Rd Pumps Rolling 12 Month Savings

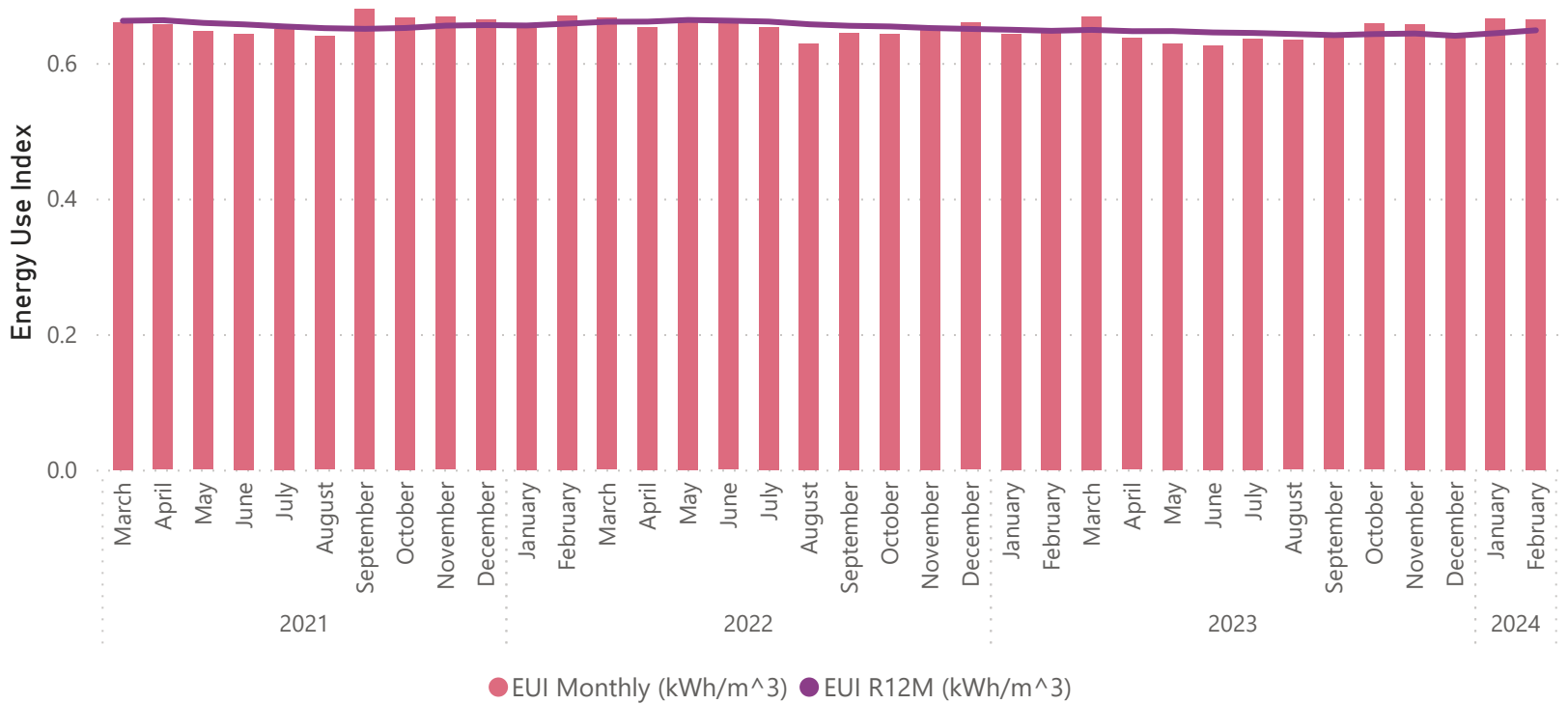


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

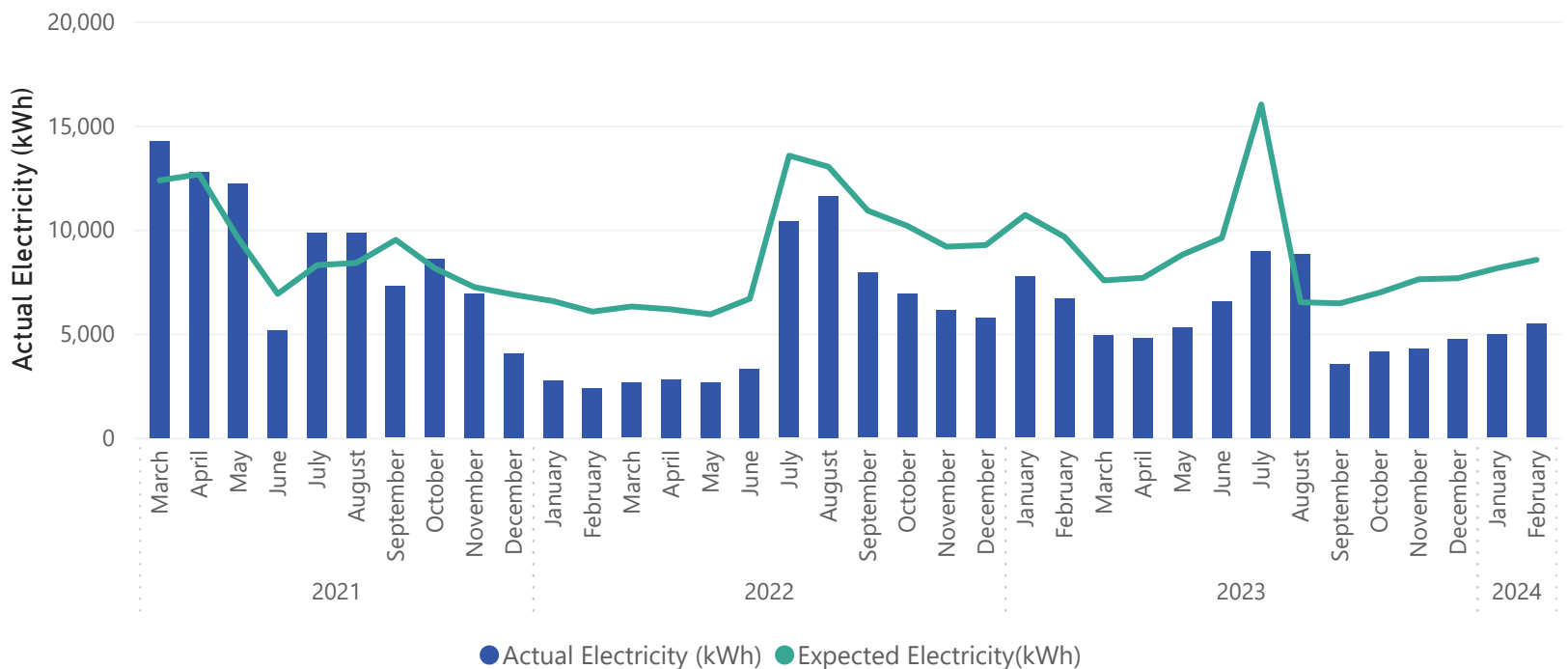
<p><b>\$684</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>3,078</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>36%</b></p> <p>Elec. Savings (%)</p>	<p><b>34,947</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>255</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$7,650</b></p> <p>R12M Energy Cost Savings</p>				<p><b>2,894</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Johnson Rd Pump used 36% less electricity than expected. Over the past six months demand has been increased steadily.

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 the 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)

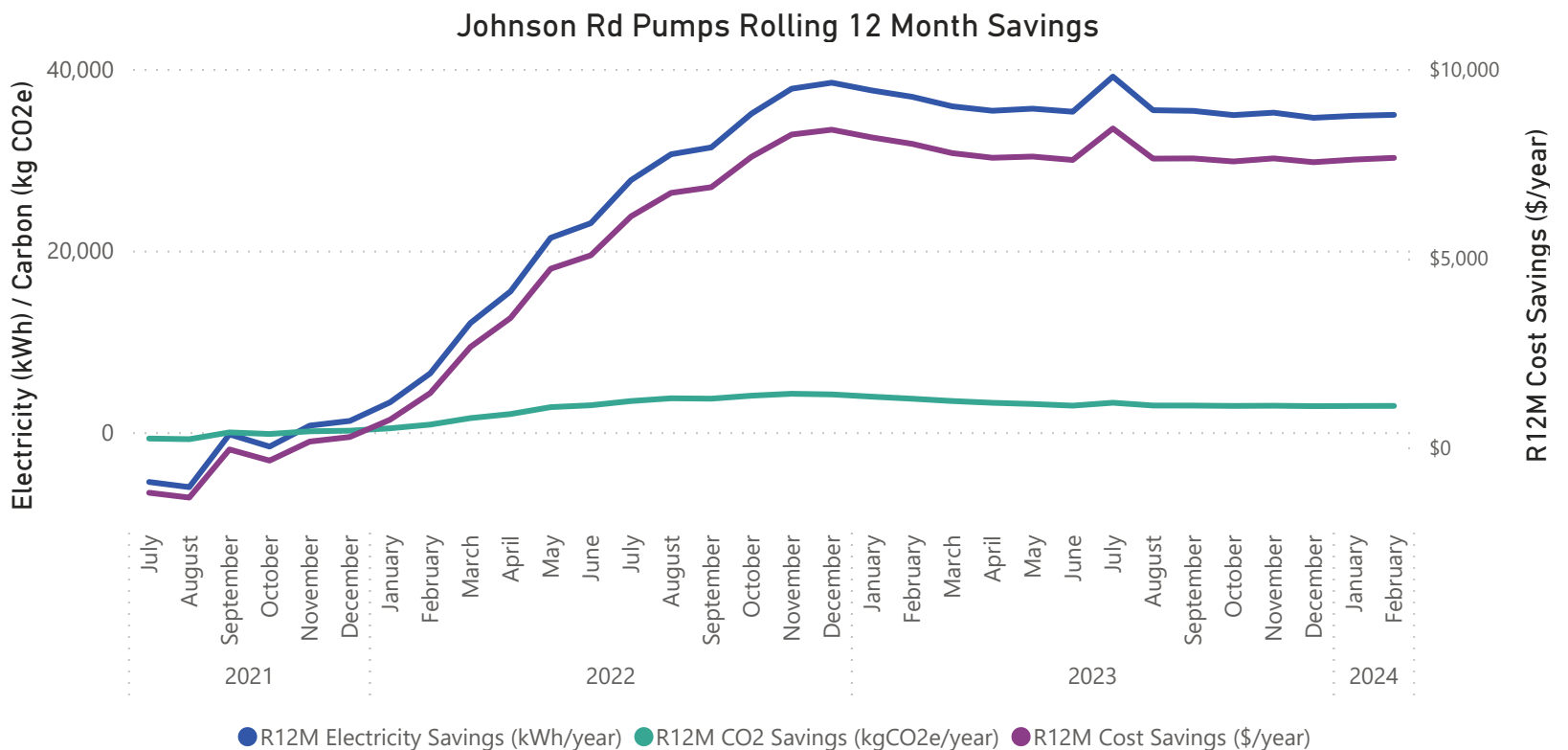
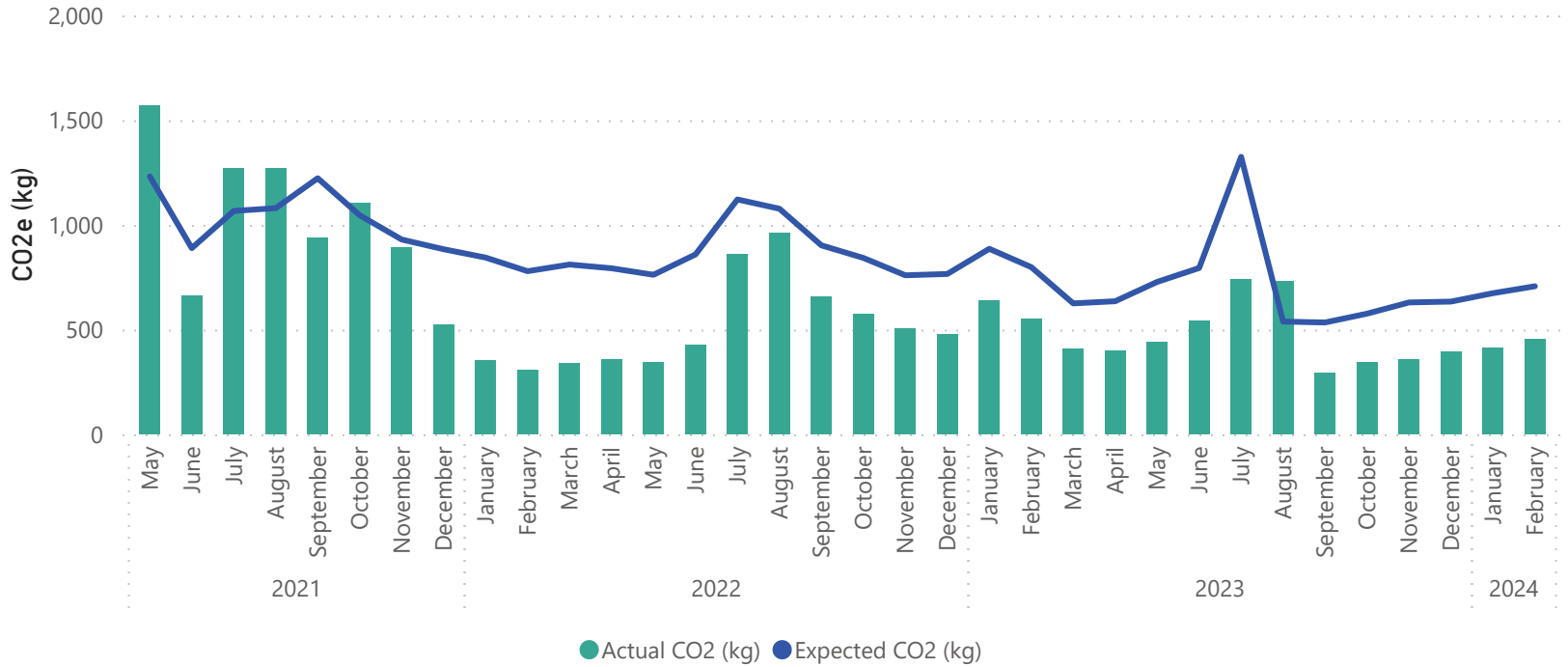


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council

## Johnson Road Pump Station

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

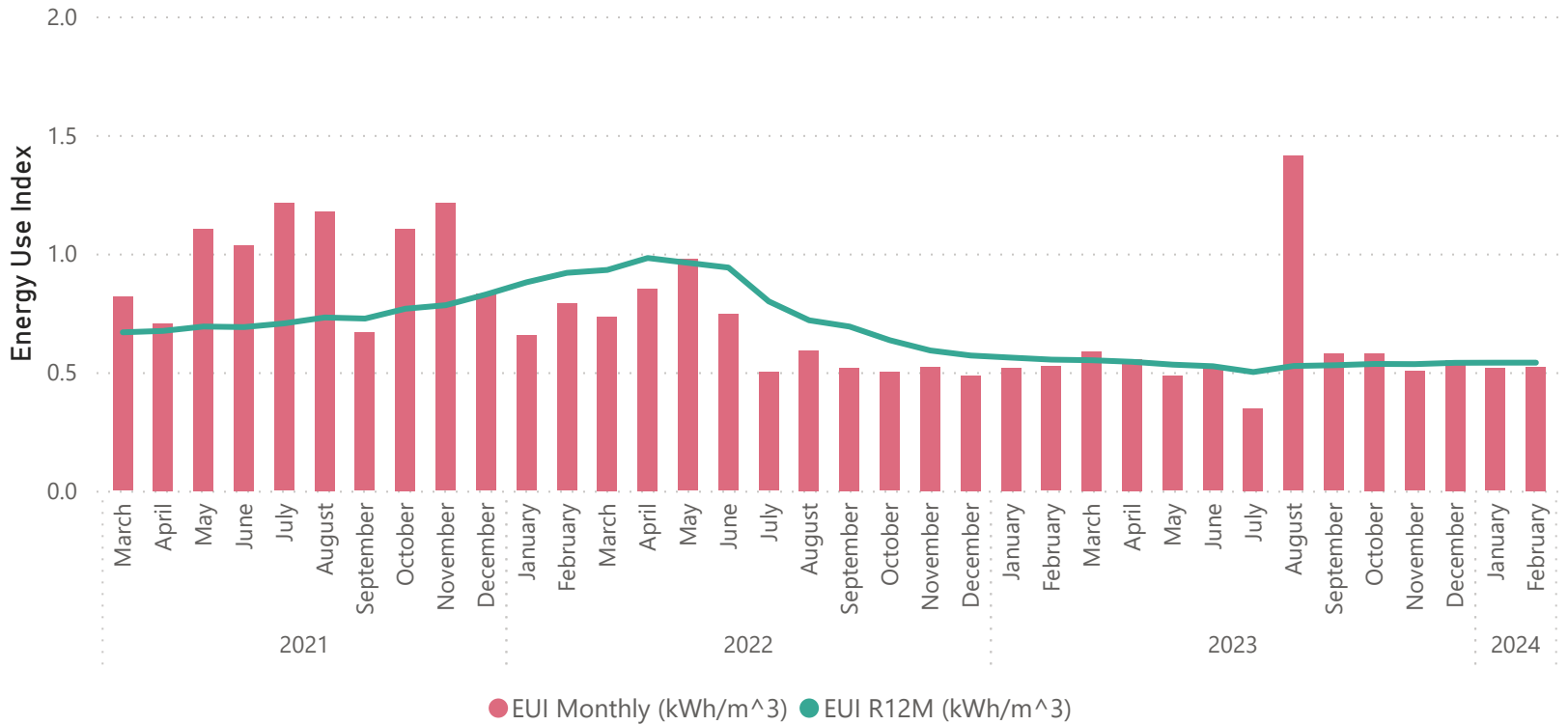


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

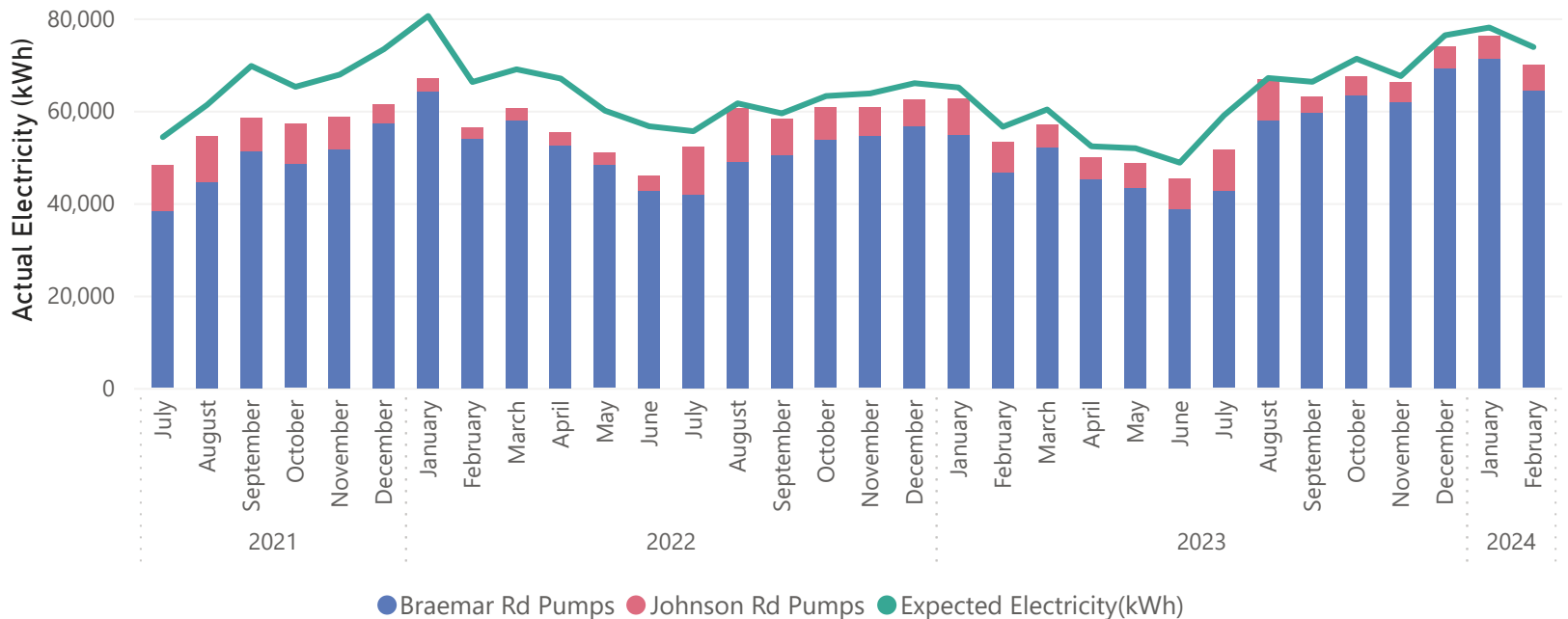
## Johnson and Braemar Rd Pump Stations

<p><b>\$803</b> Monthly Energy Cost Savings</p>	<p><b>3,862</b> Elec. Savings (kWh/mo)</p>	<p><b>5%</b> Elec. Savings (%)</p>	<p><b>36,273</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>320</b> CO2e Savings (kg/mo)</p>
<p><b>\$8,013</b> R12M Energy Cost Savings</p>				<p><b>3,003</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

Braemar Rd pump station has been re-baselined due to new pumping requirements from additional screens added, which has increased electricity use by approximately 24%.

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

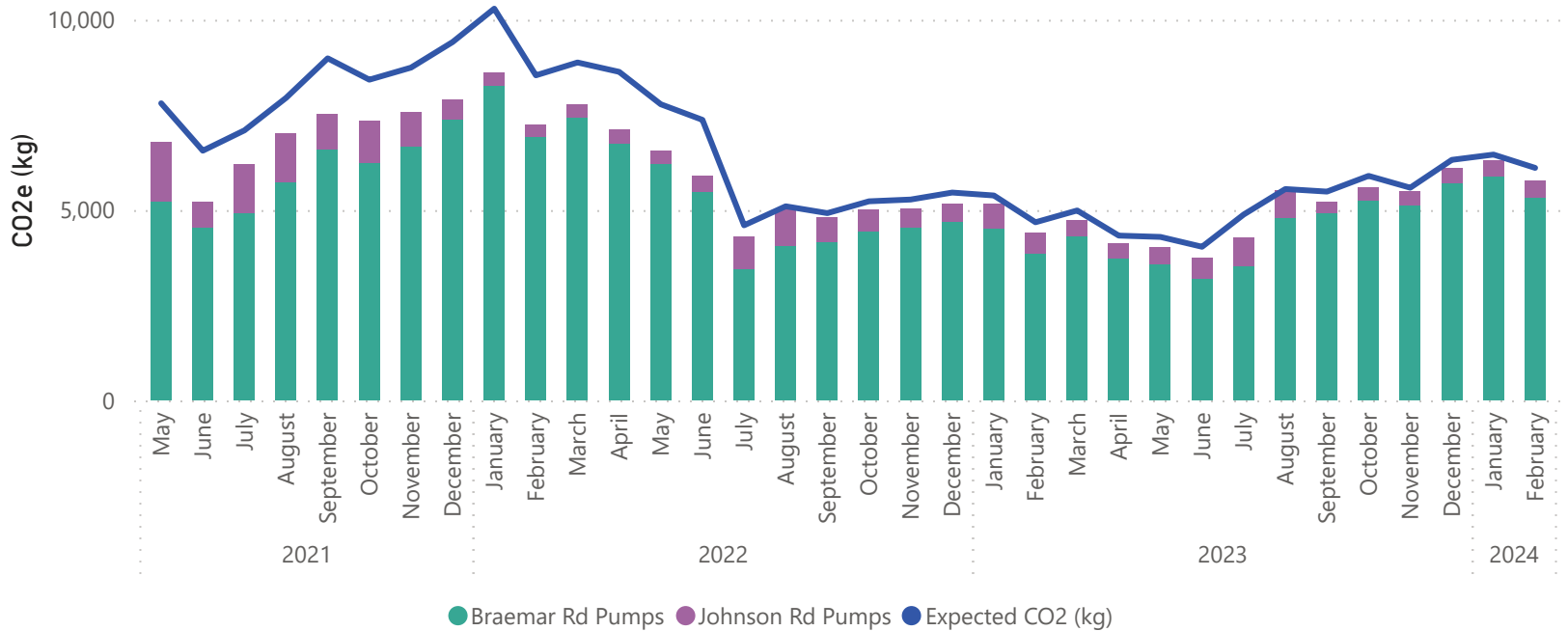


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

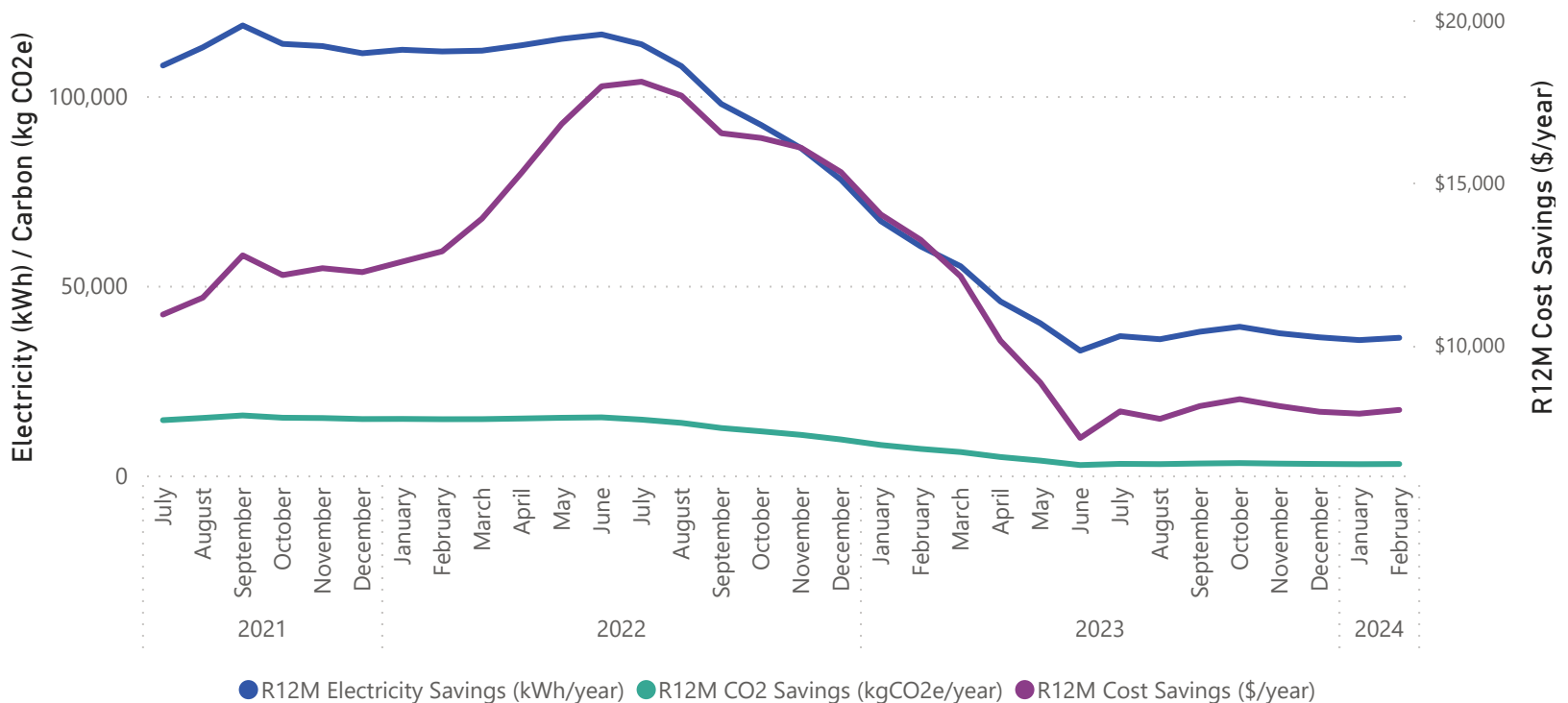
# Whakatane District Council

## 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

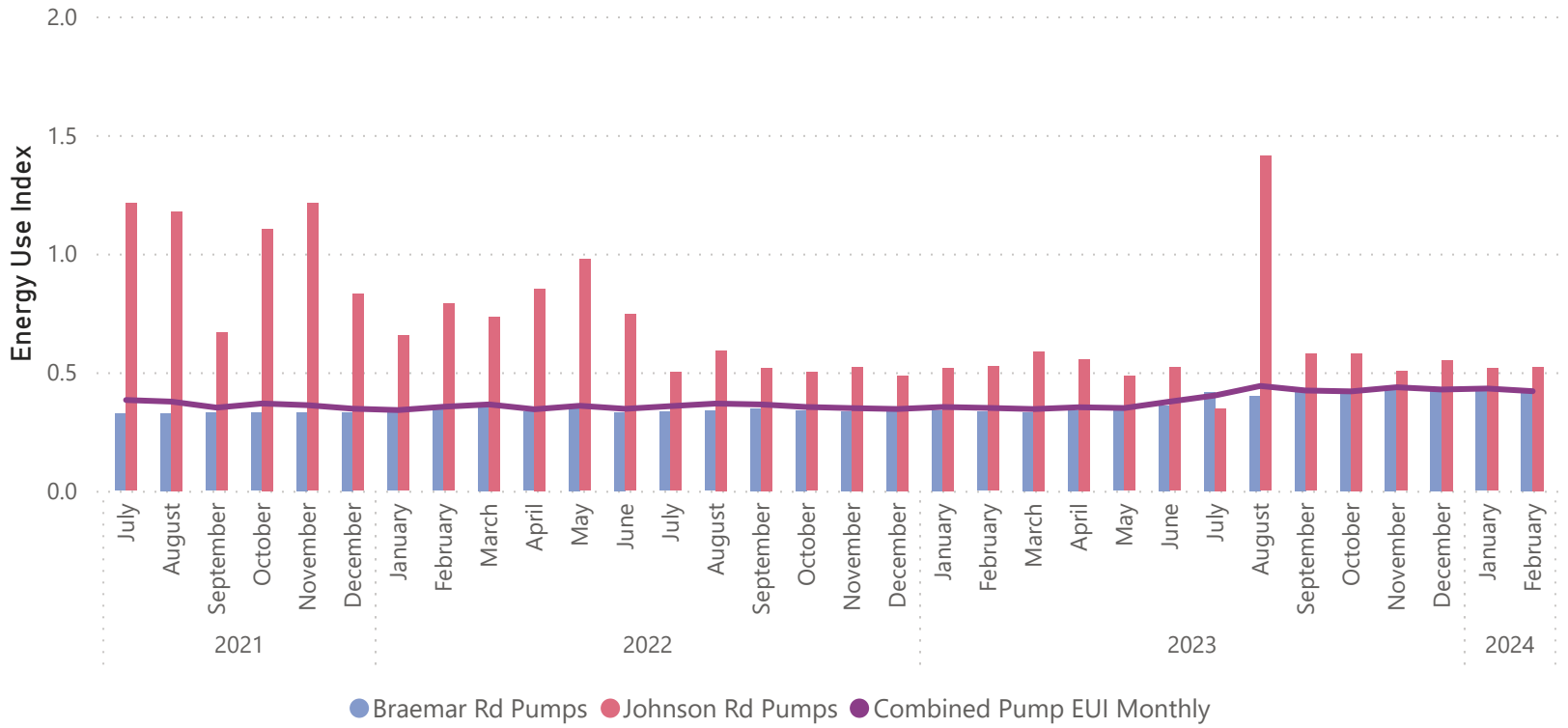


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

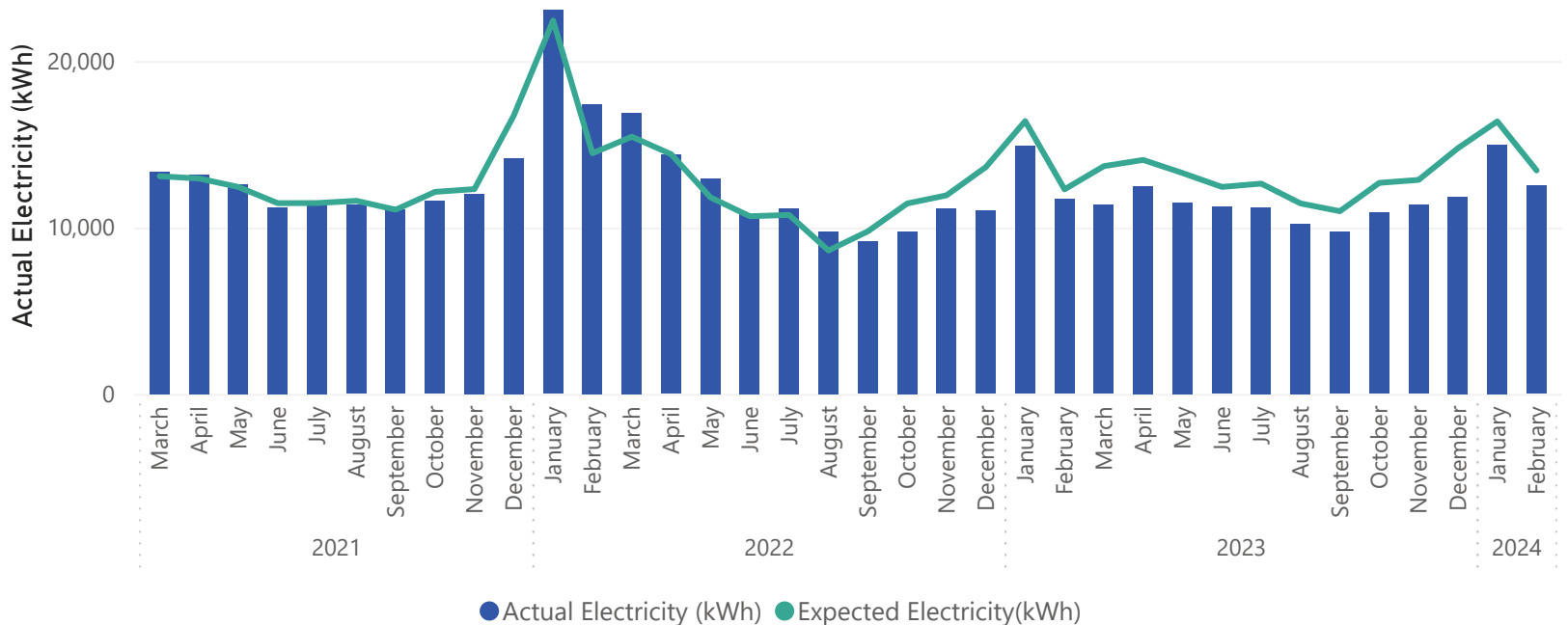
## Bridger Glade Pump Station

<p><b>\$162</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>913</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>7%</b></p> <p>Elec. Savings (%)</p>	<p><b>19,306</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>76</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$3,412</b></p> <p>R12M Energy Cost Savings</p>				<p><b>1,599</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Bridger Glade Pump Station has used less electricity than expected since September 2022, which is excellent. This is due to new supply pumps that were installed in late August 2022. Savings over the past year are \$3,400, 19,300 kWh, and 1,600 kg CO2e.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

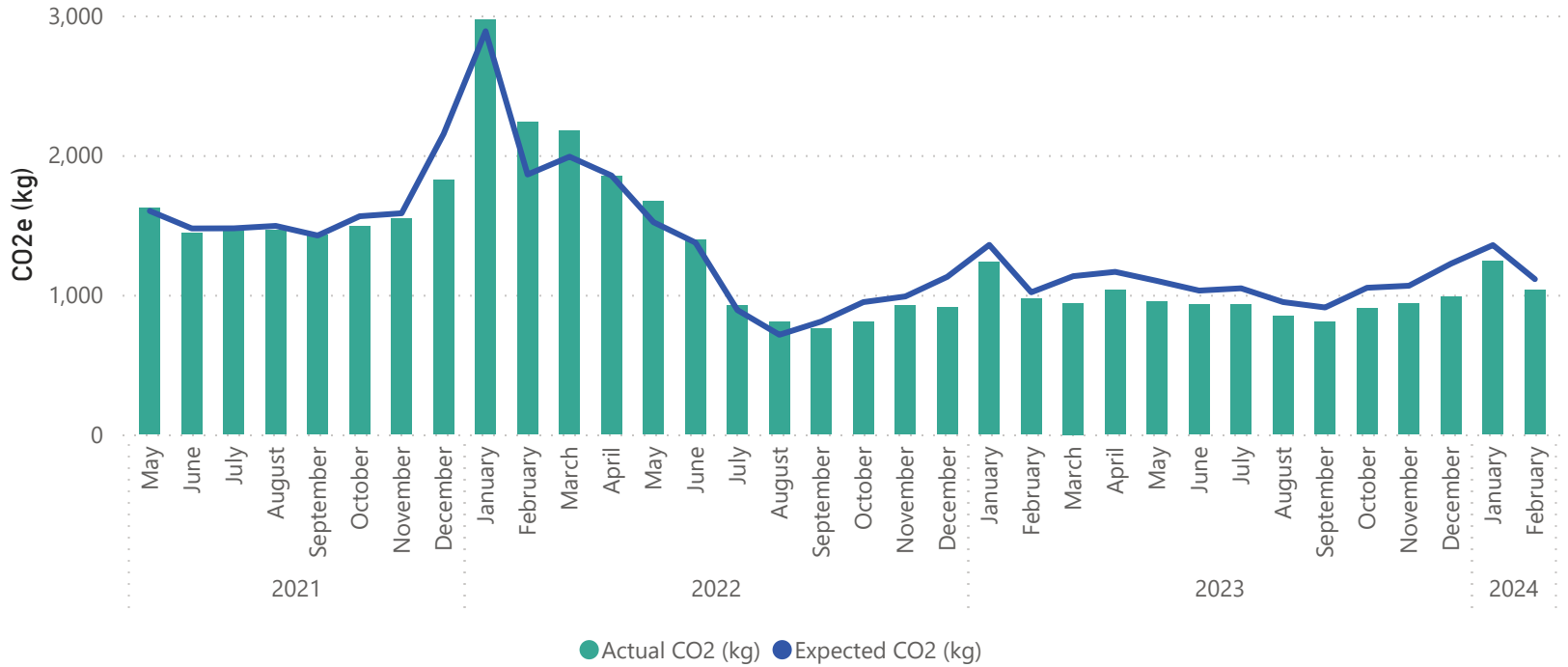


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

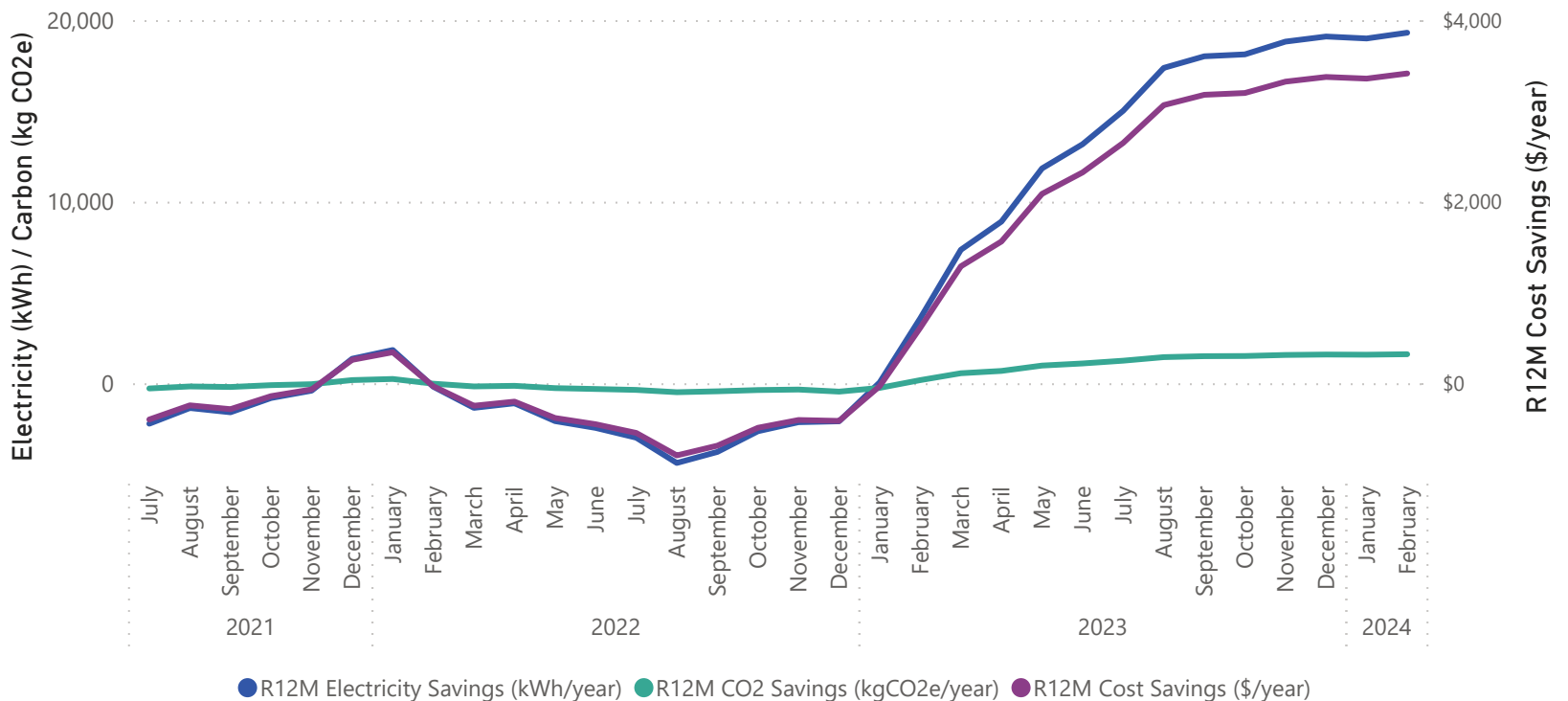
# Whakatane District Council

## Bridger Glade Pump Station

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



Bridger Glade Pumps Rolling 12 Month Savings

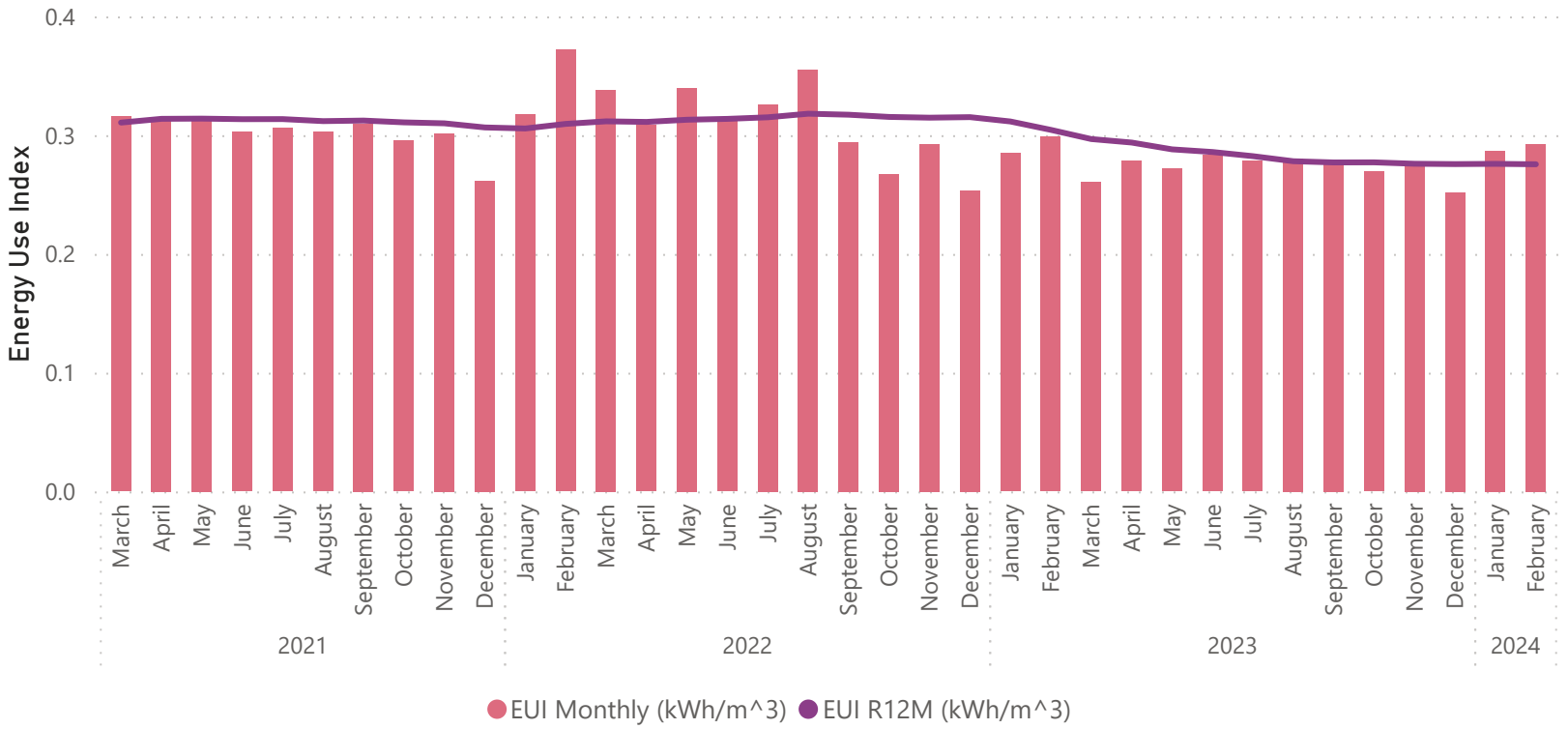


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

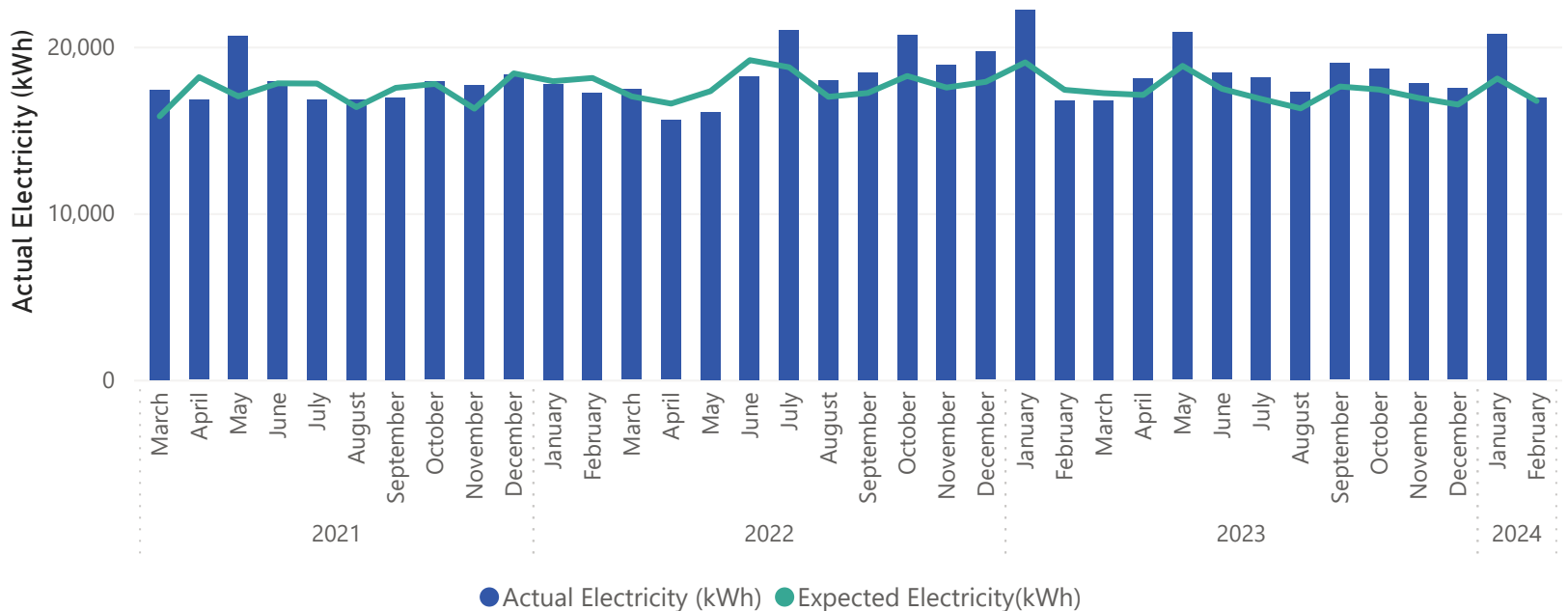
## Ohope Oxidation Ponds

<p><b>-\$36</b> Monthly Energy Cost Savings</p>	<p><b>-200</b> Elec. Savings (kWh/mo)</p>	<p><b>-1%</b> Elec. Savings (%)</p>	<p><b>-13,210</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-17</b> CO2e Savings (kg/mo)</p>
<p><b>-\$2,362</b> R12M Energy Cost Savings</p>				<p><b>-1,094</b> R12M CO2e Savings (kg/yr)</p>

**Comments:**

Ohope Oxidation Ponds have used more electricity than expected in 11 of the last 12 months. Rainfall has generally been higher than usual, which may contribute to higher electricity usage. The monthly EUI in February is more than average for the past 12 months.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

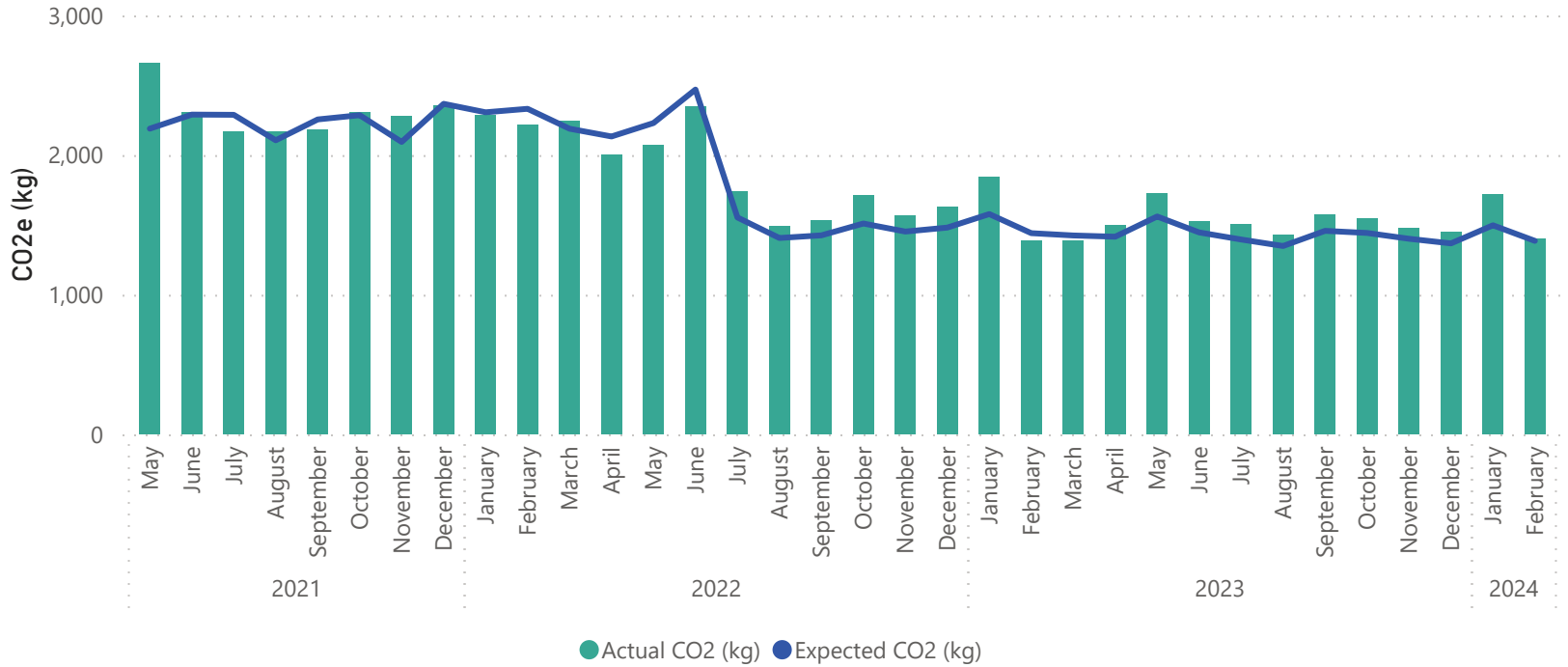


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

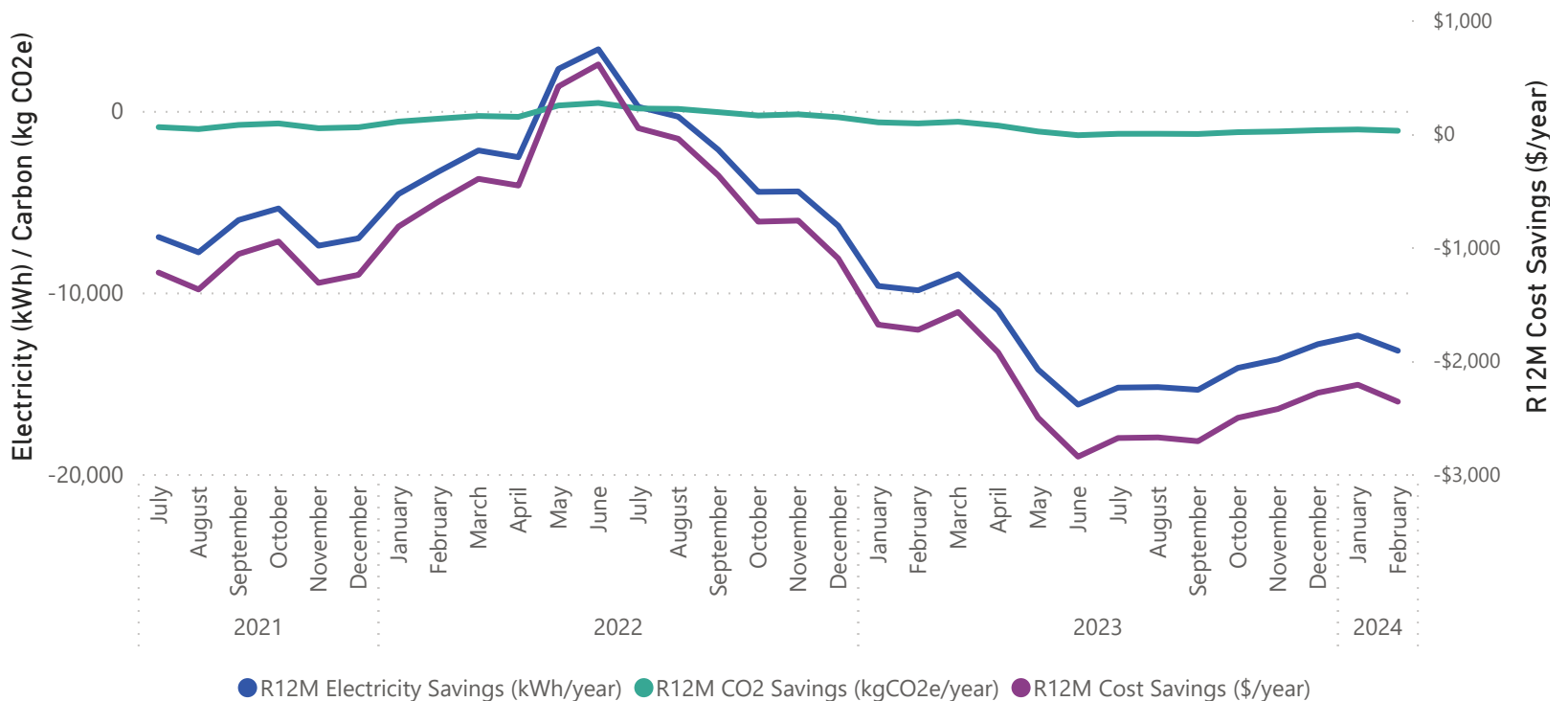
# Whakatane District Council

## Ohope Oxidation Ponds

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



Ohope Oxidation Ponds Rolling 12 Month Savings



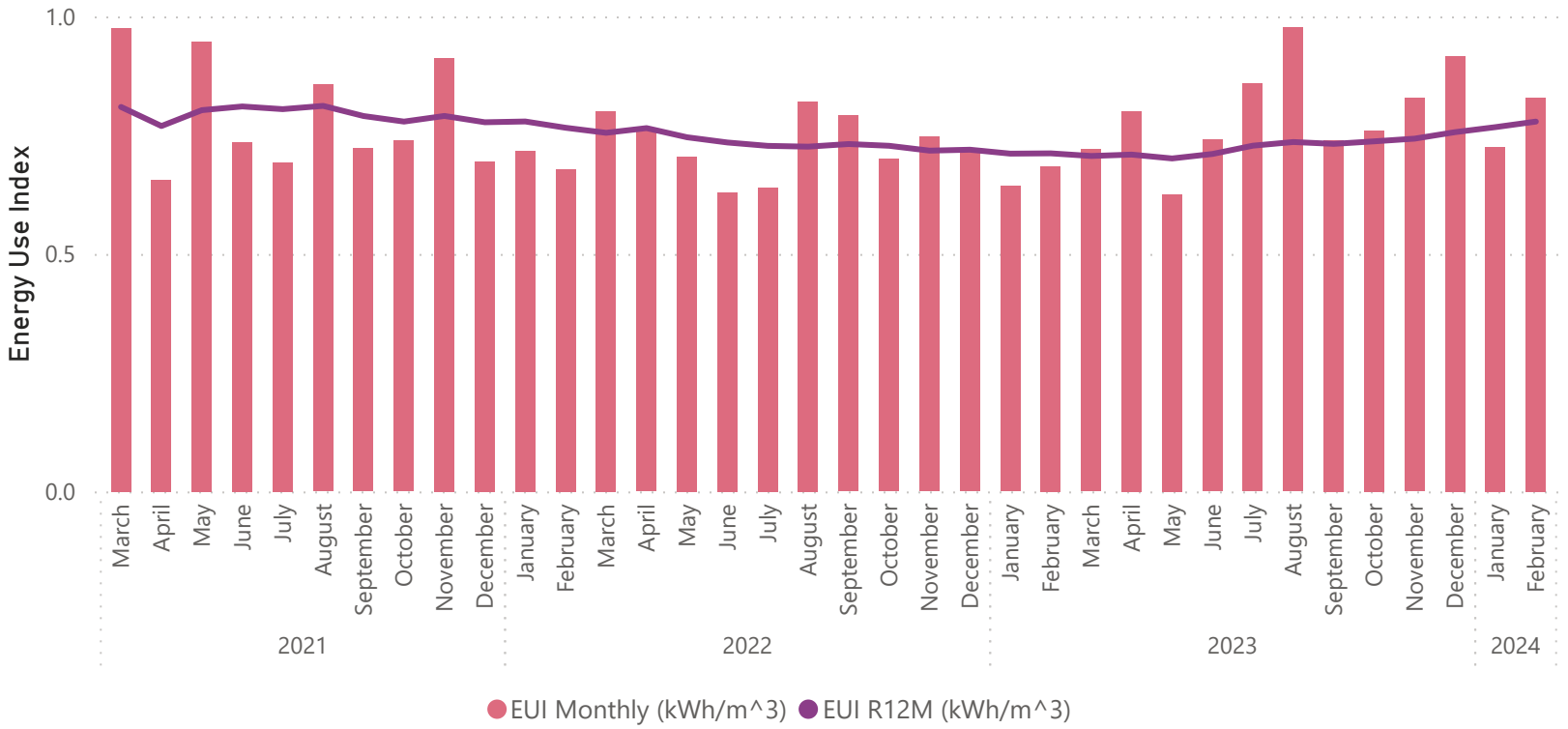
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**



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

# Whakatane District Council

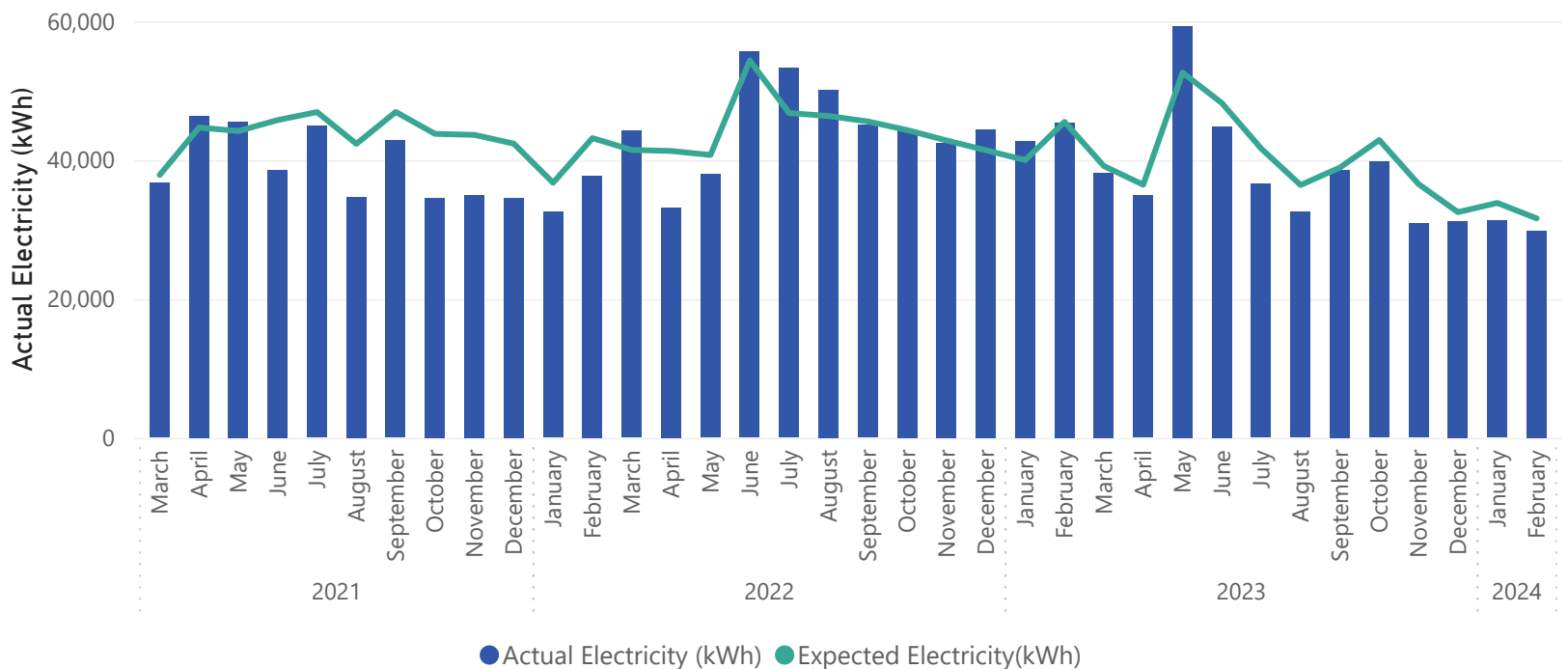
## Whakatane Oxidation Ponds

<p><b>\$1,397</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>1,798</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>6%</b></p> <p>Elec. Savings (%)</p>	<p><b>22,967</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>149</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$5,270</b></p> <p>R12M Energy Cost Savings</p>				<p><b>1,902</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

The oxidation ponds used less electricity than expected in February 2024. February 2024 was a month with lower than average rainfall, approximately 76mm of rain was recorded for the month. The EUI for the month is above average compared to the last 12 months.

Whakatane Oxidation Ponds Electricity Use Compared to Baseline (kWh)

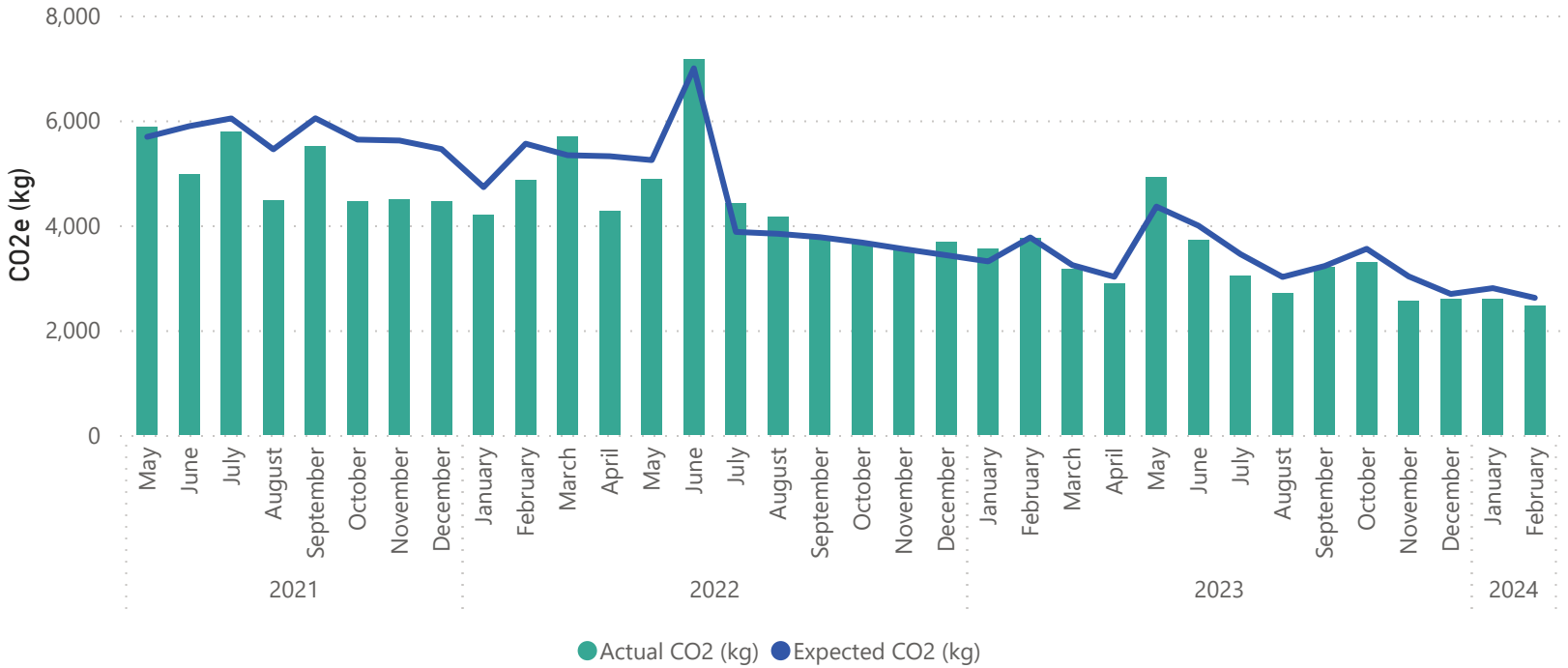


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

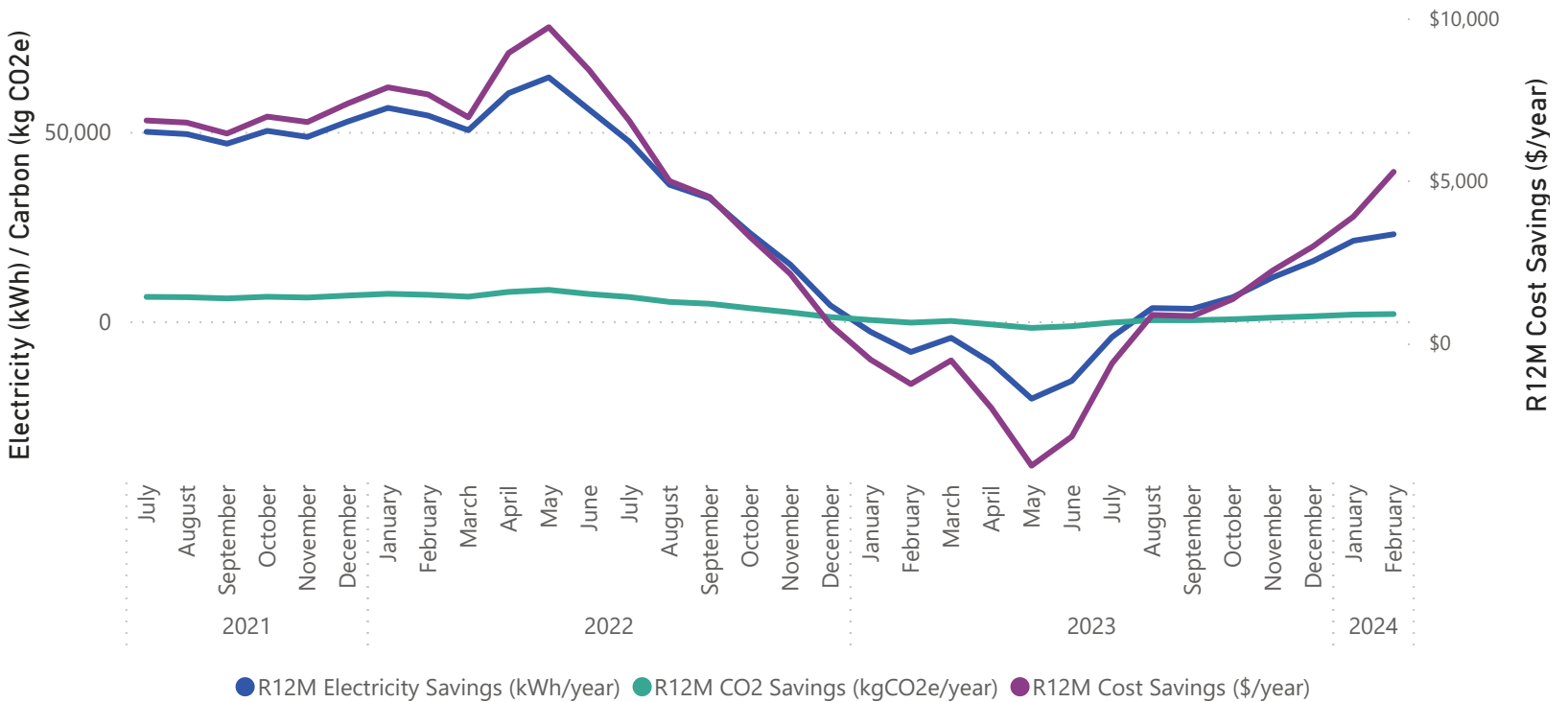
# Whakatane District Council

## Whakatane Oxidation Ponds

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



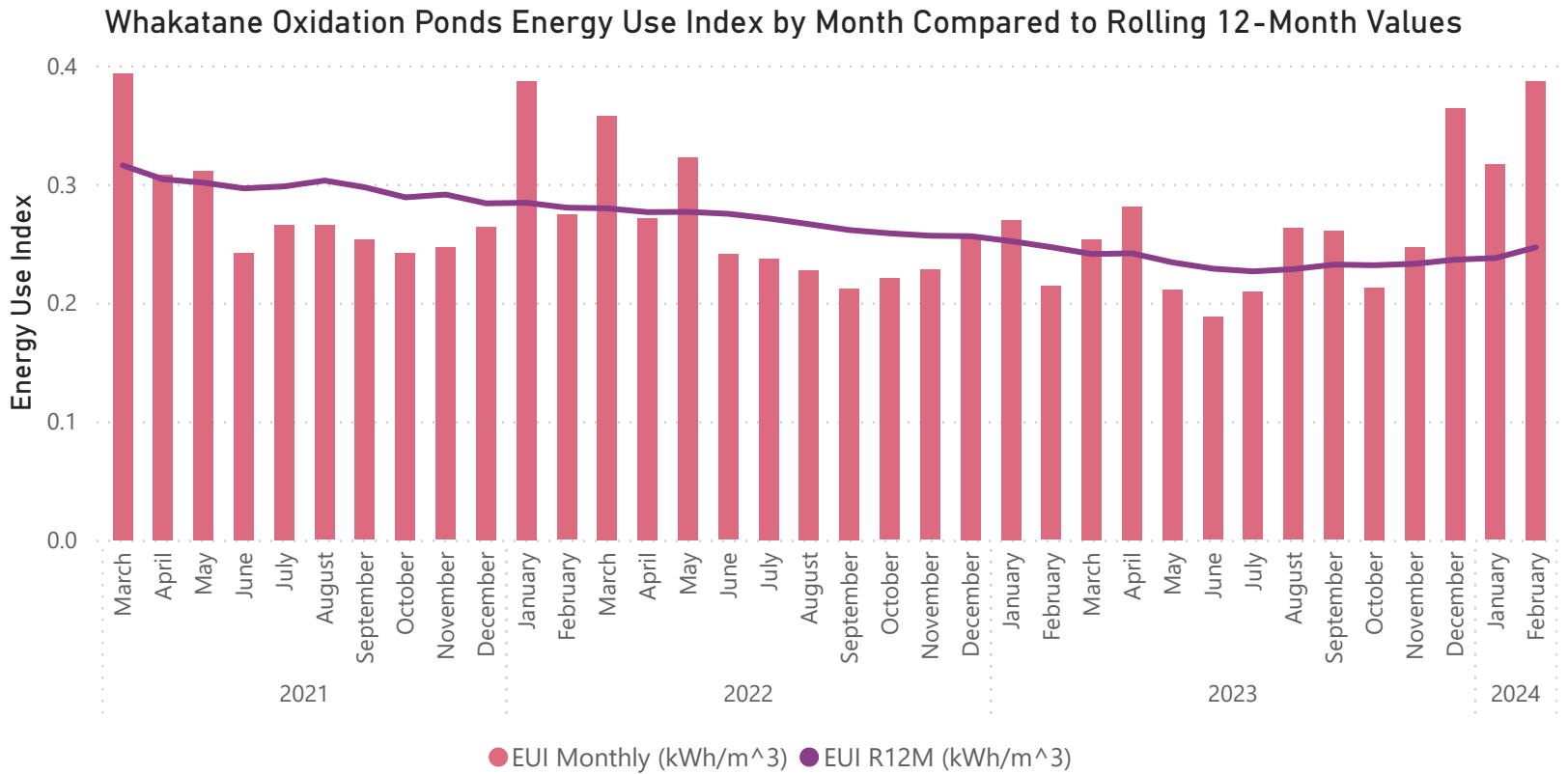
Whakatane Oxidation Ponds Rolling 12 Month Savings



**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

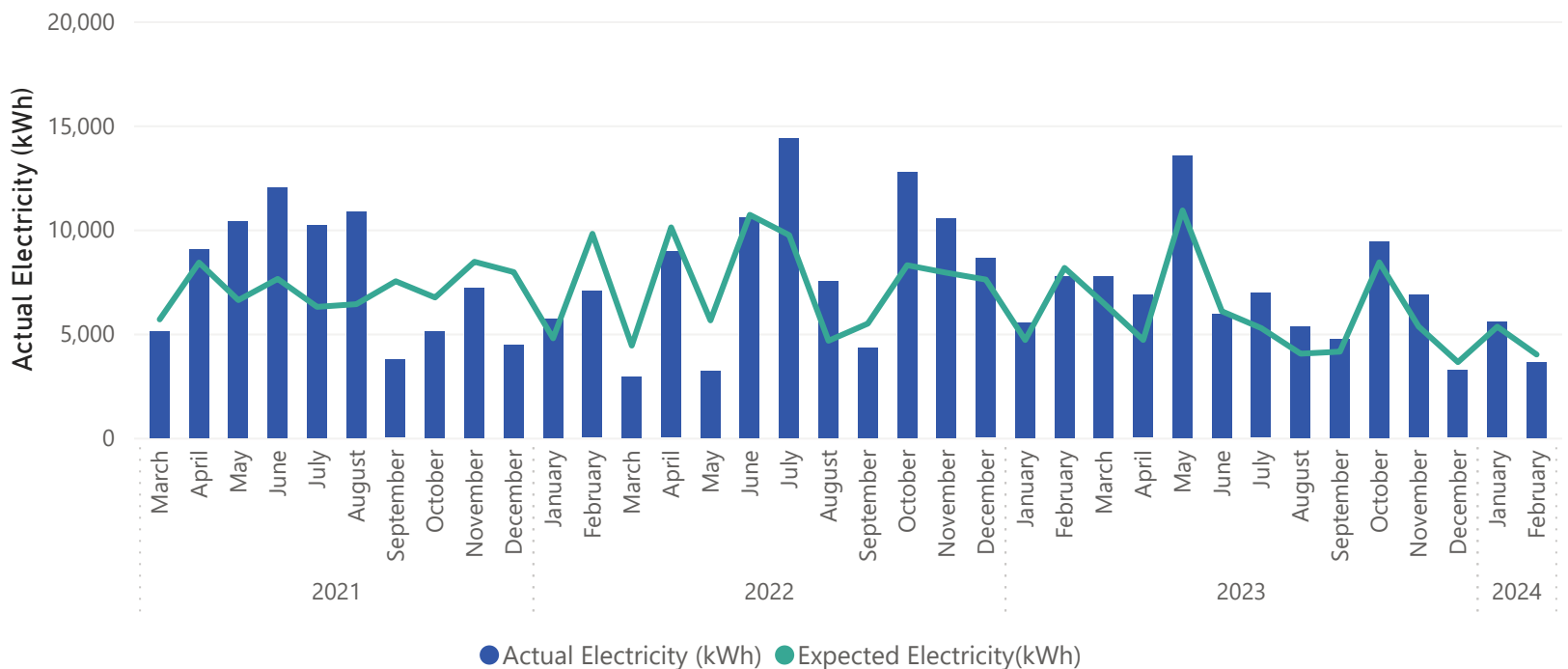
## McAlister Street and Rose Garden Pump Stations

<p><b>\$204</b> Monthly Energy Cost Savings</p>	<p><b>355</b> Elec. Savings (kWh/mo)</p>	<p><b>9%</b> Elec. Savings (%)</p>	<p><b>-11,606</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>29</b> CO2e Savings (kg/mo)</p>
<p><b>\$1,050</b> R12M Energy Cost Savings</p>				<p><b>-961</b> R12M CO2e Savings (kg/yr)</p>

**Comments:**

The pump stations used 9% less electricity than expected this month. Approximately 44mm of rain coincided within the billing period. Rainfall over the past 12 months averaged about 110mm per month.

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

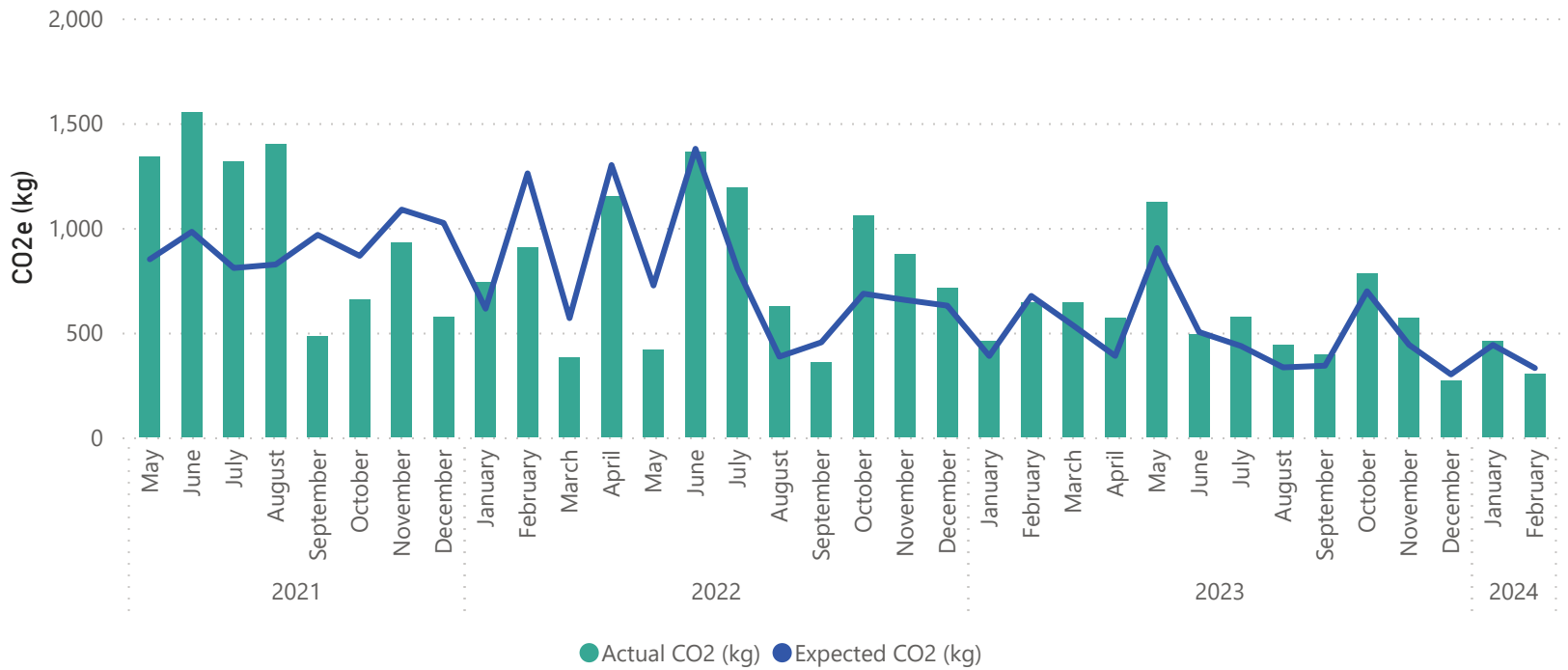


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

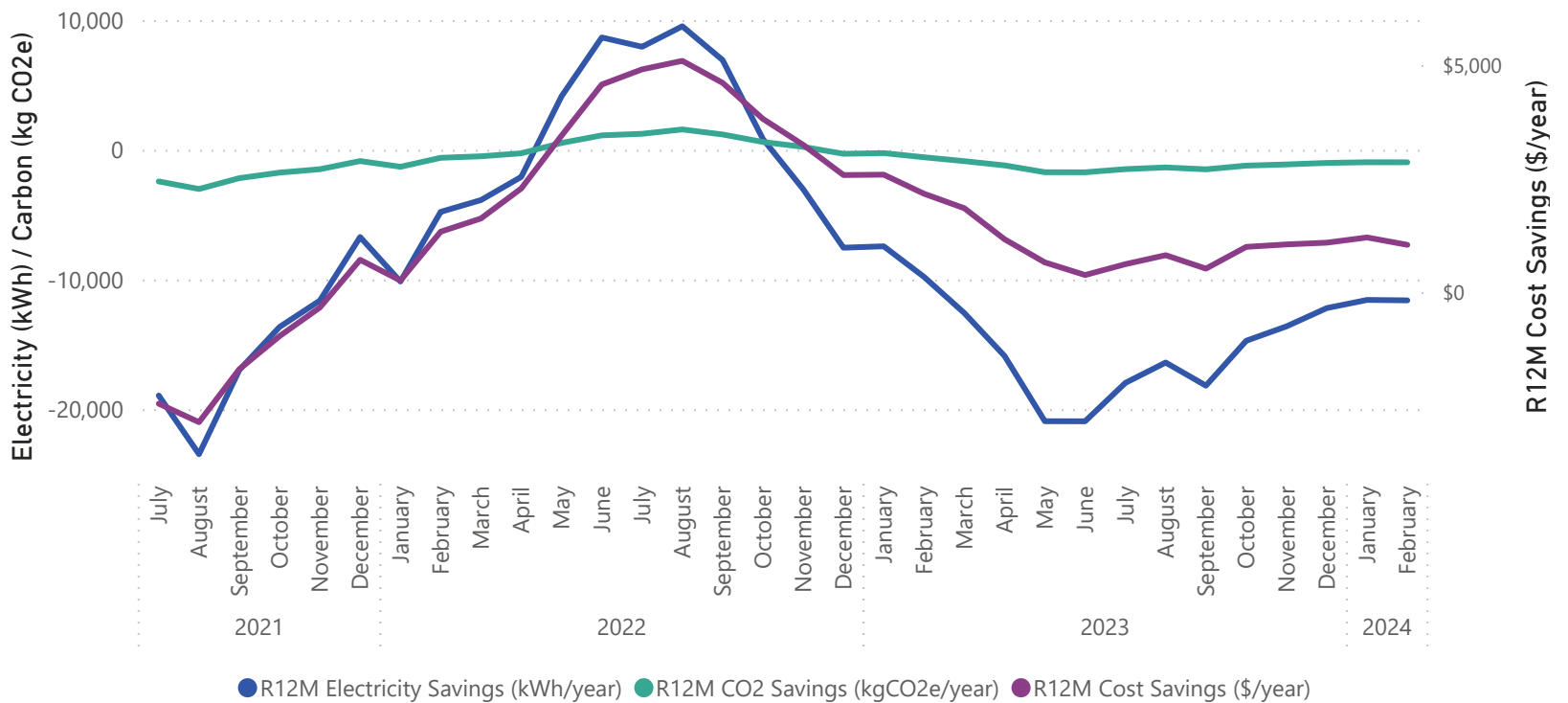
# Whakatane District Council

## 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



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# Whakatane District Council

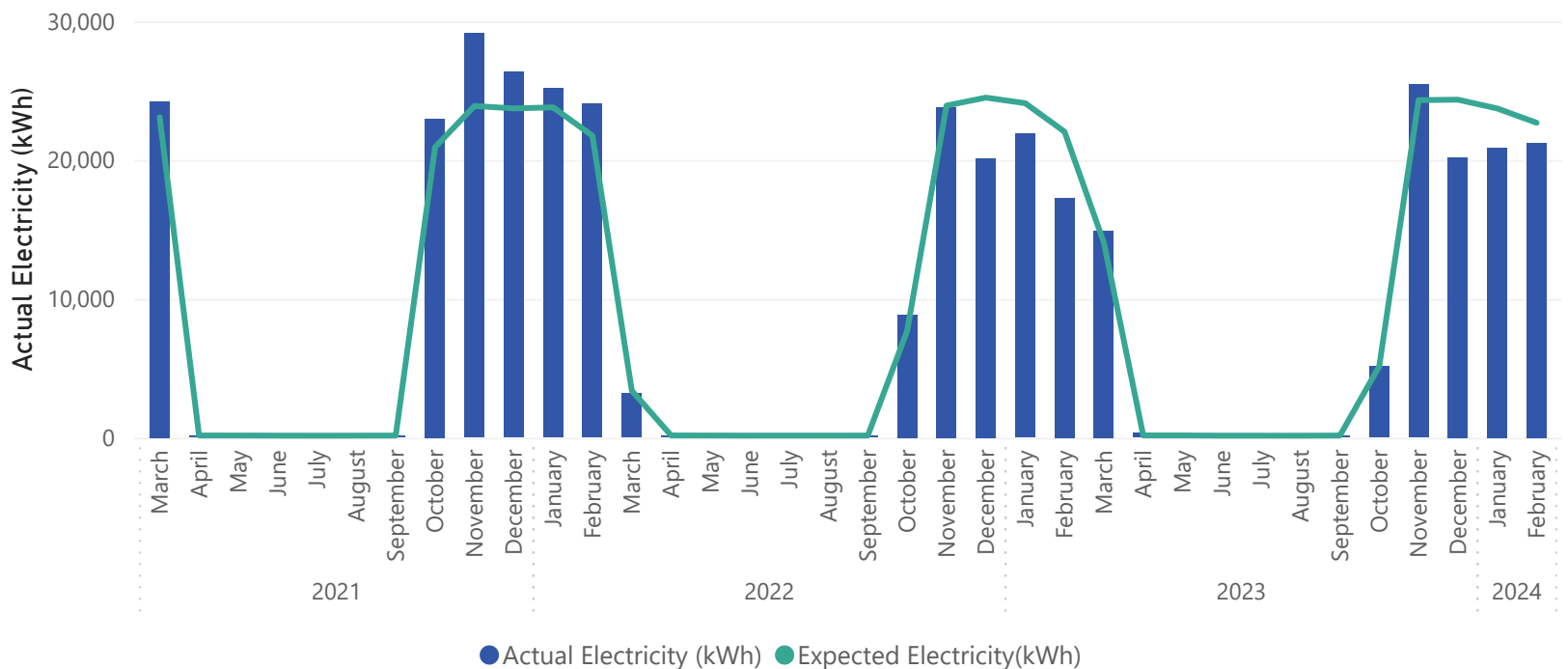
## Murupara Pools

<p><b>\$234</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>1,446</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>6%</b></p> <p>Elec. Savings (%)</p>	<p><b>6,364</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>120</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$967</b></p> <p>R12M Energy Cost Savings</p>				<p><b>527</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Murupara Pools have opened for the season, heating of the pools started in late October 2023, electricity use in February was 6% less than expected.

Murupara Pools Electricity Use Compared to Baseline (kWh)

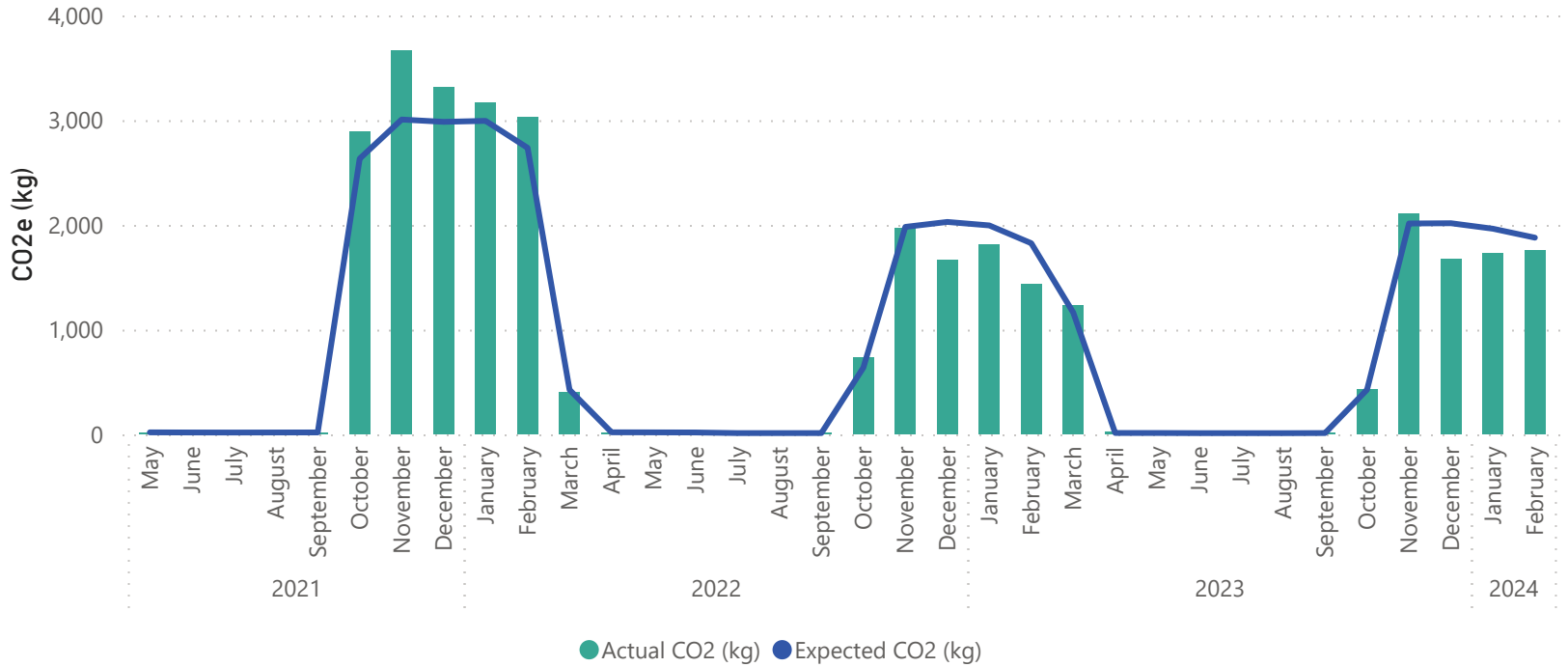


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

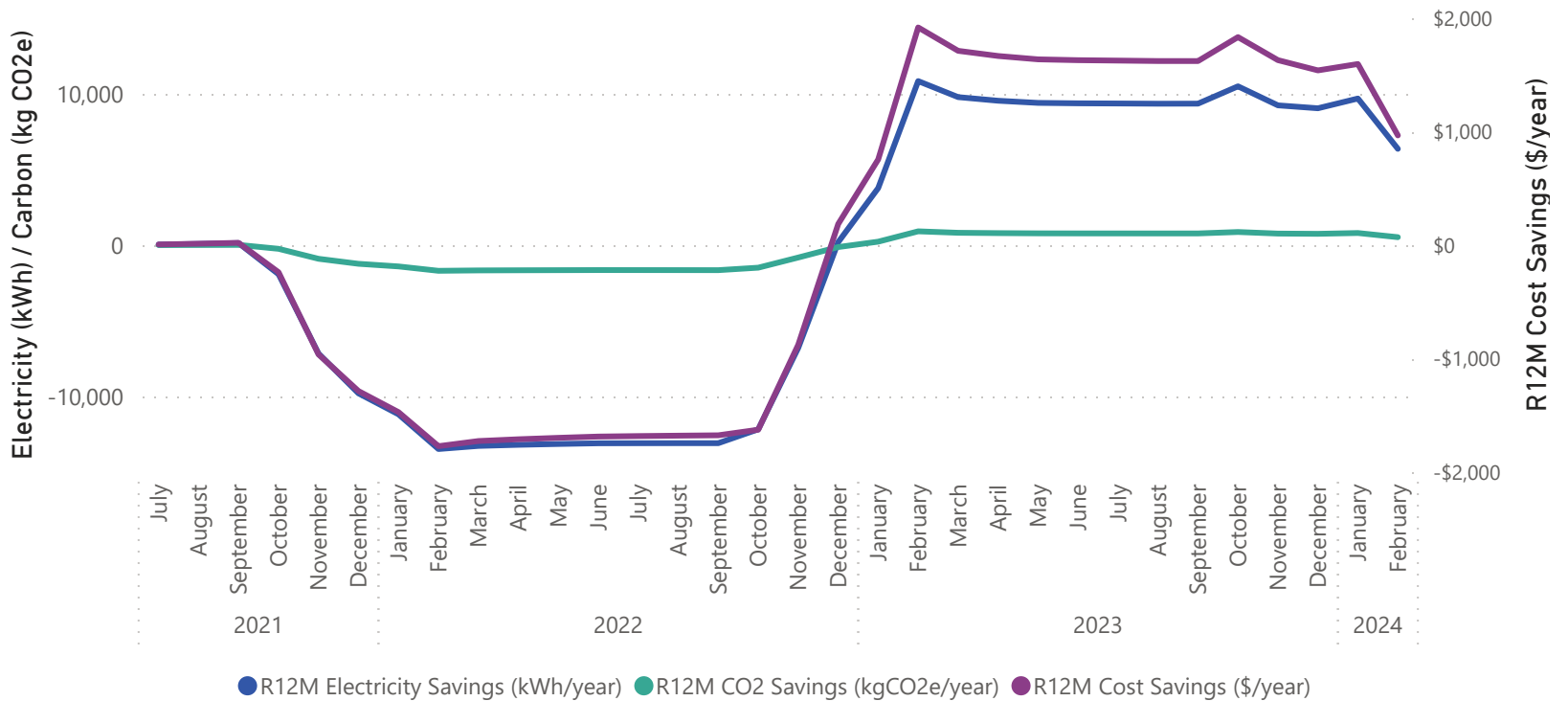
# Whakatane District Council

## 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.**