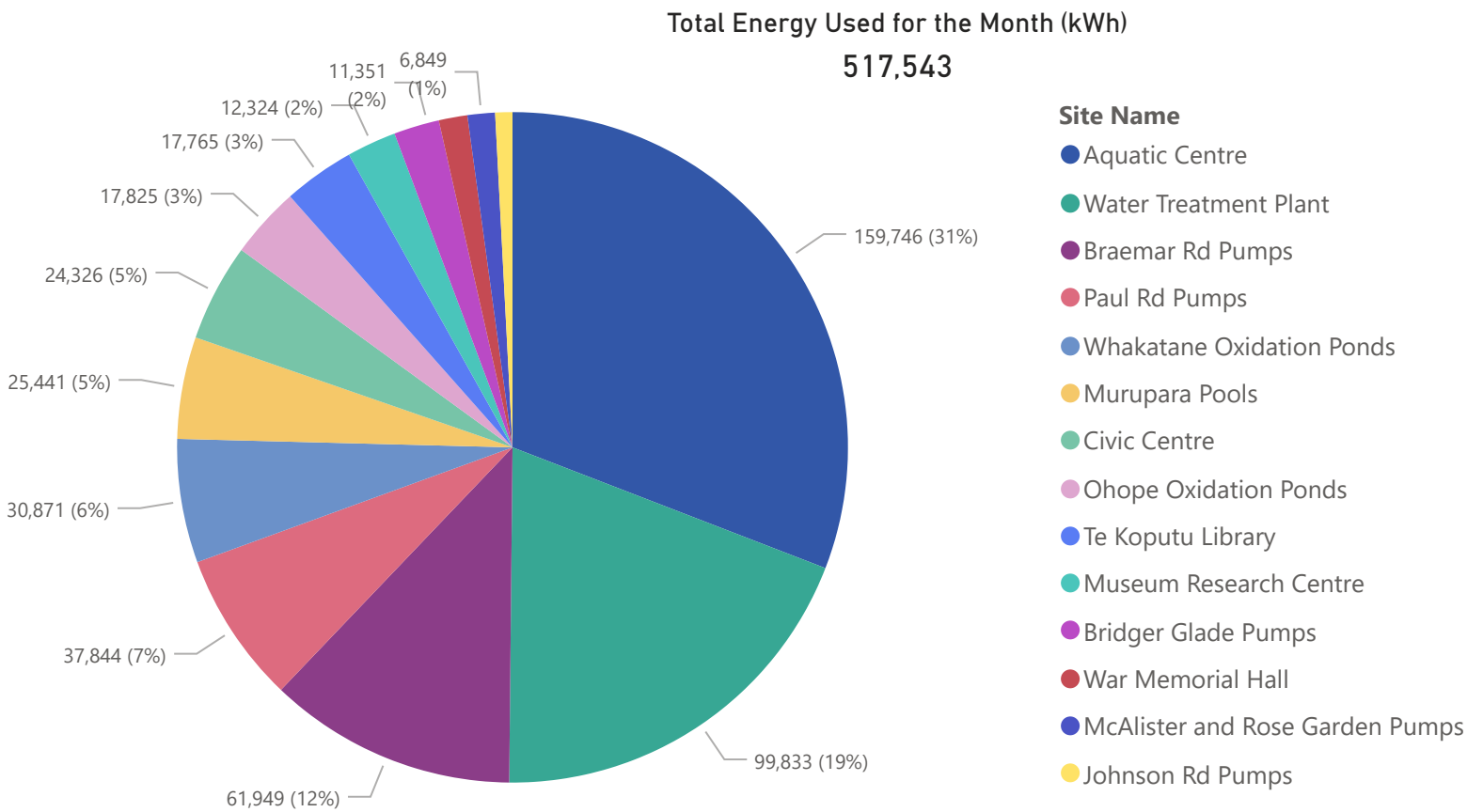


# Whakatane District Council

## Summary

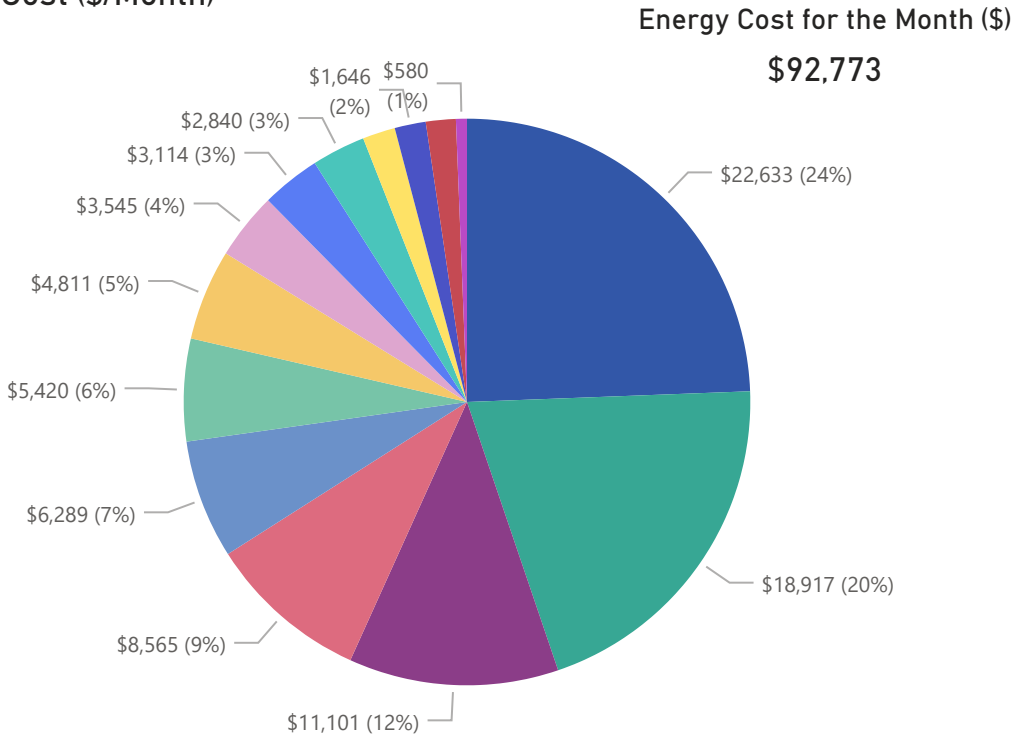
<p><b>\$1,586</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>30,650</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>6%</b></p> <p>Elec. Savings (%)</p>	<p><b>587,064</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>-5,666</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$89,963</b></p> <p>R12M Energy Cost Savings</p>	<p><b>-40,791</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>-164%</b></p> <p>Gas. Savings (%)</p>	<p><b>-236,658</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>1,010</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Total Energy (kWh/Month)



# Whakatane District Council Summary

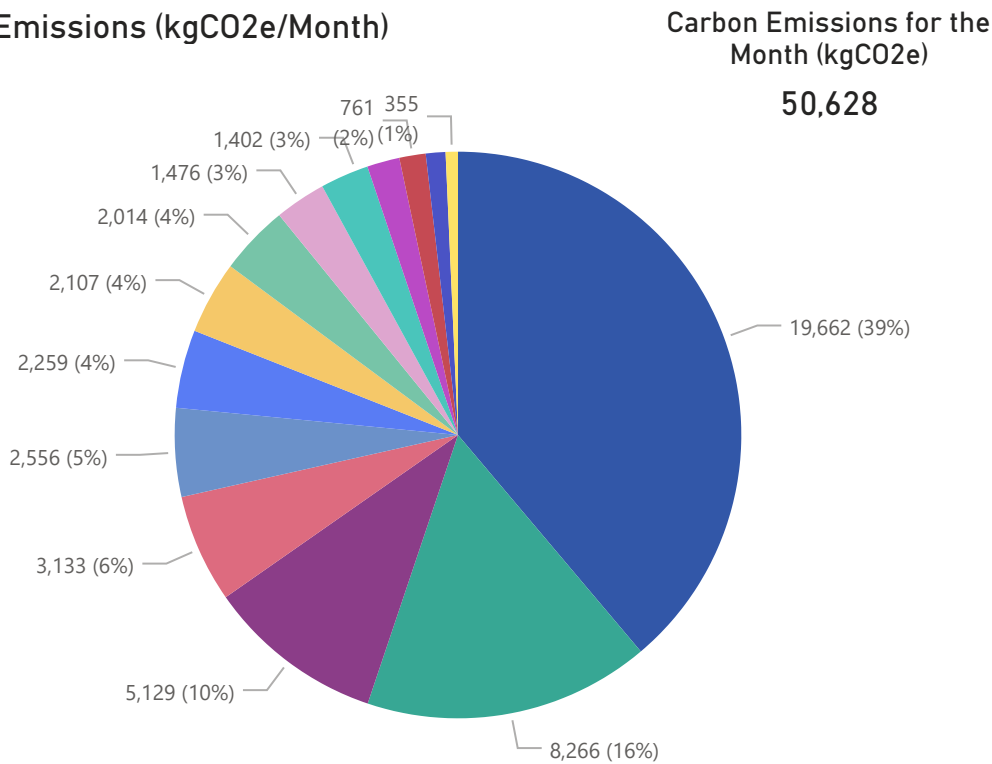
## Energy Cost (\$/Month)



### Site Name

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

## Carbon Emissions (kgCO2e/Month)



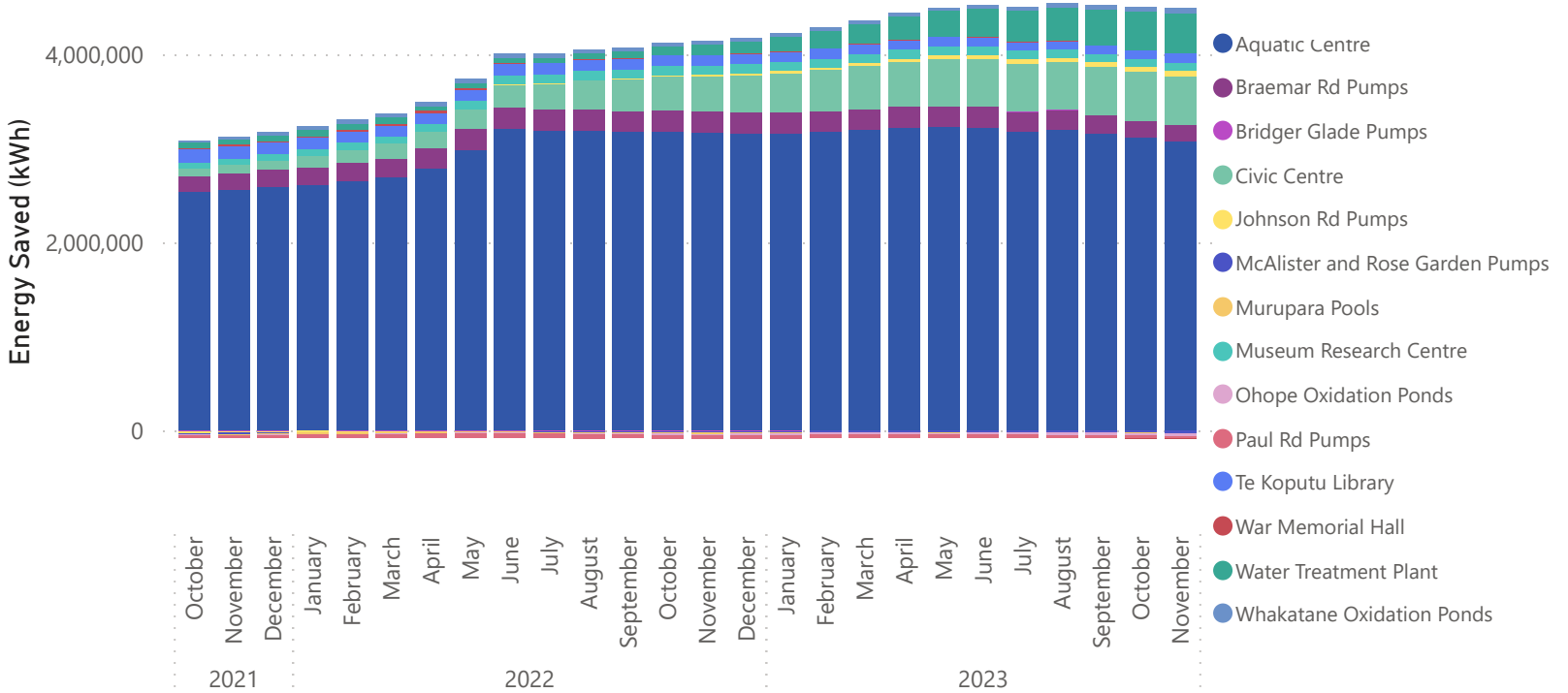
### Site Name

- Aquatic Centre
- Water Treatment Plant
- Braemar Rd Pumps
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- Museum Research Centre
- Bridger Glade Pumps
- War Memorial Hall
- McAlister and Rose Garden Pumps
- Johnson Rd Pumps

# Whakatane District Council

## Summary

Cumulative Energy Savings (kWh)



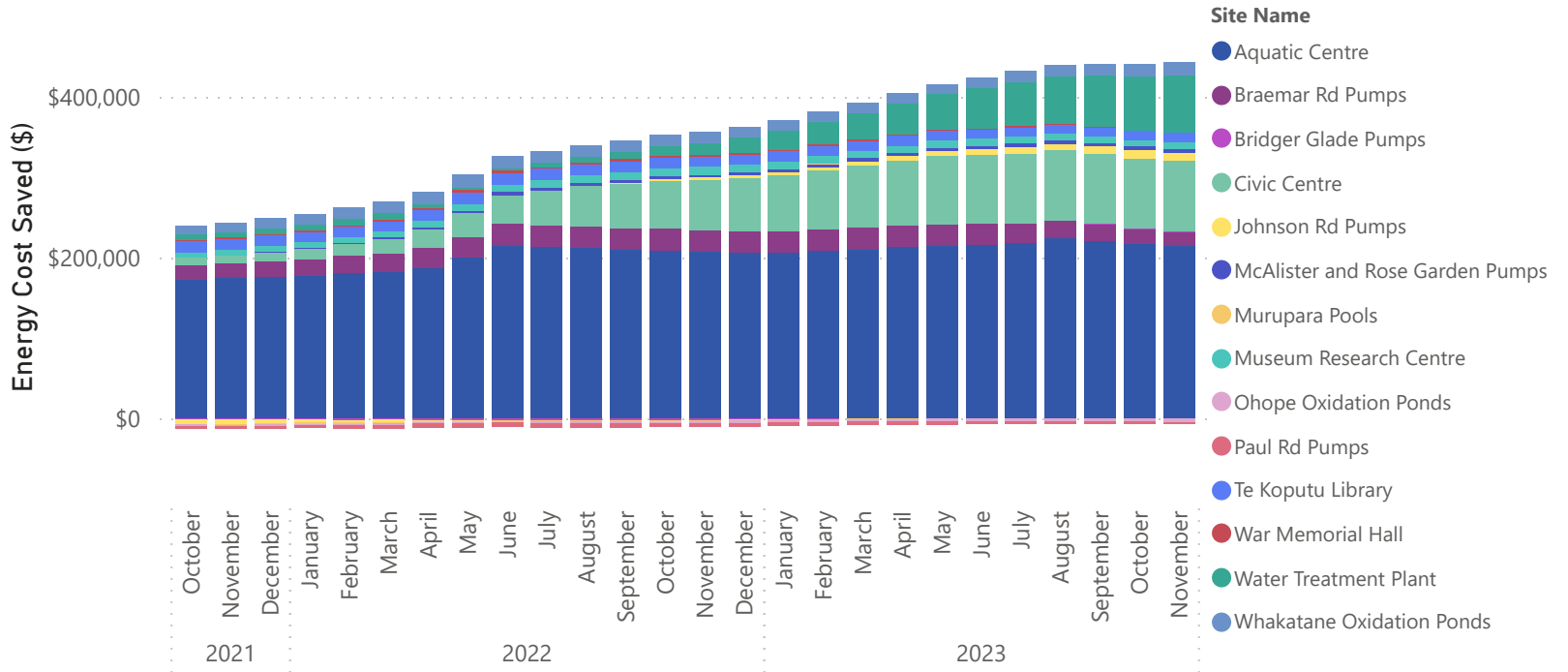
Note, cumulative savings are calculated starting July 2018

**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

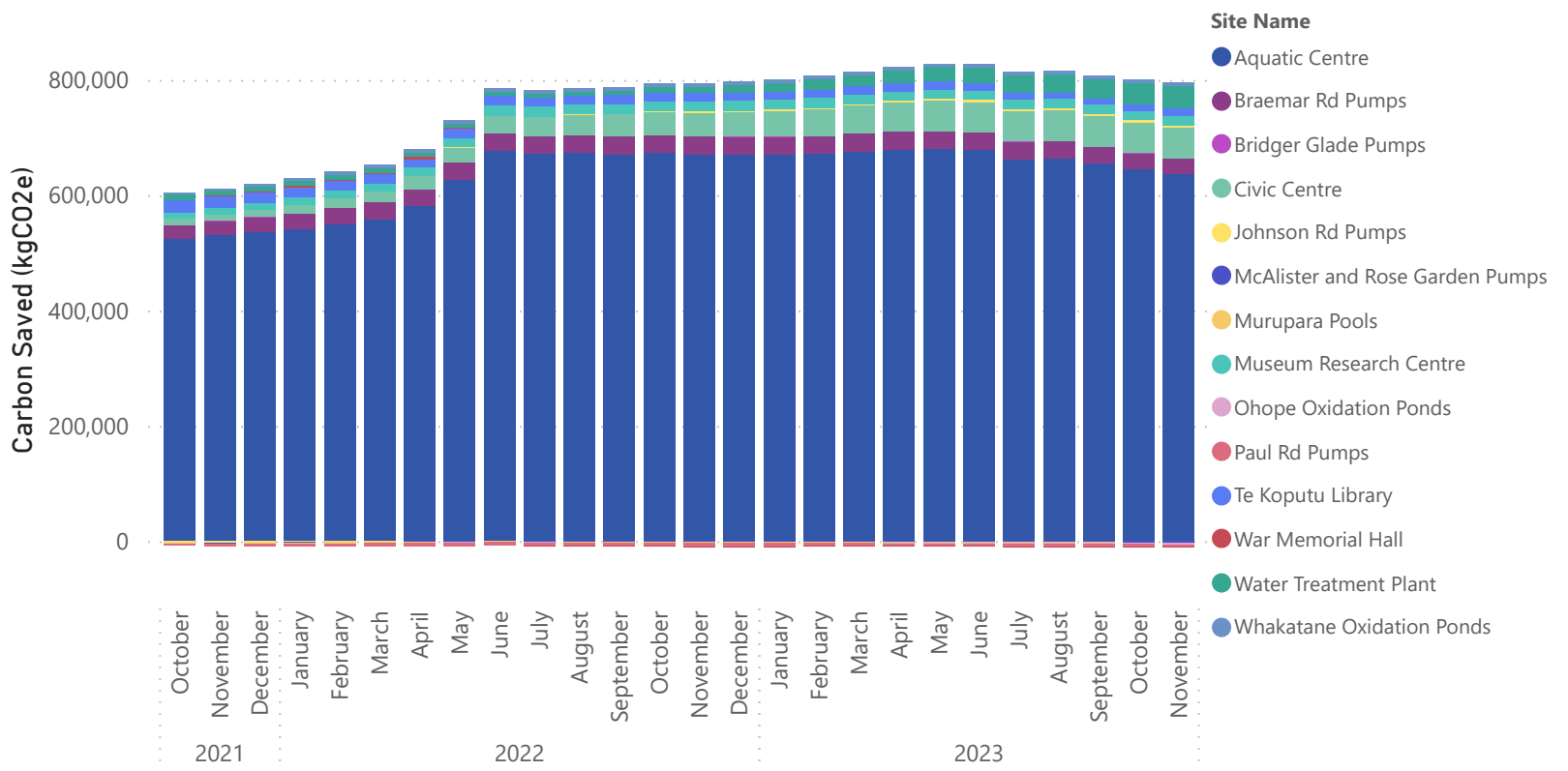
## Summary

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

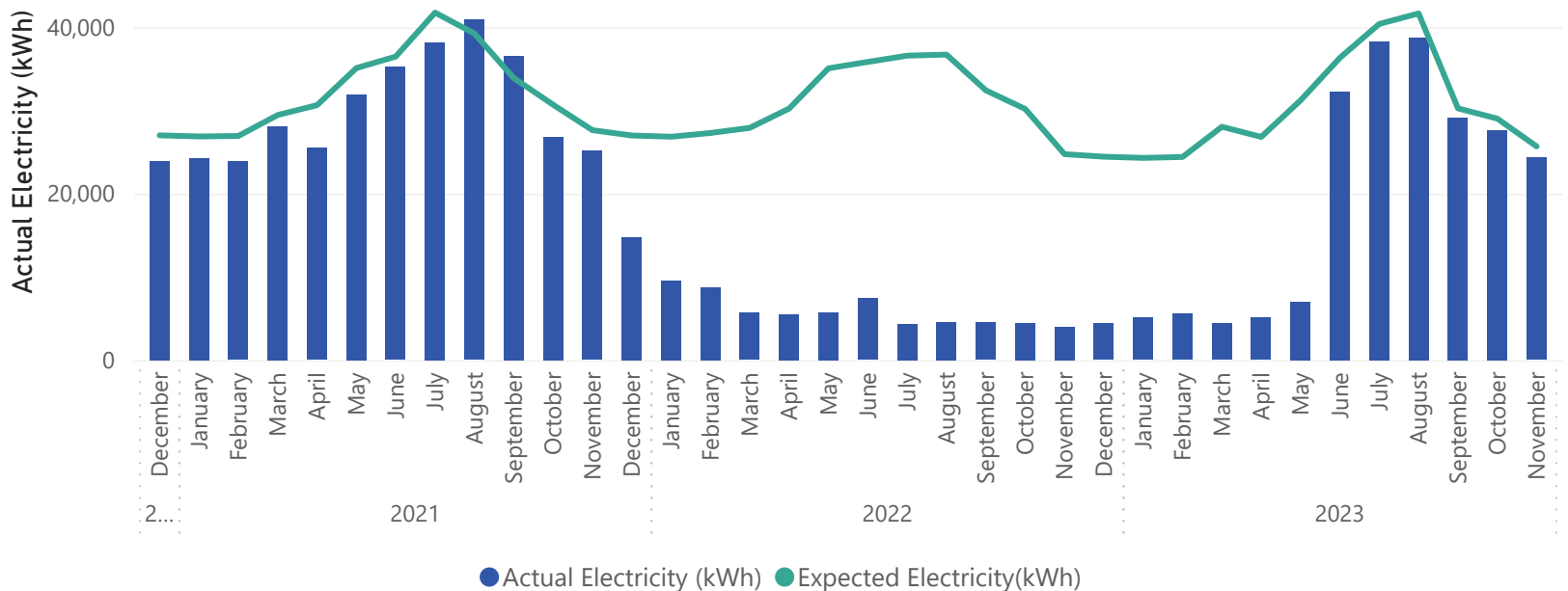
<p><b>\$206</b> Monthly Energy Cost Savings</p>	<p><b>1,344</b> Elec. Savings (kWh/mo)</p>	<p><b>5%</b> Elec. Savings (%)</p>	<p><b>140,691</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>111</b> CO2e Savings (kg/mo)</p>
<p><b>\$24,544</b> R12M Energy Cost Savings</p>				<p><b>11,649</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

The Civic Centre has returned to normal operation after ongoing refurbishments. It can be seen from TOU electricity afterhours has stabilised to approximately 20 kW in November. Afterhours electricity in October ranged from 13-57 kW. Demand for the Civic Centre rises sharply from 5:00am and is likely attributed to HVAC. With most staff starting from 8:00am onwards, HVAC is running for approximately 3 hours with minimal occupancy. HVAC start should be delayed as long as possible in the morning, while still achieving a comfortable temperature by the time staff arrive. 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.

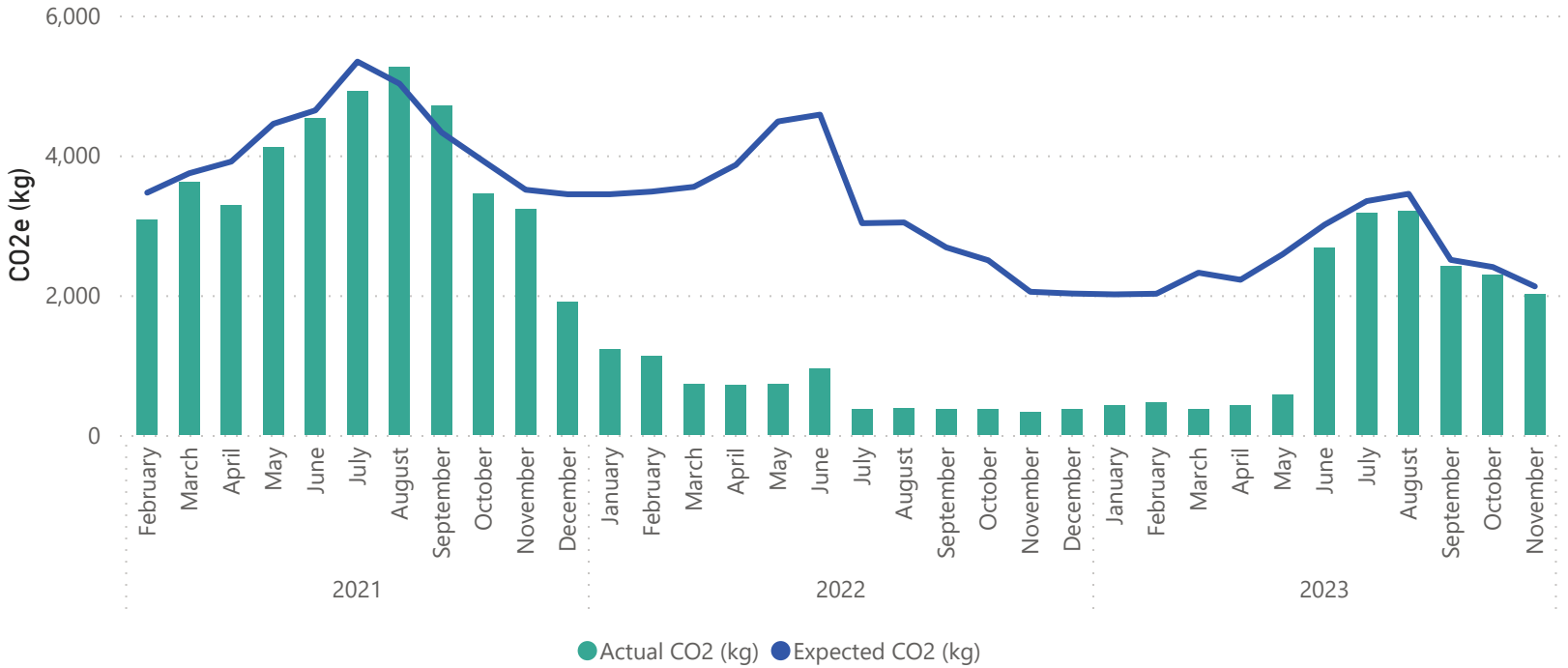
Civic Centre Electricity Use Compared to Baseline (kWh)



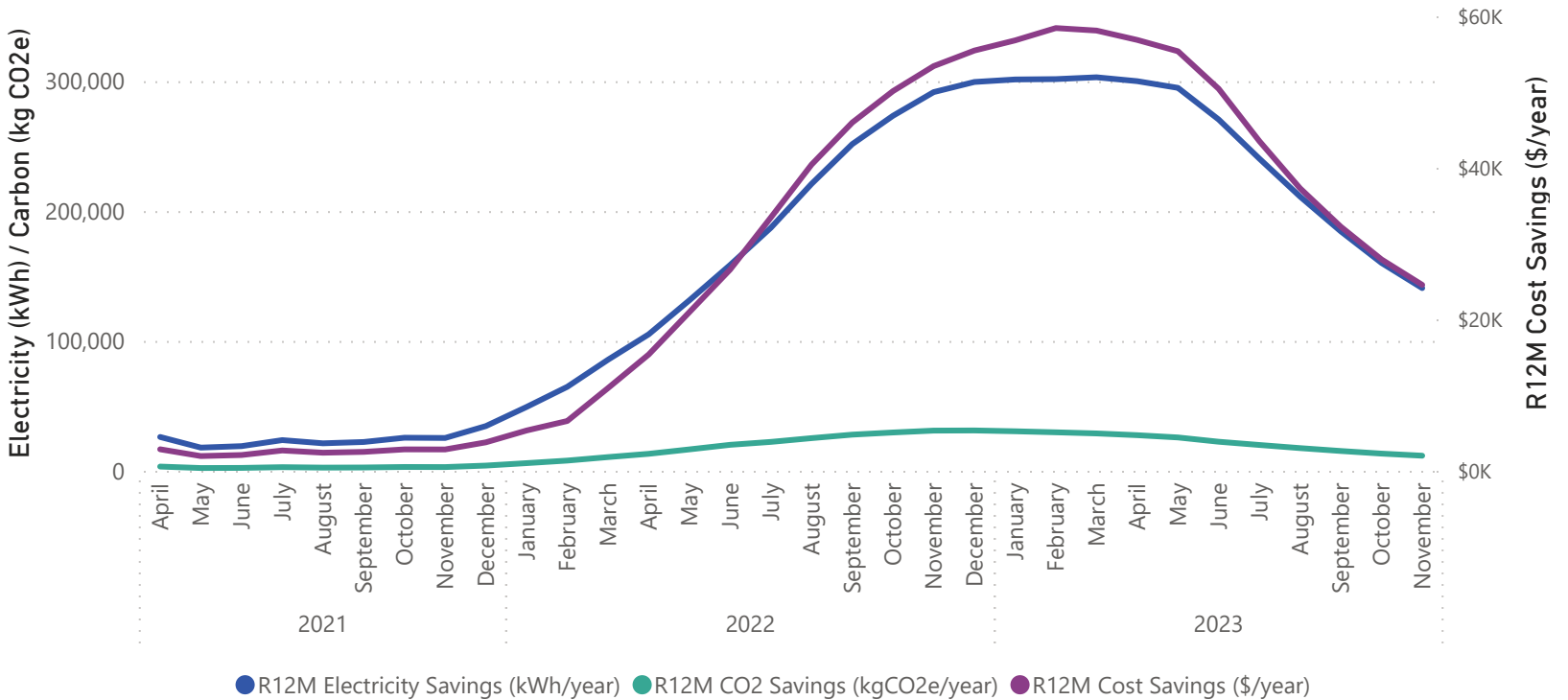
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council Civic Centre

### Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



### Civic Centre Rolling 12 Month Savings

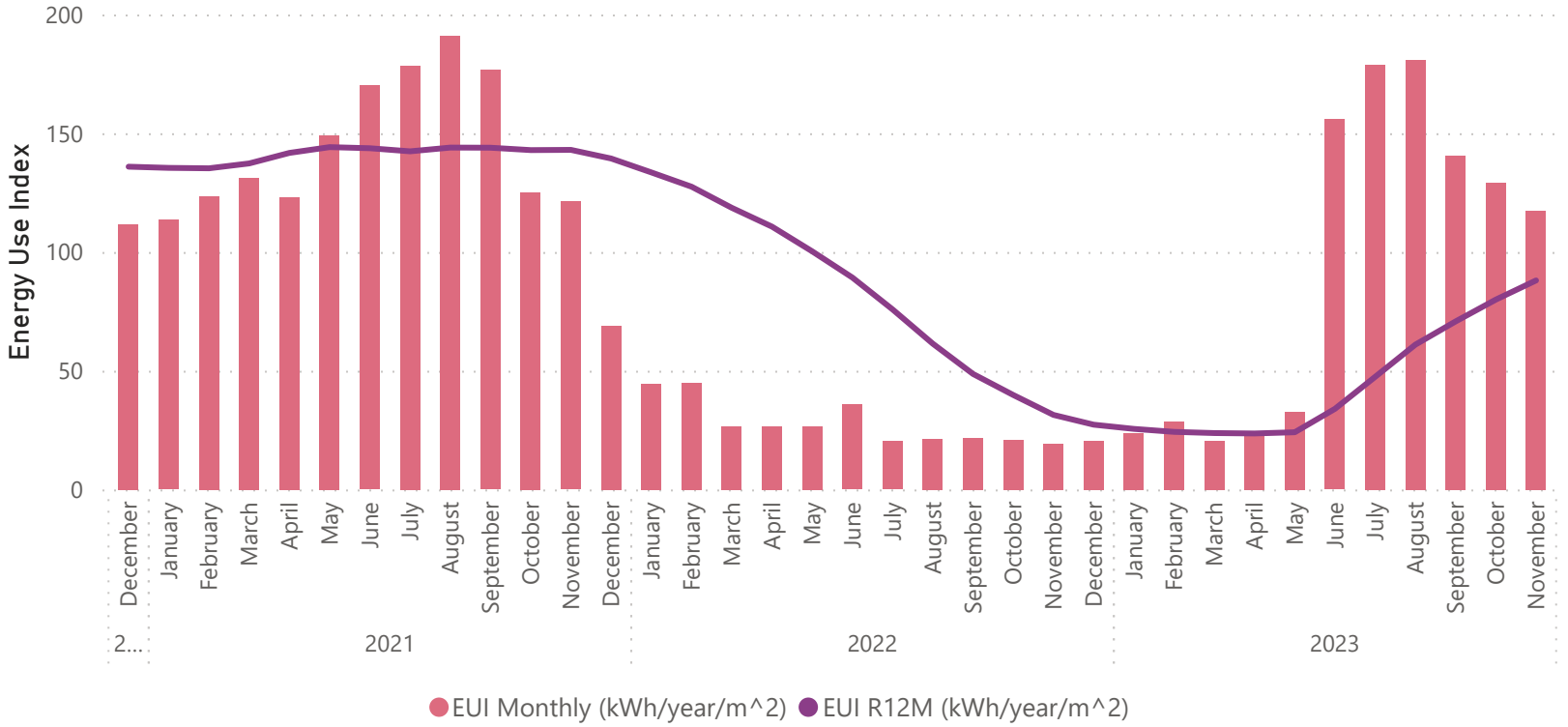


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council

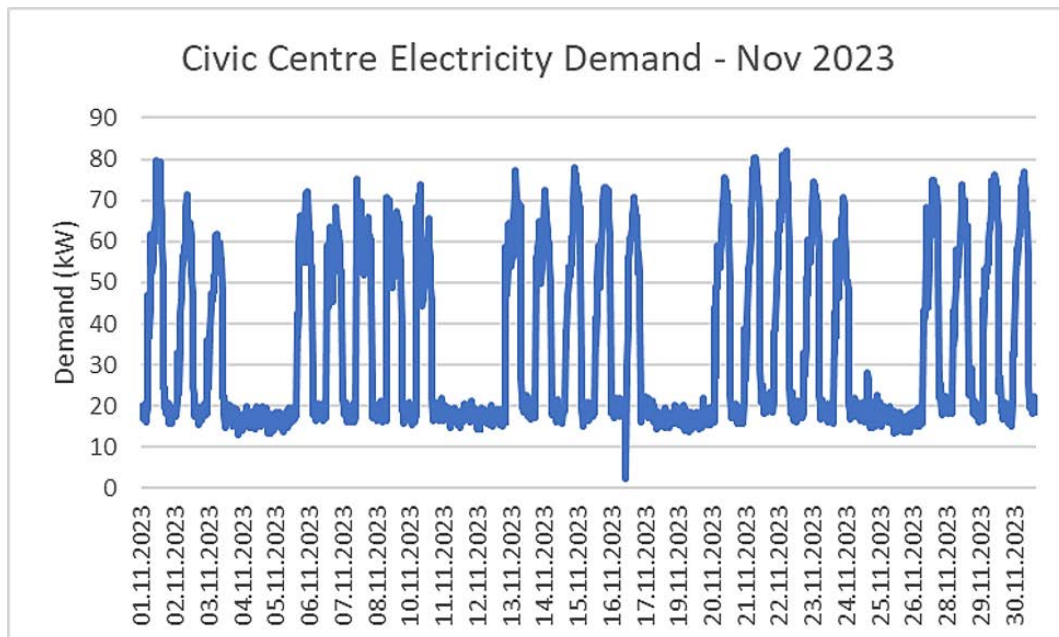
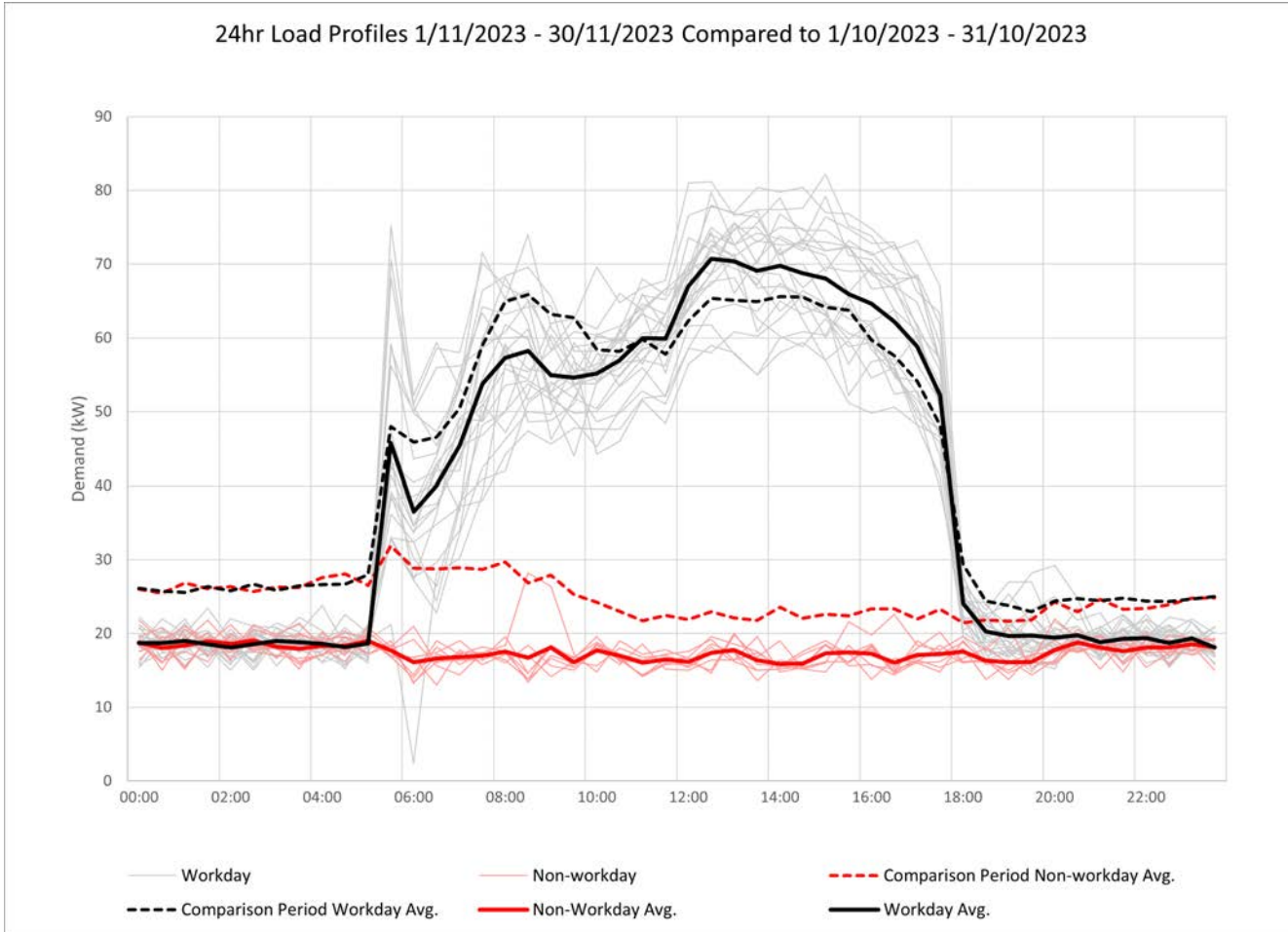
## Civic Centre

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



**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

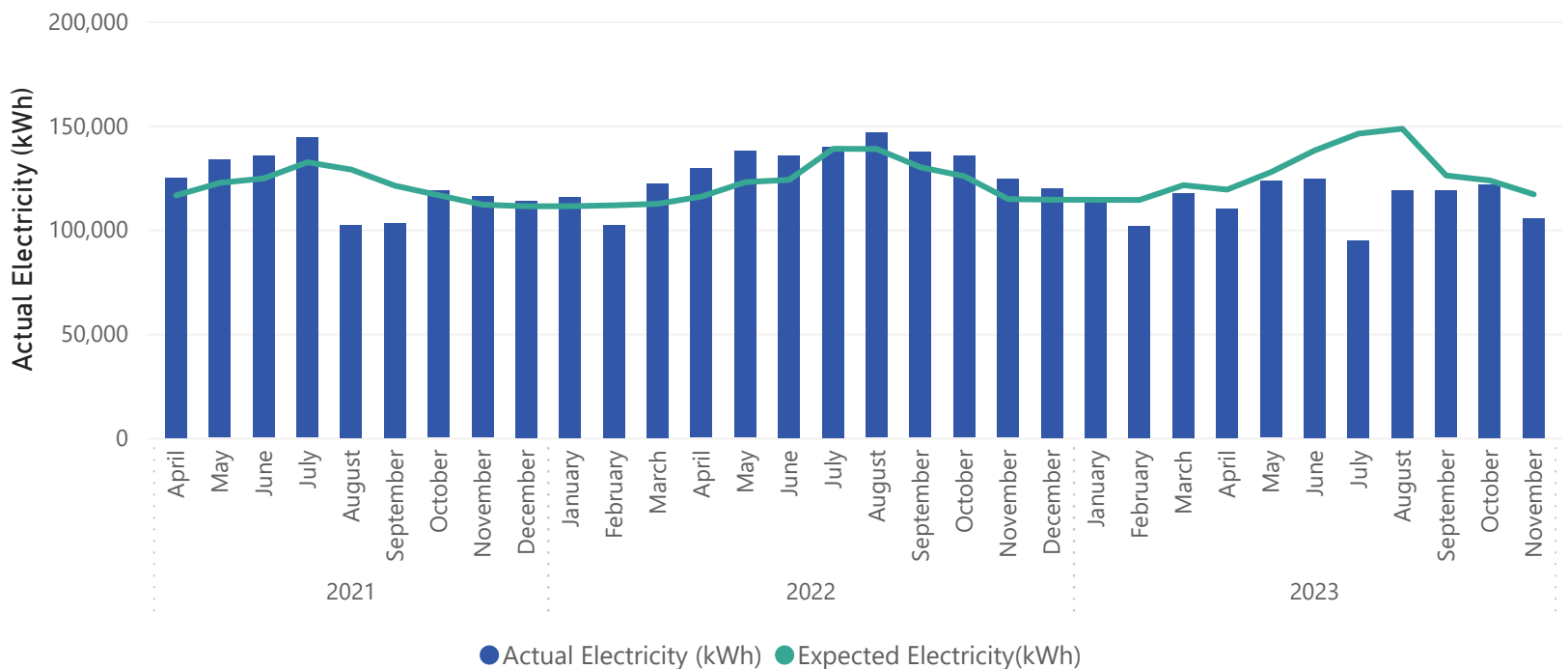
## Aquatic Centre

<p><b>-\$2,245</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>11,494</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>10%</b></p> <p>Elec. Savings (%)</p>	<p><b>138,436</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>-8,372</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$7,402</b></p> <p>R12M Energy Cost Savings</p>	<p><b>-46,358</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>-578%</b></p> <p>Gas. Savings (%)</p>	<p><b>-226,331</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>-34,059</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Electricity use was less than baseline in November 2023, gas use was more than six times greater 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 close to average over the past 12 months, with more gas being used, the EUI is expected to be higher than typical, gas boilers use energy less efficiently compared to heat pumps.

Aquatic Centre Electricity Use Compared to Baseline (kWh)

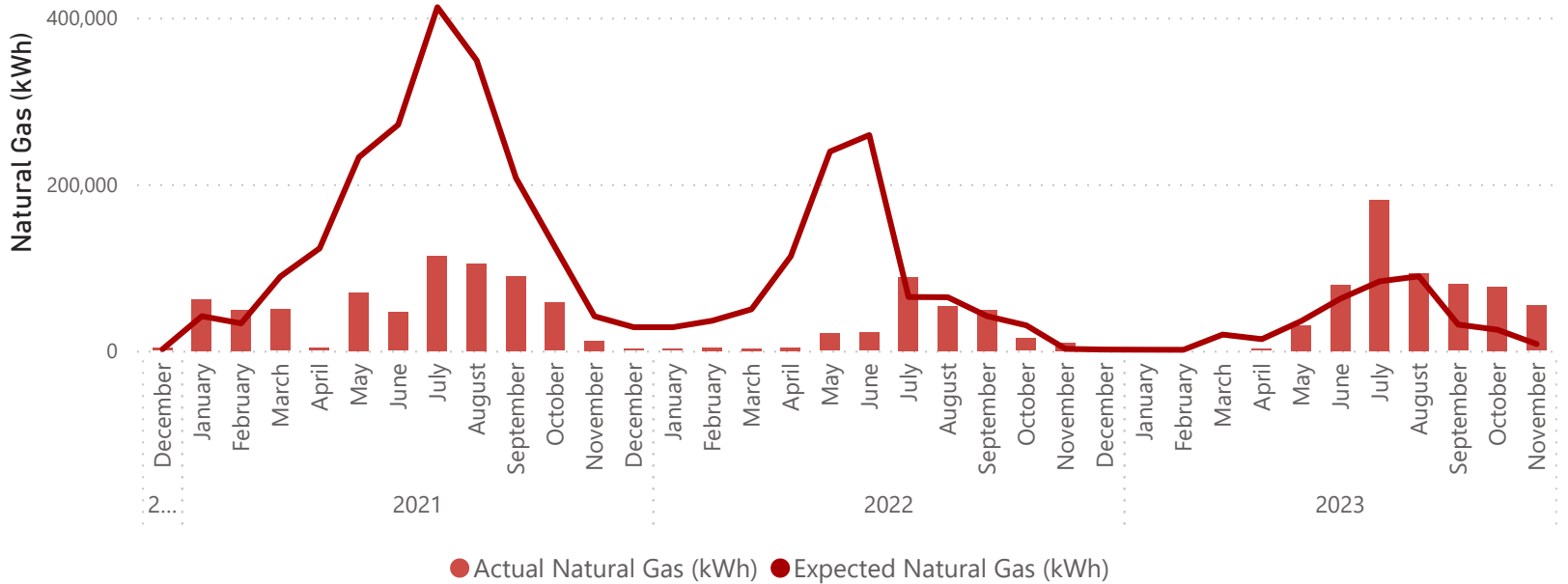


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

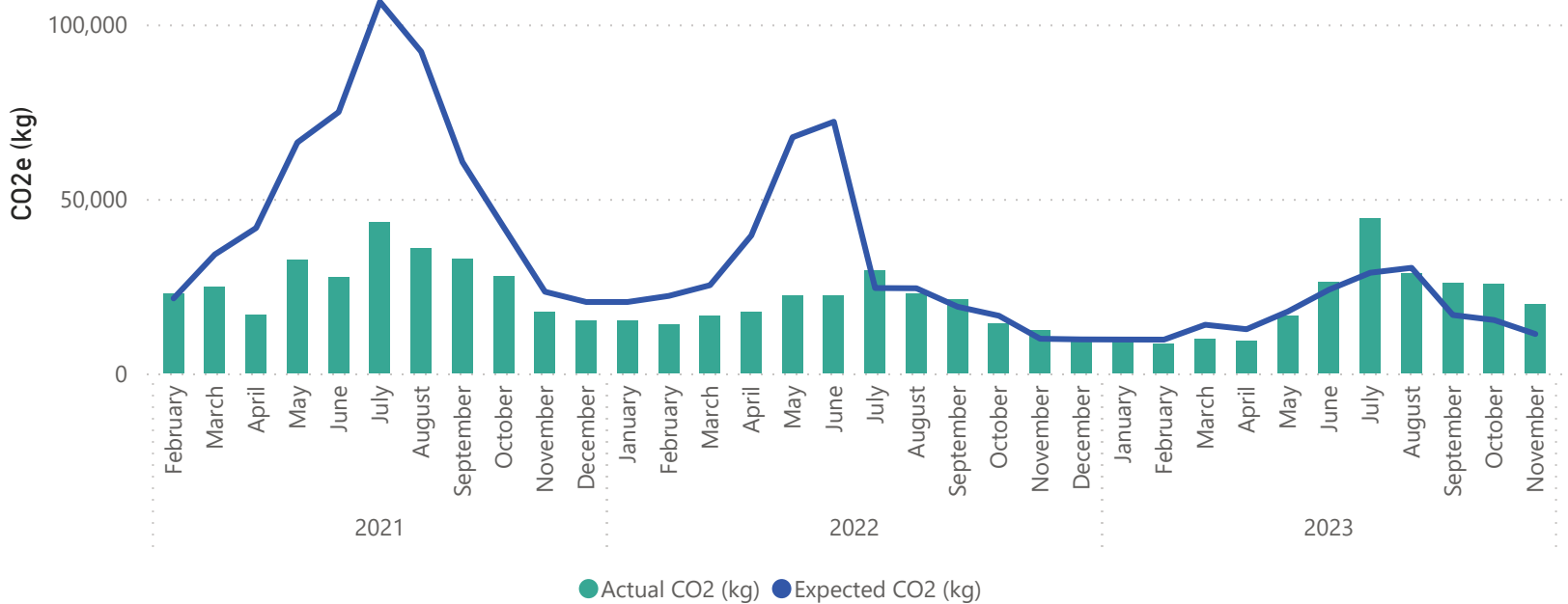
# Whakatane District Council

## Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

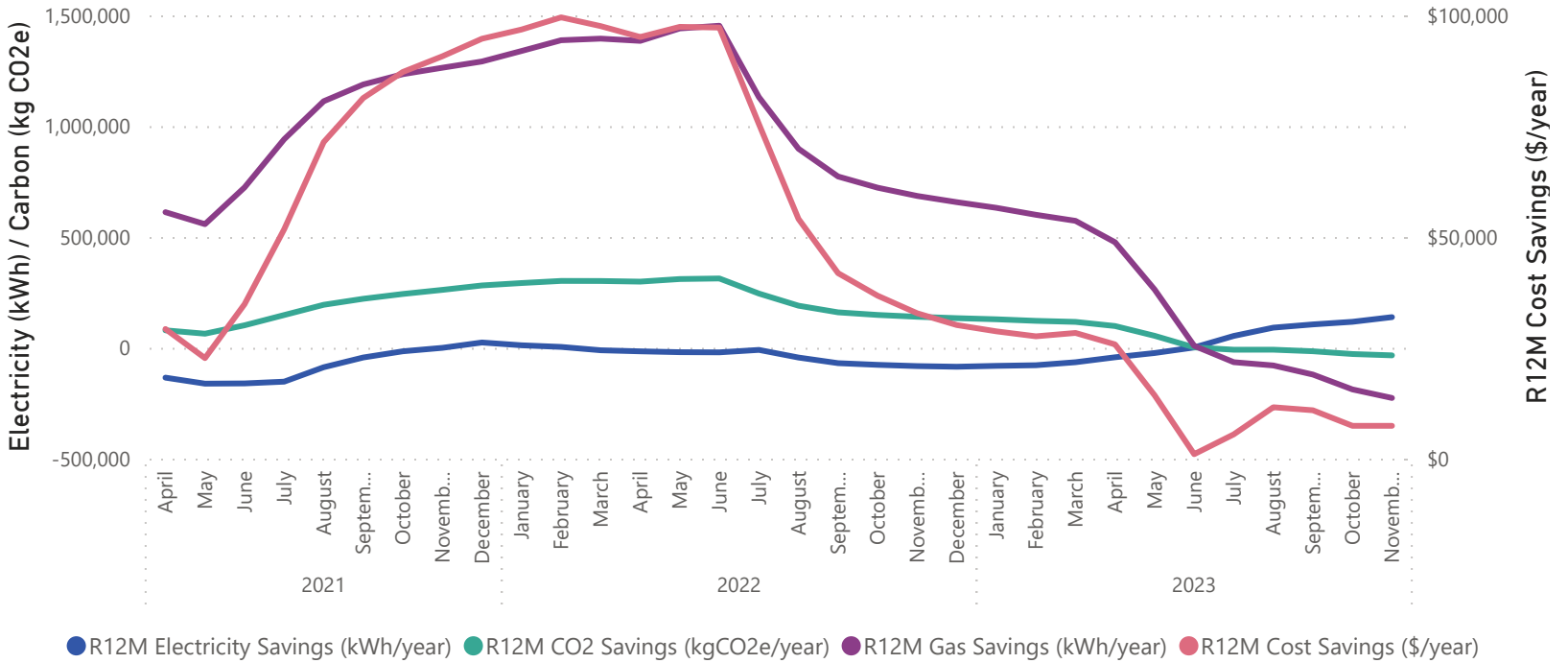


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

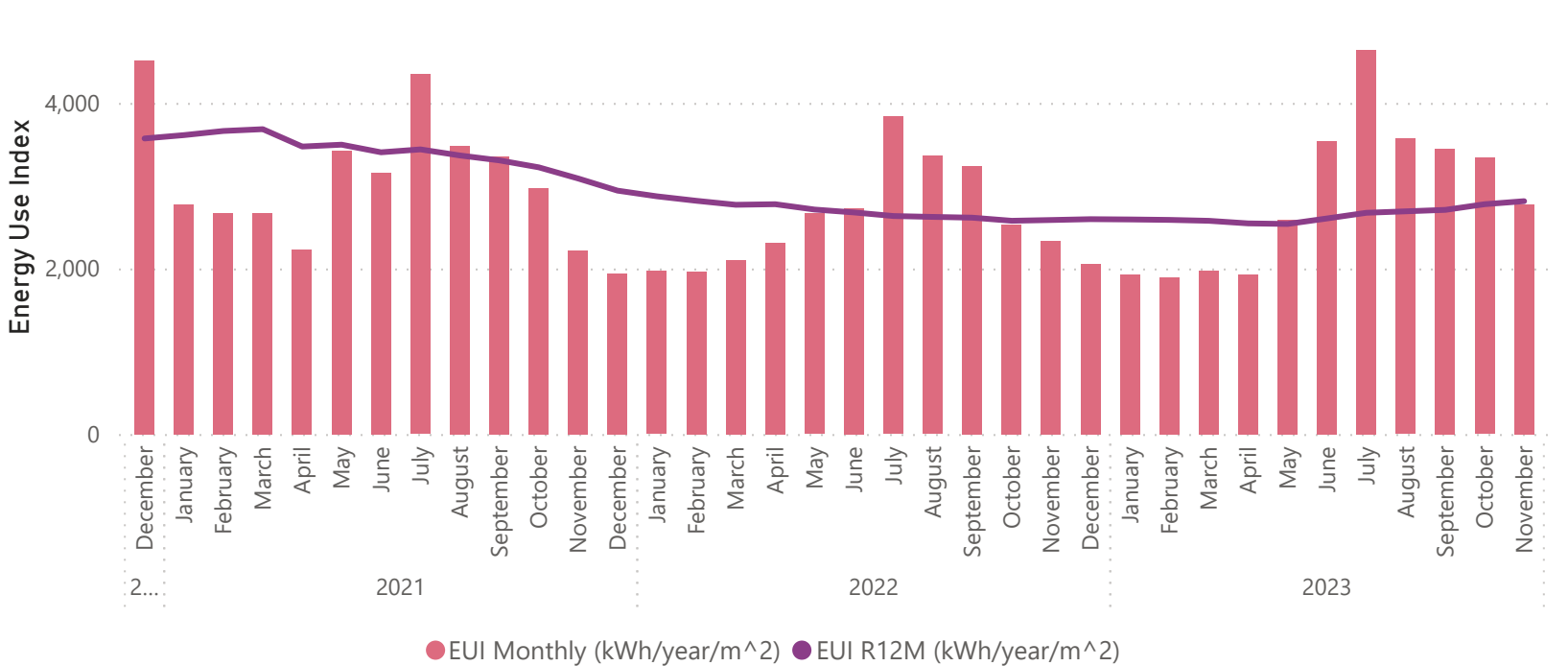
# Whakatane District Council

## 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

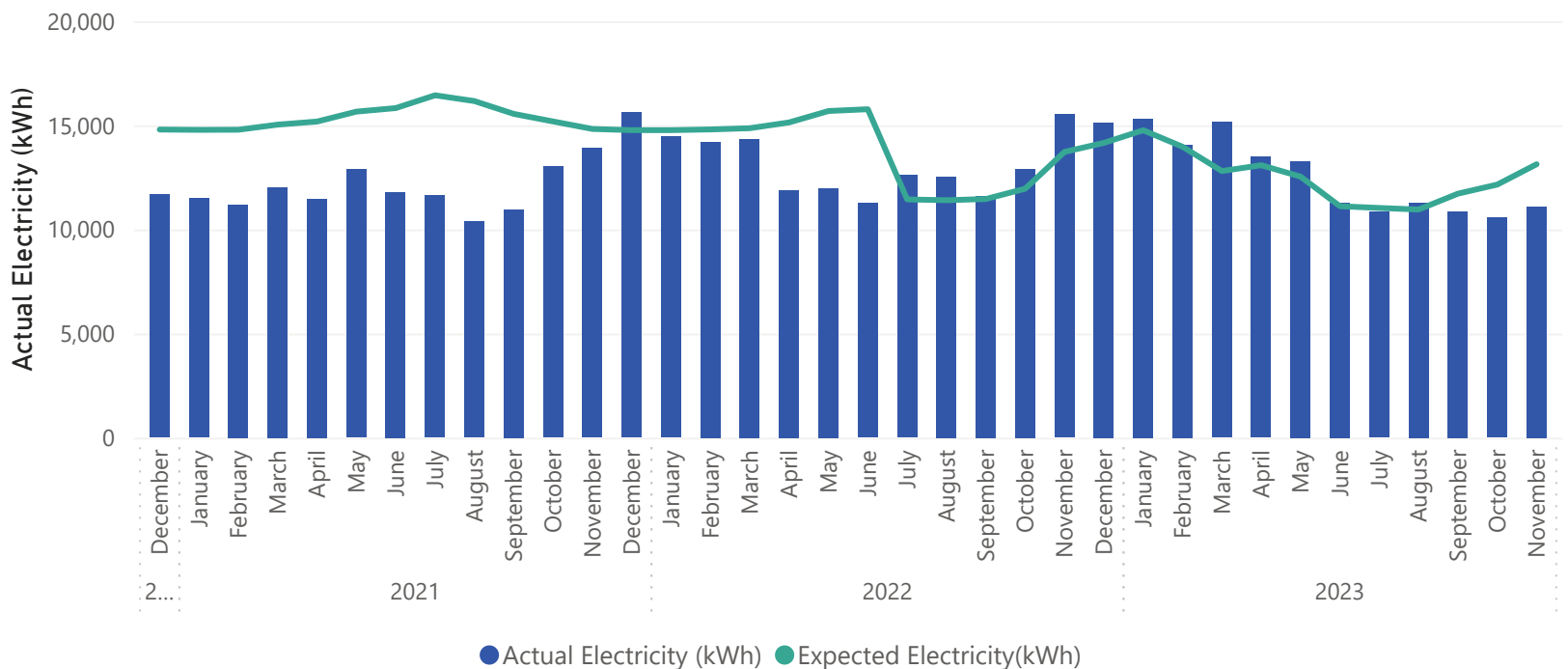
<p><b>\$767</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>2,026</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>15%</b></p> <p>Elec. Savings (%)</p>	<p><b>-913</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>1,248</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>-\$679</b></p> <p>R12M Energy Cost Savings</p>	<p><b>5,371</b></p> <p>Gas. Savings (kWh/mo)</p>	<p><b>45%</b></p> <p>Gas. Savings (%)</p>	<p><b>-5,784</b></p> <p>R12M Gas Savings (kWh/yr)</p>	<p><b>-1,239</b></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 savings have increased over the past four months.

The Library's EUI for the month is 27% less than average compared to the last 12 months, which is great.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

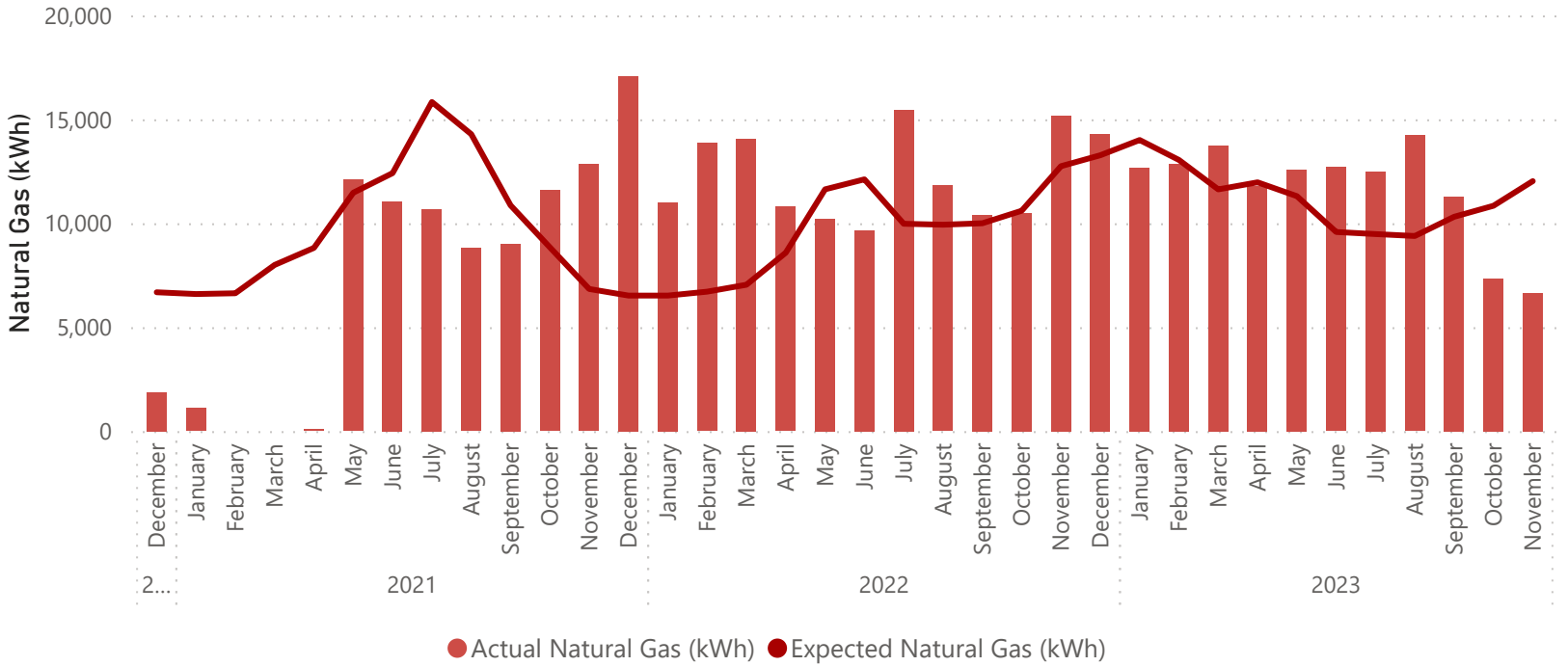


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

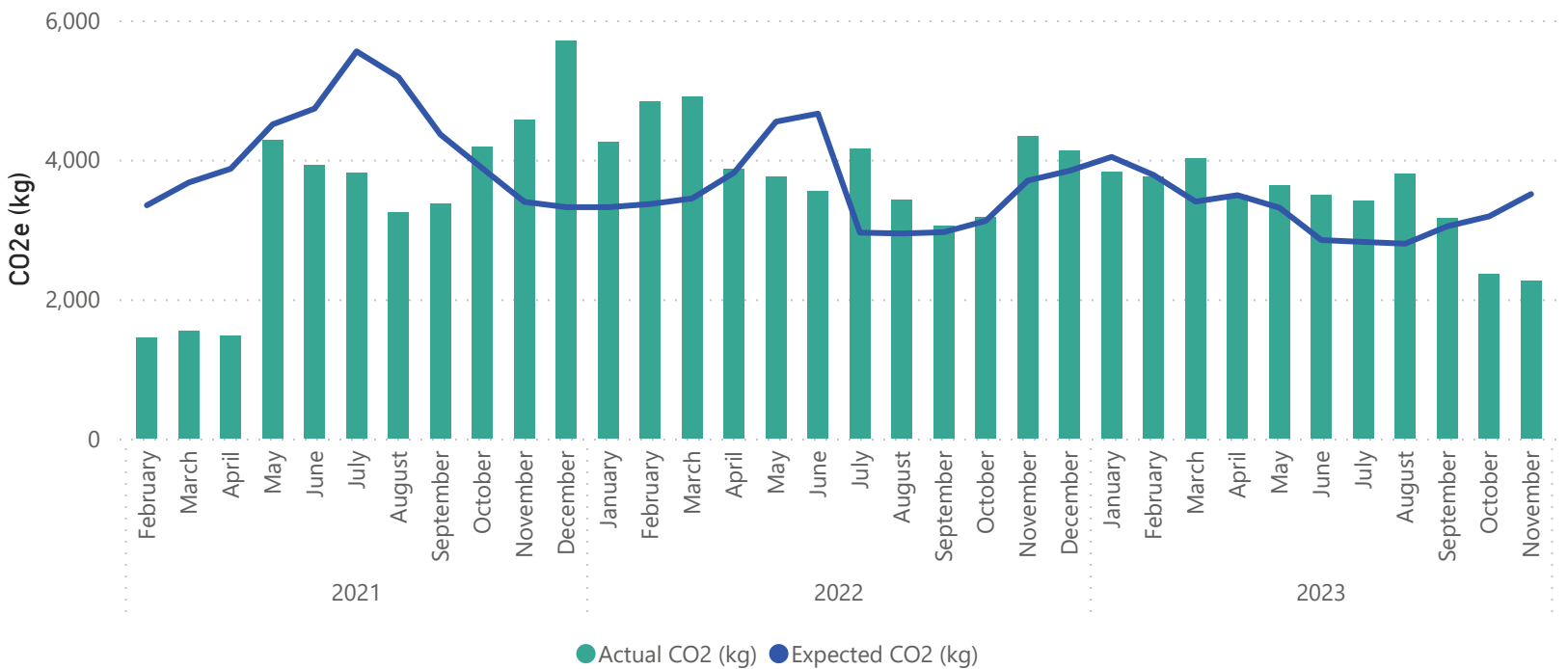
# Whakatane District Council

## Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



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

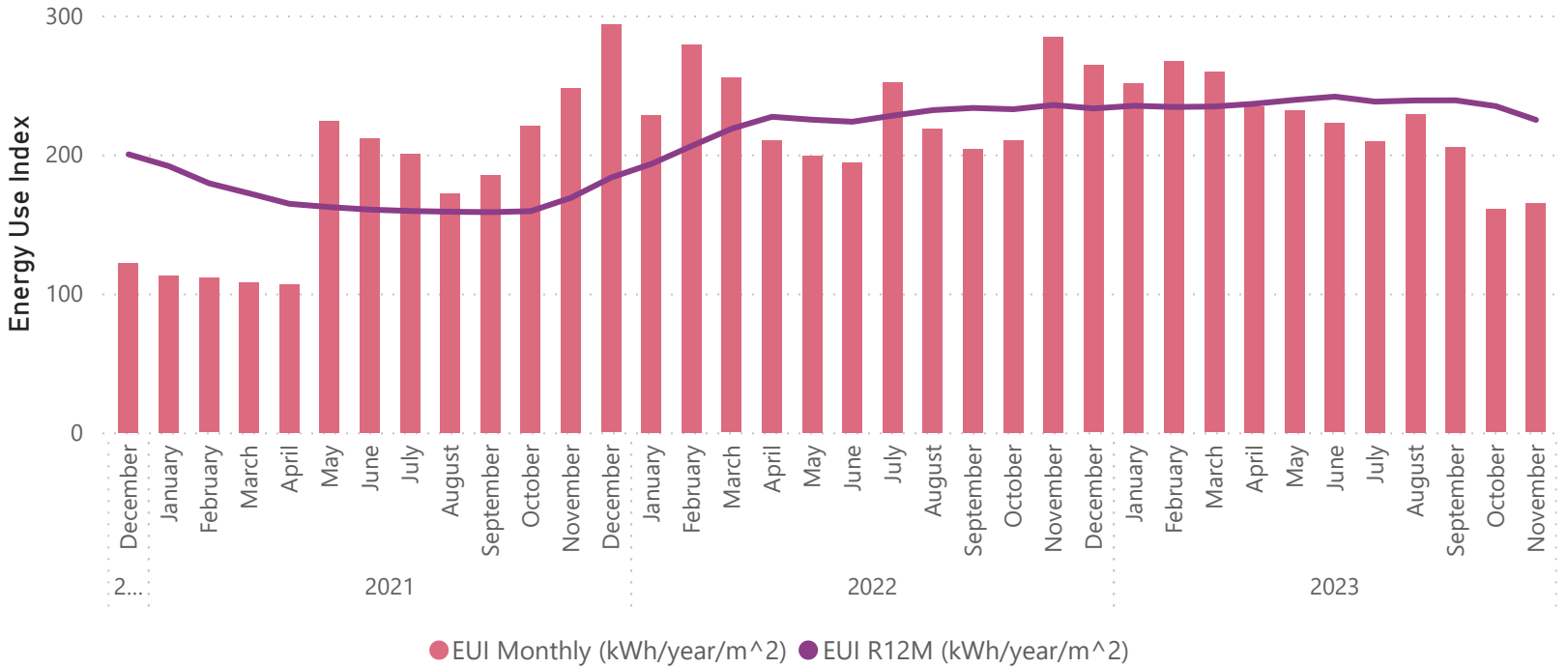


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

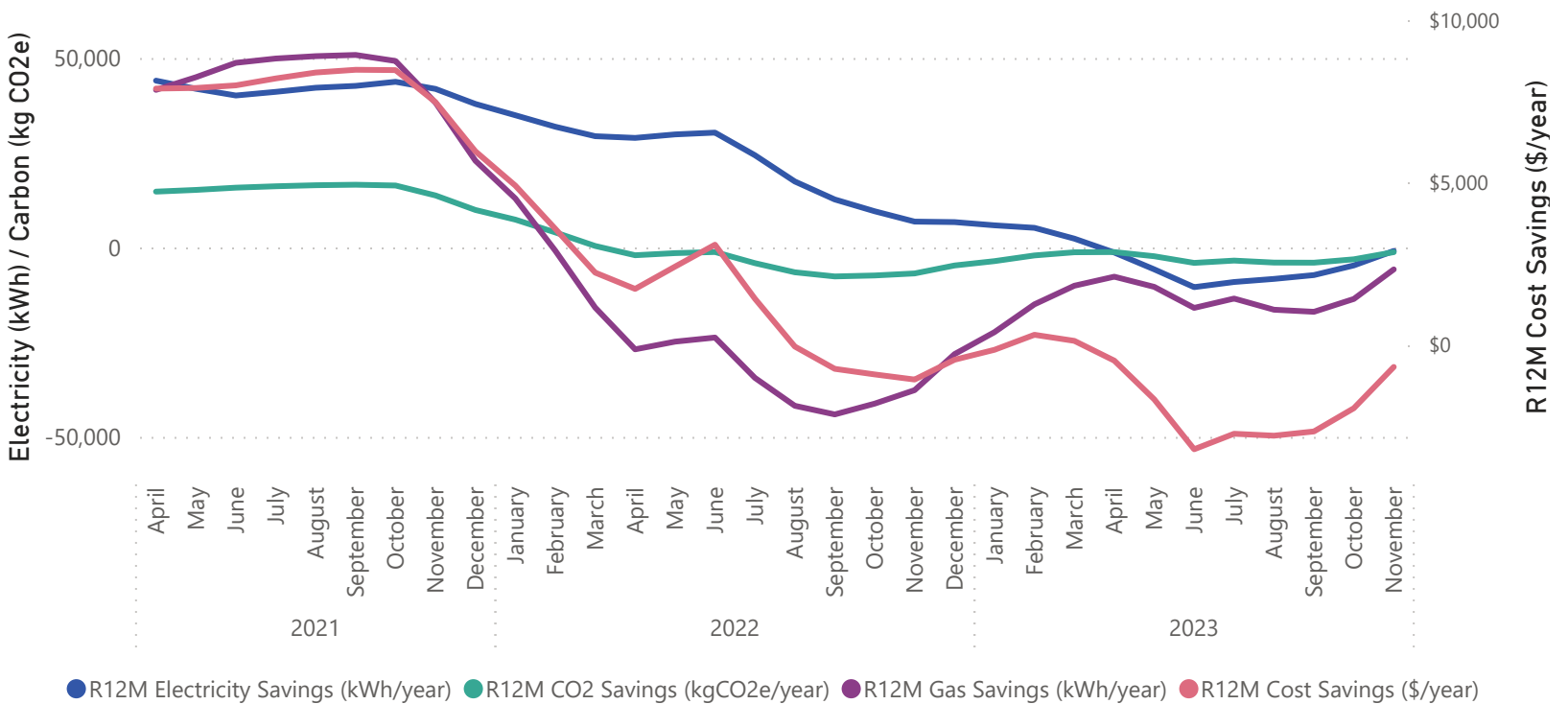
# Whakatane District Council

## 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

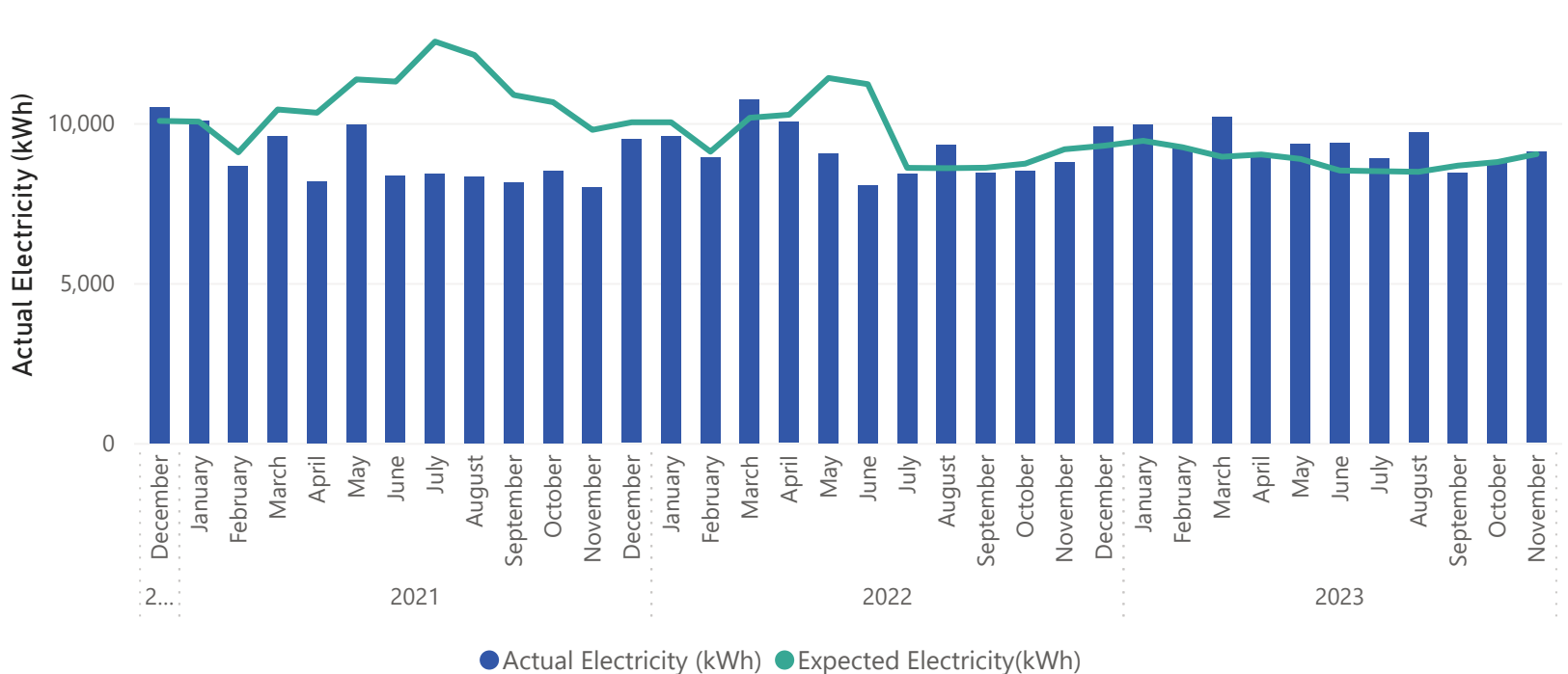
## Museum and Research Centre

<p><b>-\$46</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>-68</b>      <b>-1%</b>      <b>-5,180</b></p> <p>Elec. Savings (kWh/mo)    Elec. Savings (%)    R12M Electricity Savings (kWh/yr)</p>			<p><b>-89</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>-\$1,448</b></p> <p>R12M Energy Cost Savings</p>	<p><b>-415</b>      <b>-15%</b>      <b>-5,876</b></p> <p>Gas. Savings (kWh/mo)    Gas. Savings (%)    R12M Gas Savings (kWh/yr)</p>			<p><b>-1,611</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Natural gas use was significantly more than expected and electricity use was close to expected. With the exception of October 2023, natural gas has been more than expected since December 2022. November 2023 is the third month in a row where the EUI was less than average compared to the last 12 months, which is good.

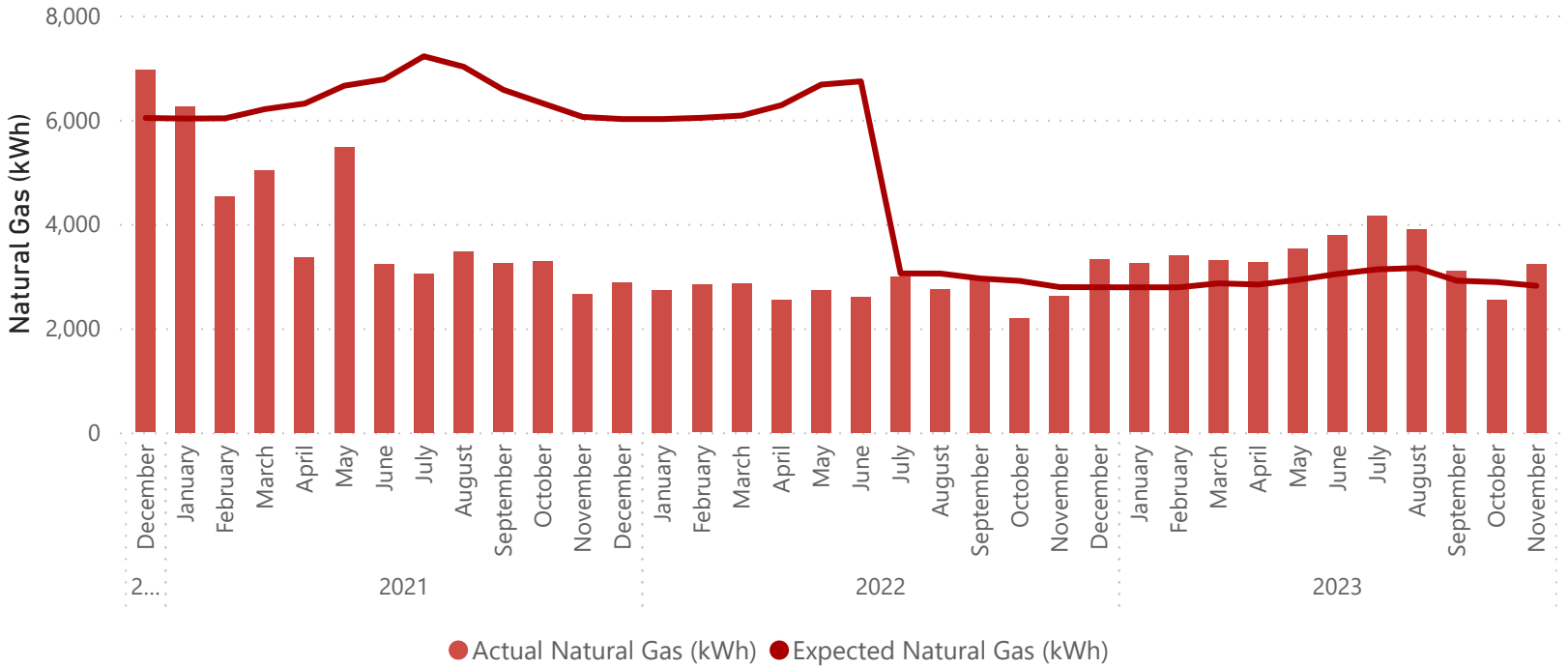
Museum Research Centre Electricity Use Compared to Baseline (kWh)



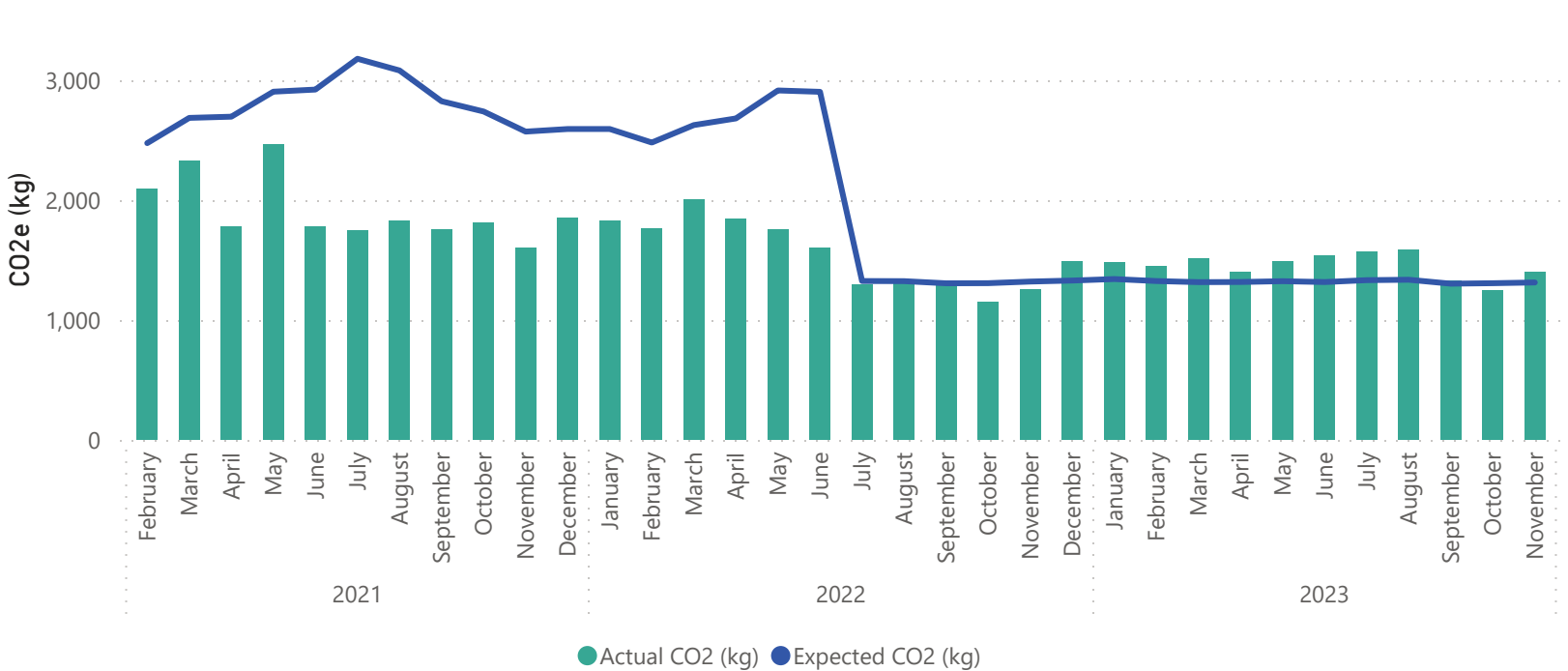
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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)

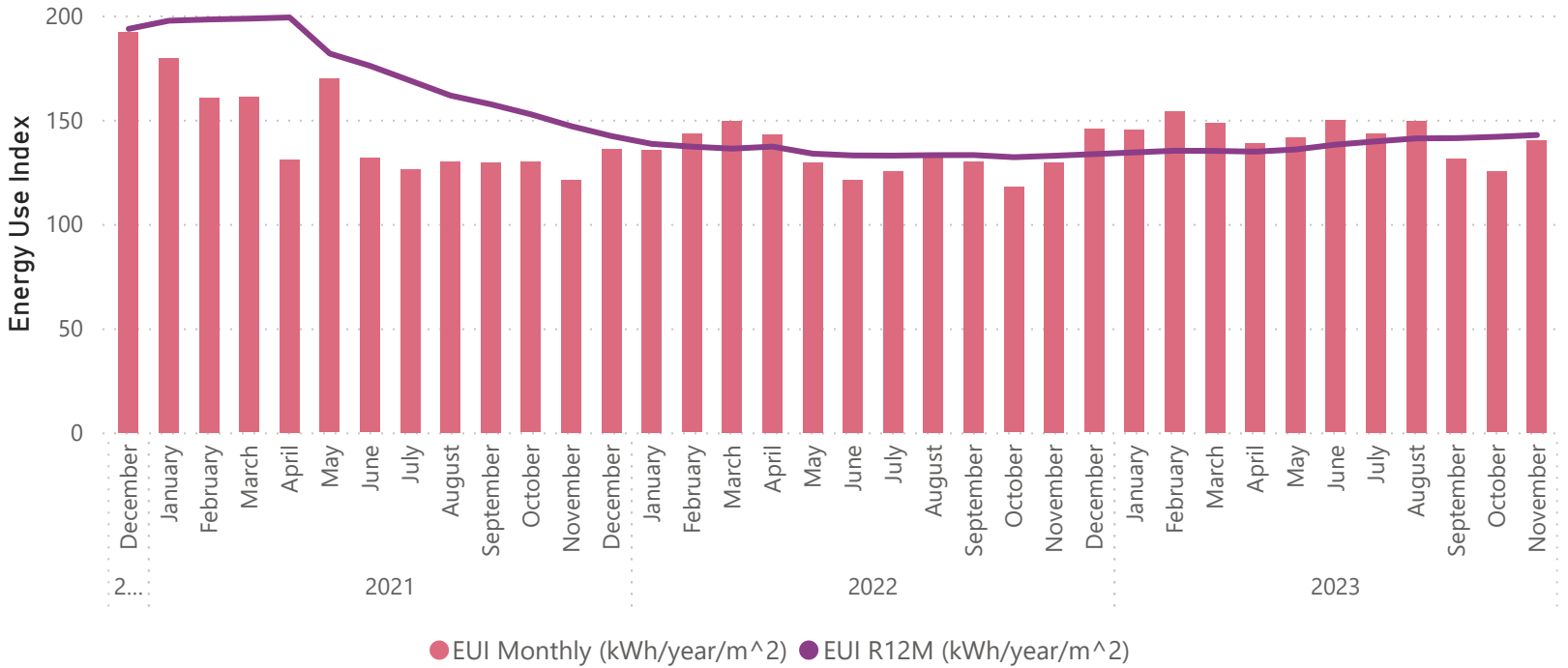


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

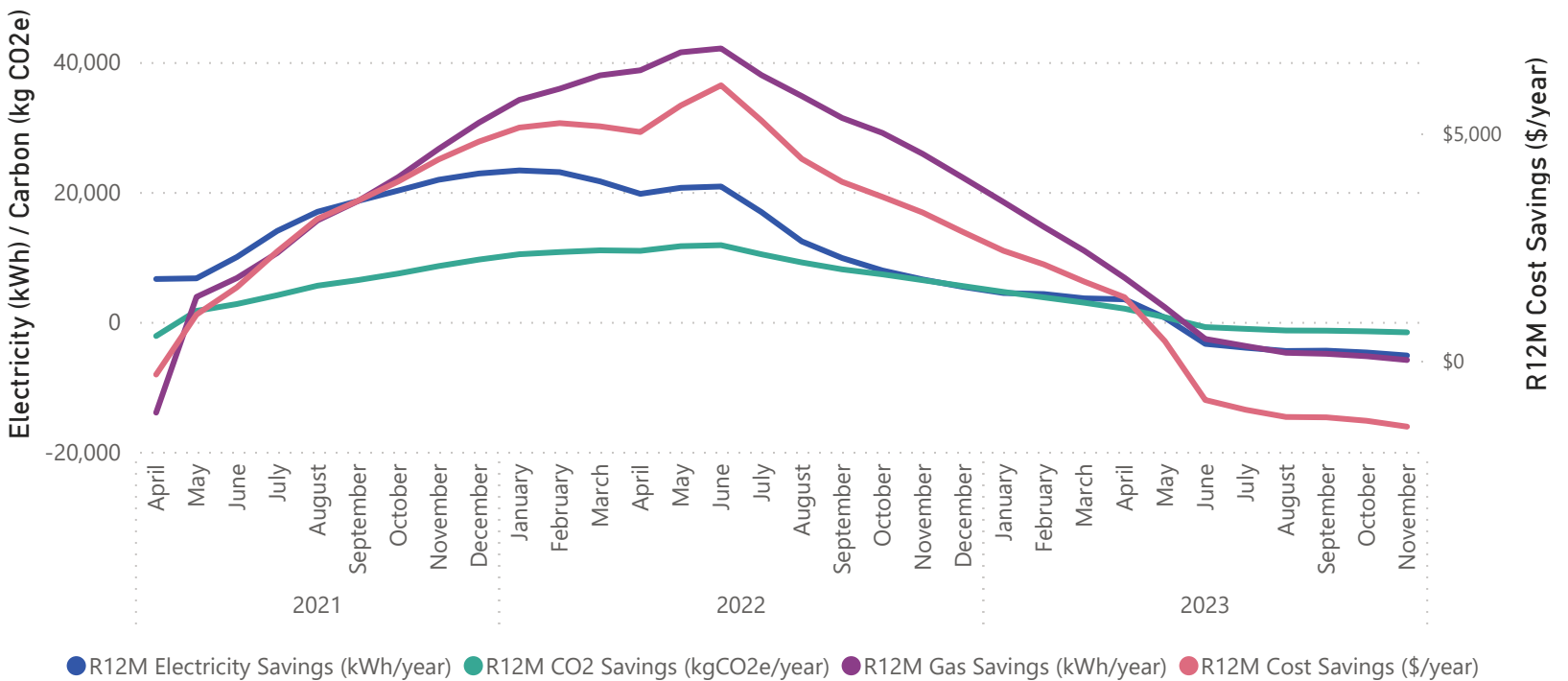


# Whakatane District Council Museum and Research Centre

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

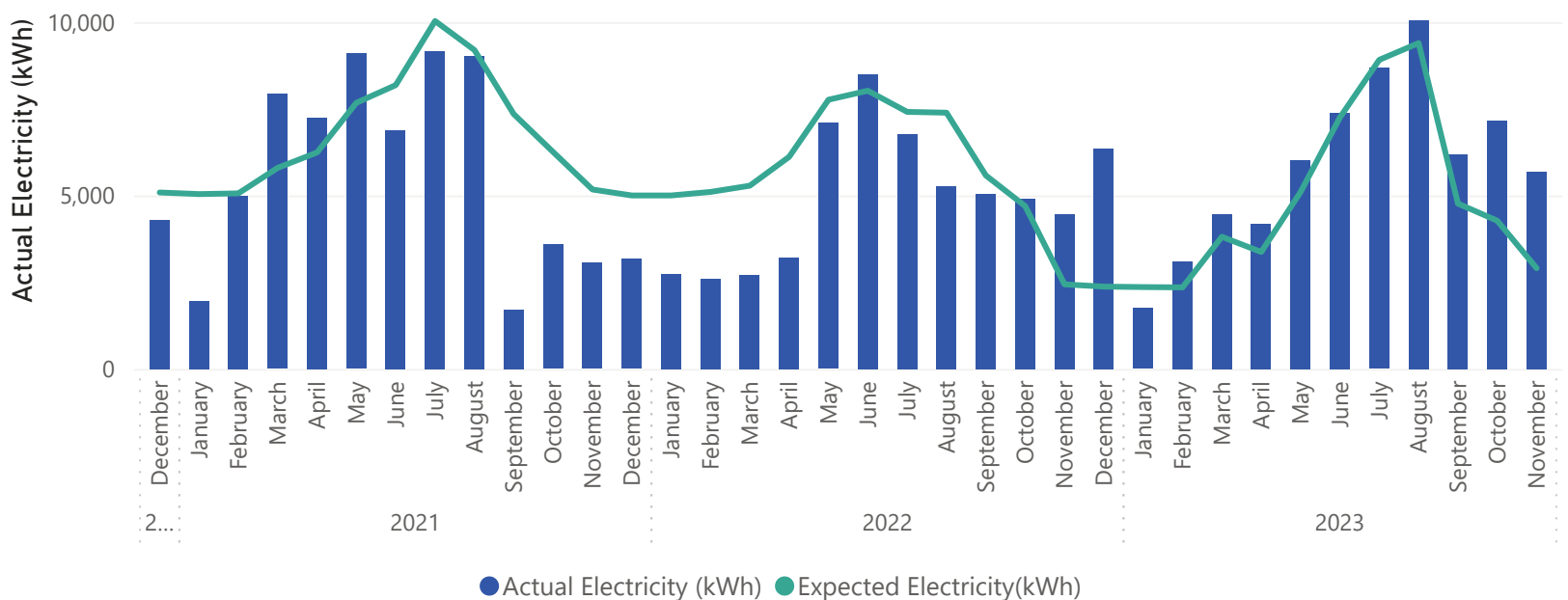
<p><b>-\$370</b> Monthly Energy Cost Savings</p>	<p><b>-2,791</b> Elec. Savings (kWh/mo)</p>	<p><b>-96%</b> Elec. Savings (%)</p>	<p><b>-14,159</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-108</b> CO2e Savings (kg/mo)</p>
<p><b>-\$2,261</b> R12M Energy Cost Savings</p>	<p><b>612</b> Gas. Savings (kWh/mo)</p>	<p><b>30%</b> Gas. Savings (%)</p>	<p><b>1,333</b> R12M Gas Savings (kWh/yr)</p>	<p><b>-904</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

The War Memorial Hall used nearly twice as much 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 less natural gas than expected in November. 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)

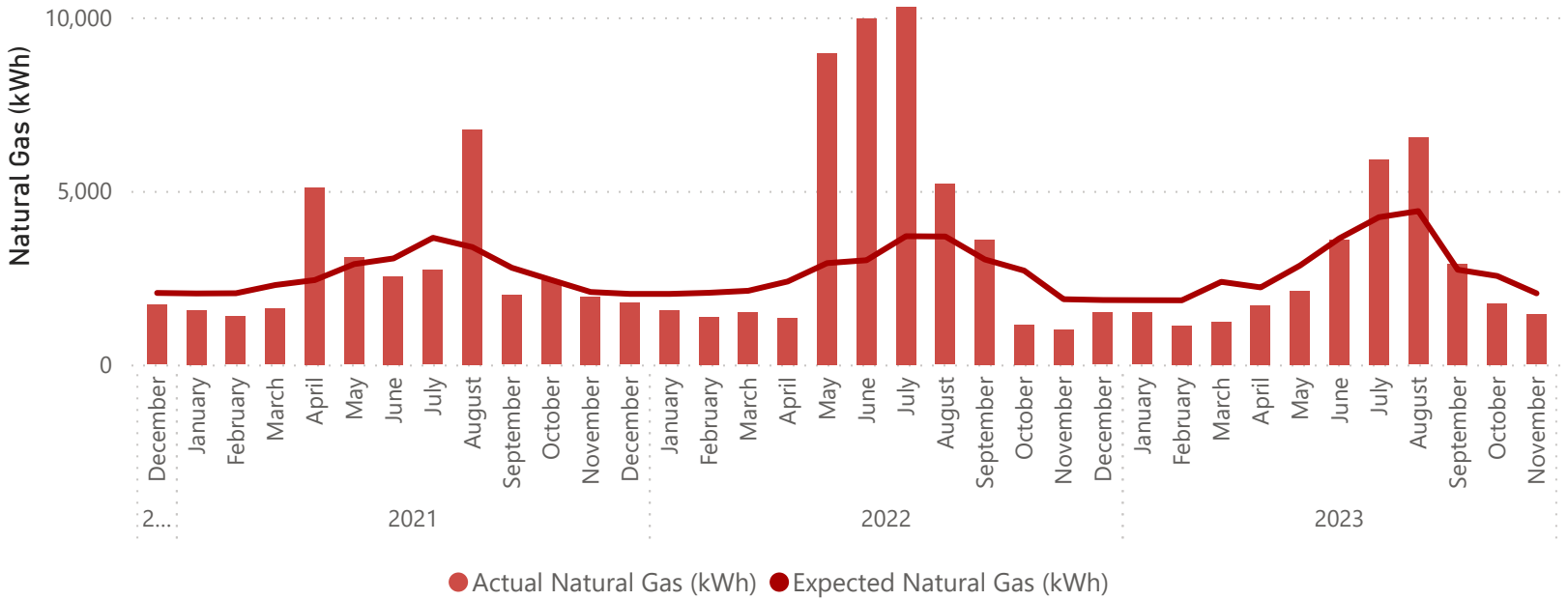


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

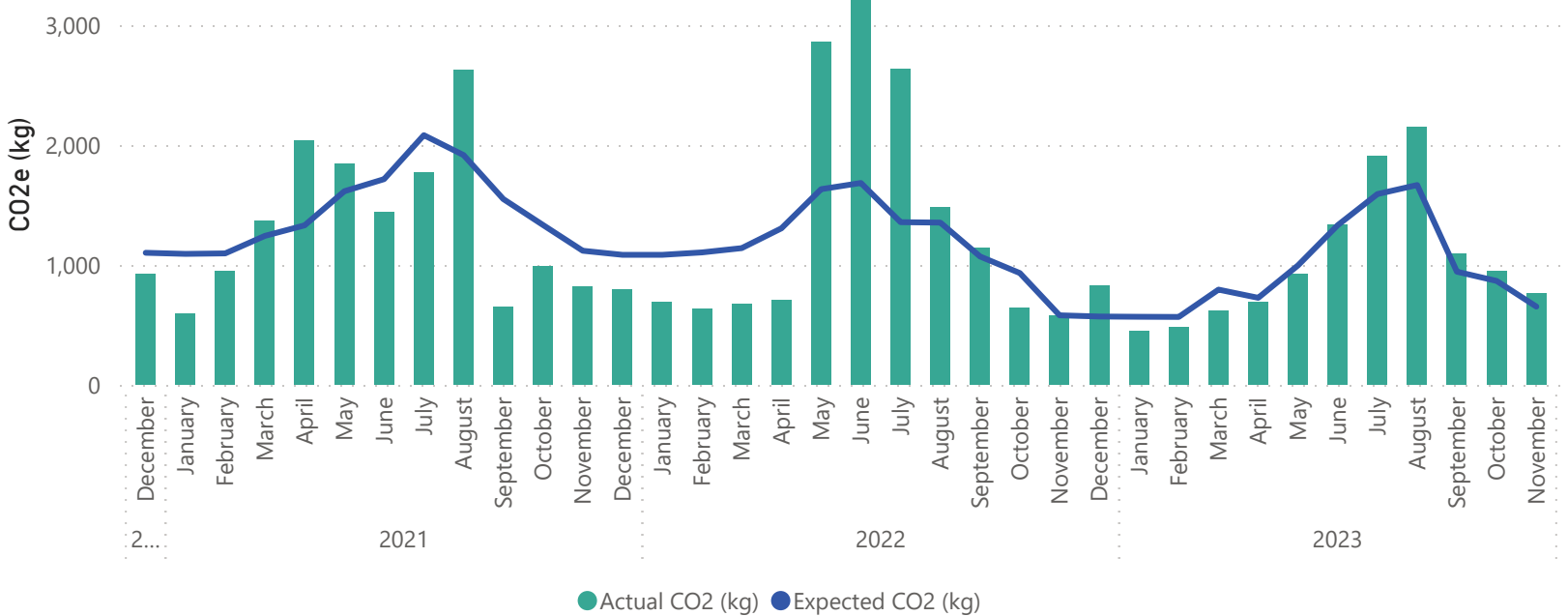
# Whakatane District Council

## War Memorial Hall

War Memorial Hall Natural Gas Compared to Baseline (kWh)



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

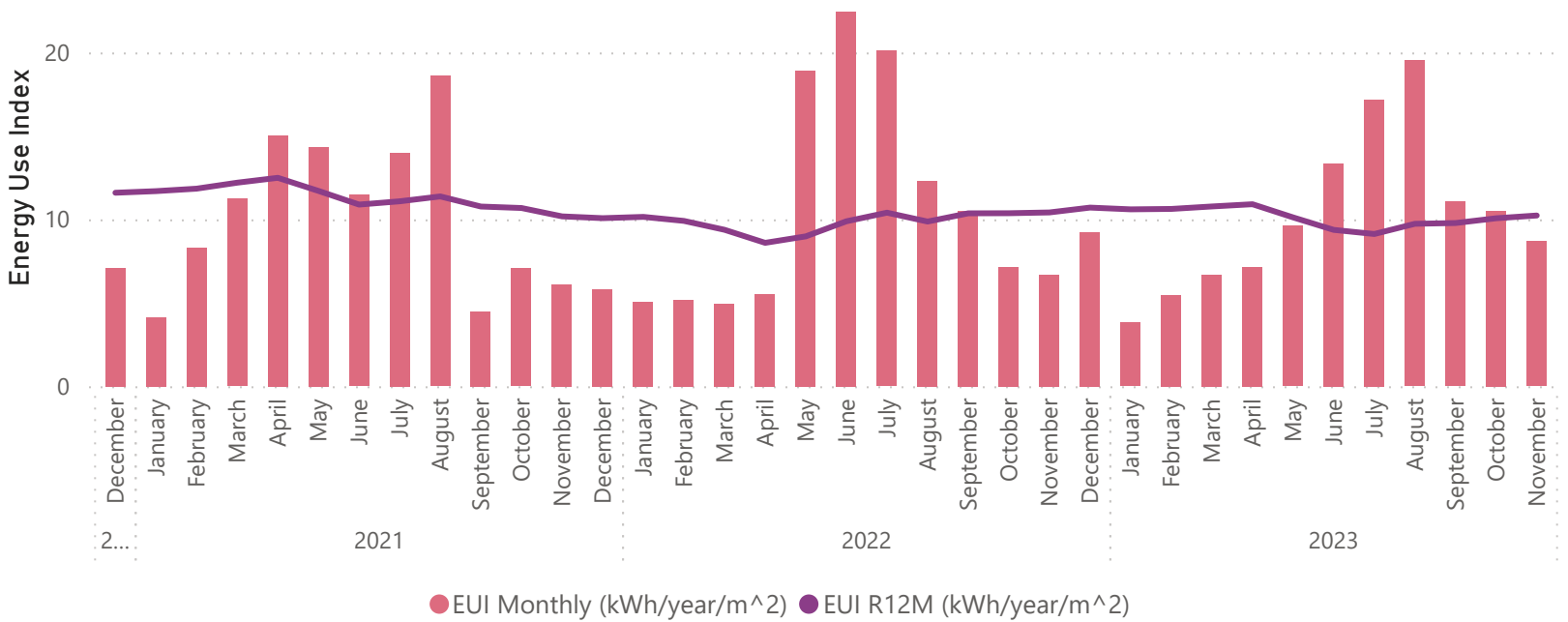


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

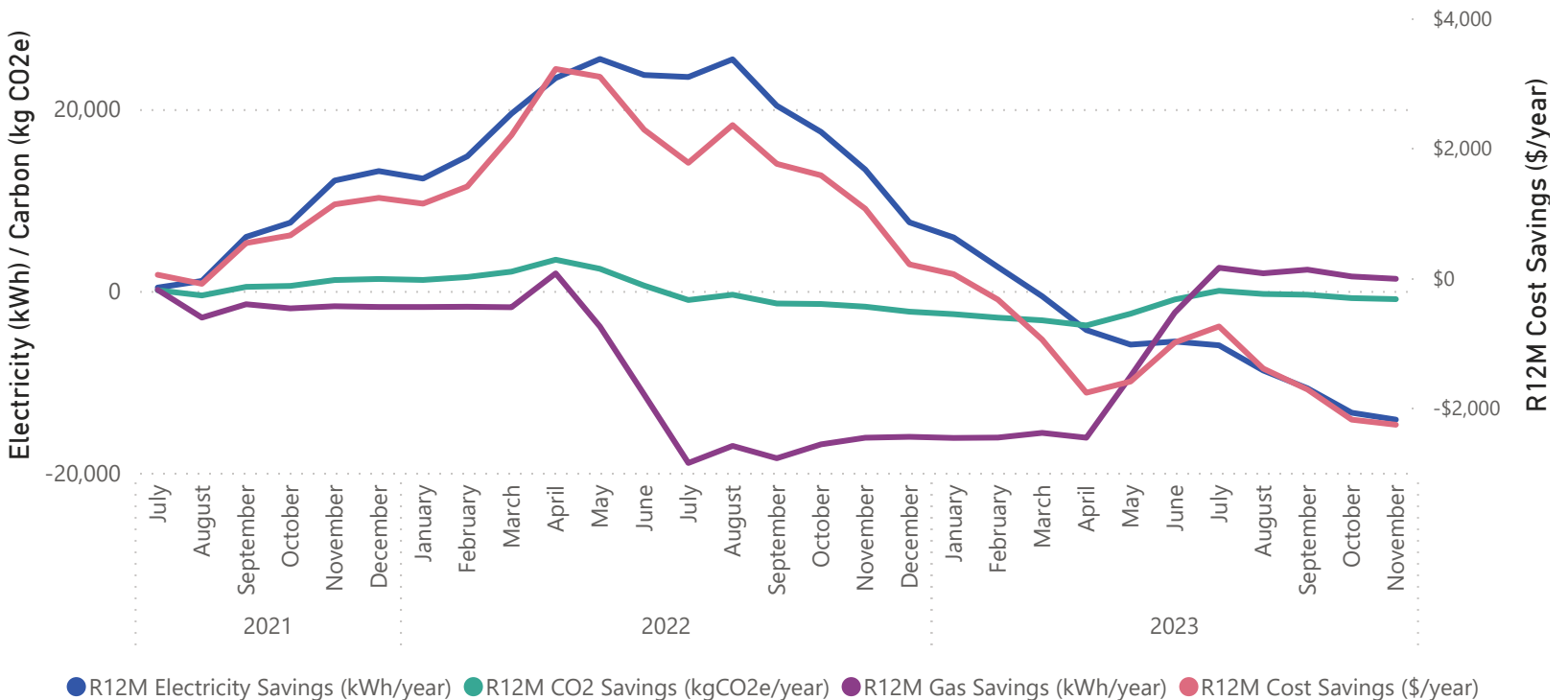
# Whakatane District Council

## War Memorial Hall

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



War Memorial Hall 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

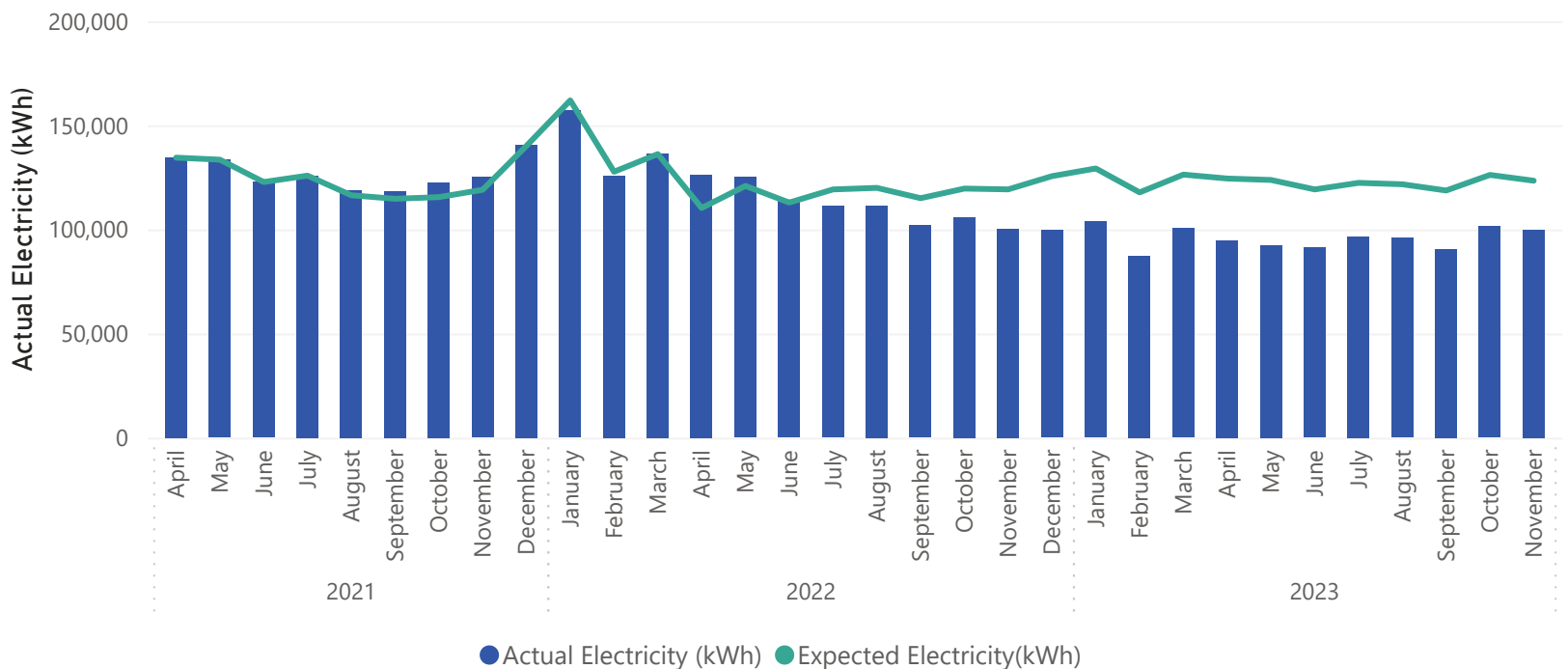
## Water Treatment Plant

<p><b>\$3,446</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>23,569</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>19%</b></p> <p>Elec. Savings (%)</p>	<p><b>324,830</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>1,952</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$56,436</b></p> <p>R12M Energy Cost Savings</p>				<p><b>26,896</b></p> <p>R12M CO2e Savings (kg/yr)</p>

### Comments:

Another month of savings has been achieved at the WTP in November 2023. Consistent savings between 15-25% have been observed since November 2022. Rolling 12 month savings have been increasing, with approximately \$56,400, 325,000 kWh, and 26,900 kgCO2e saved in the past 12 months, which is excellent.

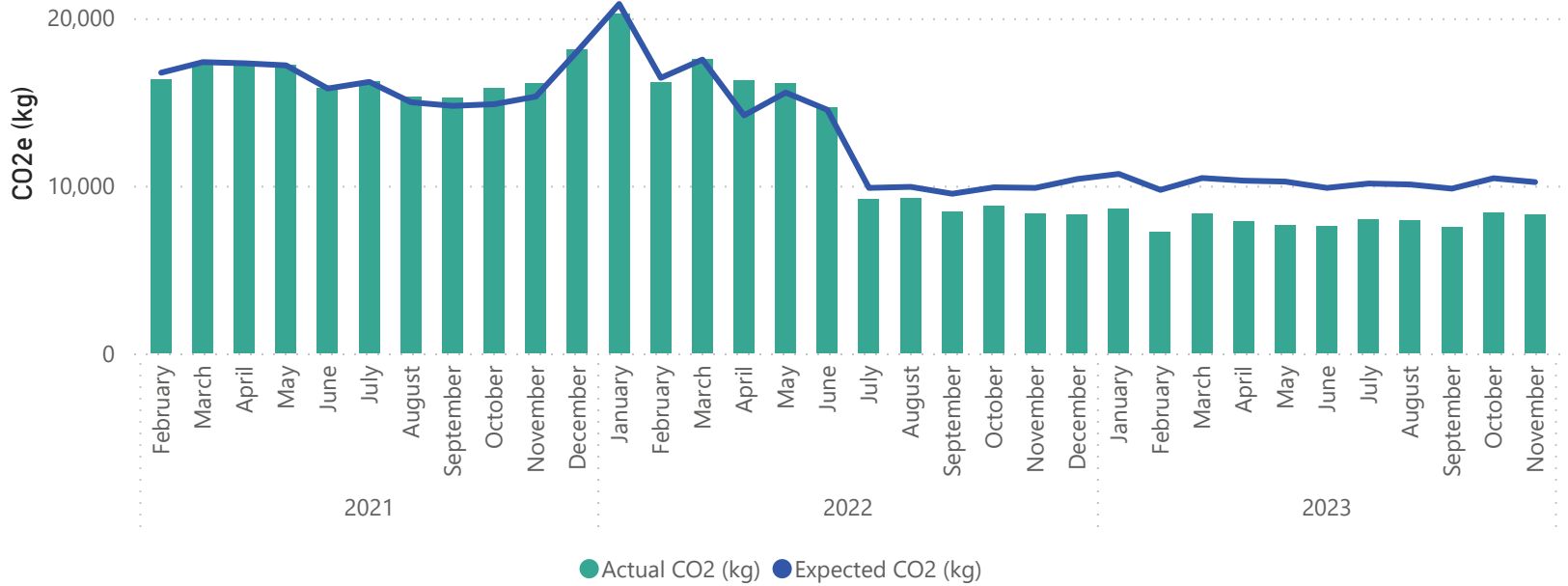
Water Treatment Plant Electricity Use Compared to Baseline (kWh)



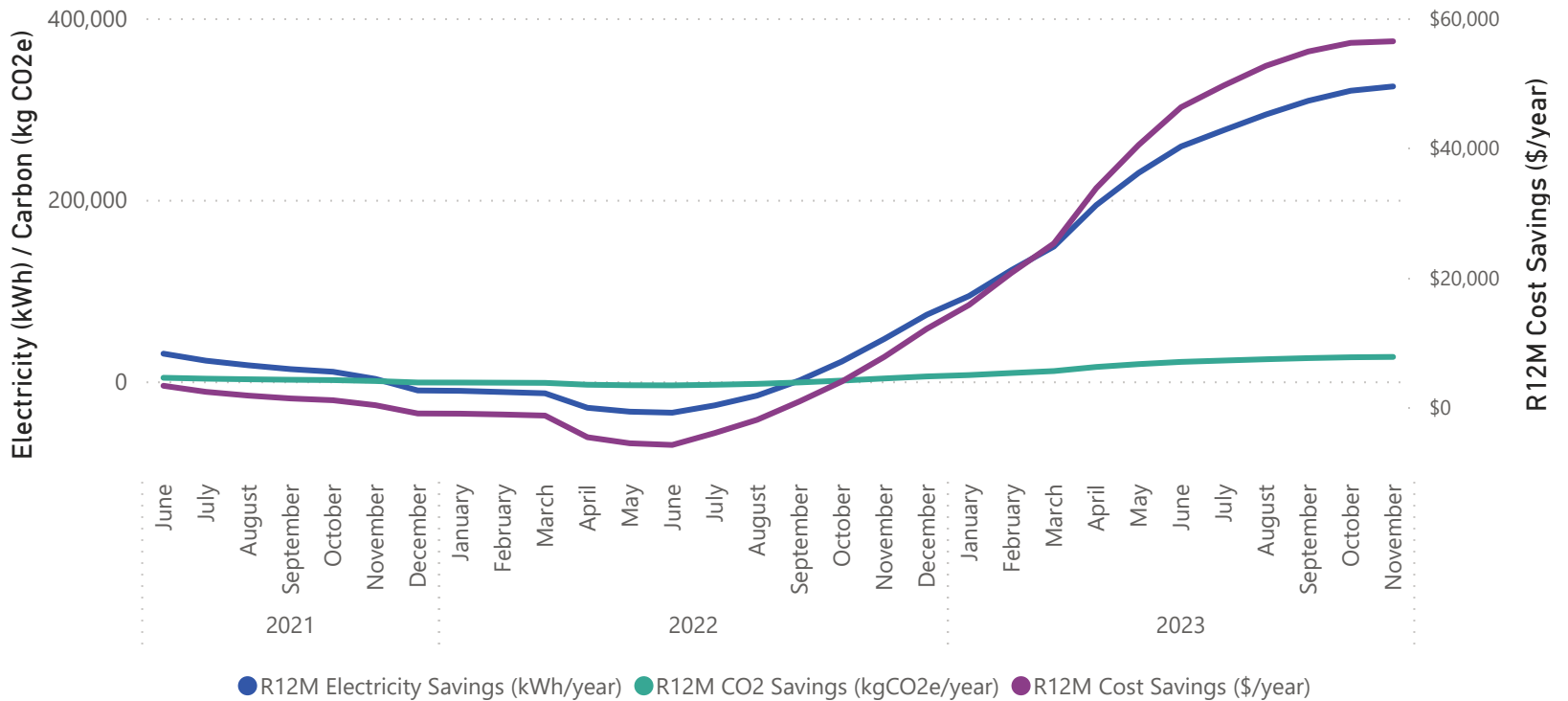
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council Water Treatment Plant

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



Water Treatment Plant Rolling 12 Month Savings

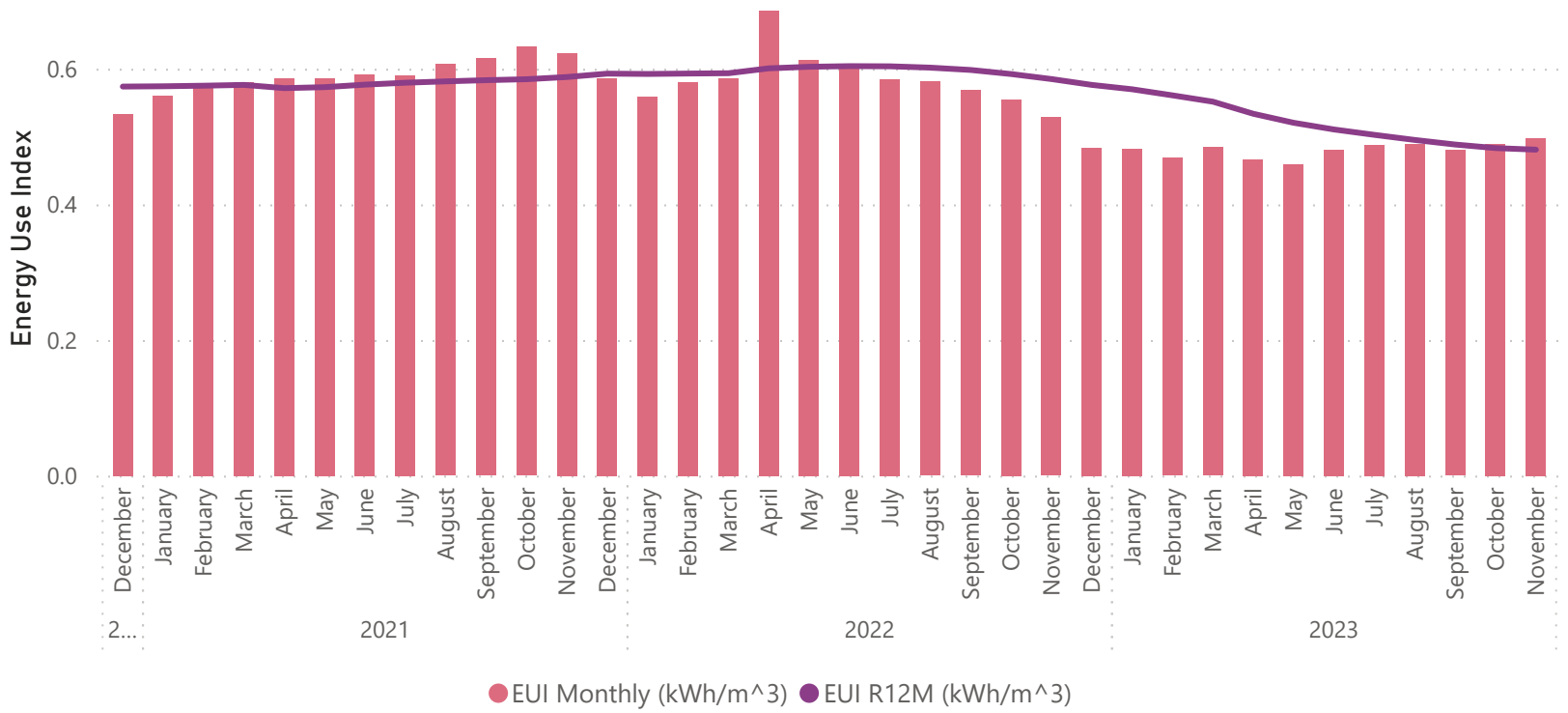


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

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

# Whakatane District Council

## Braemar Road Pump Station

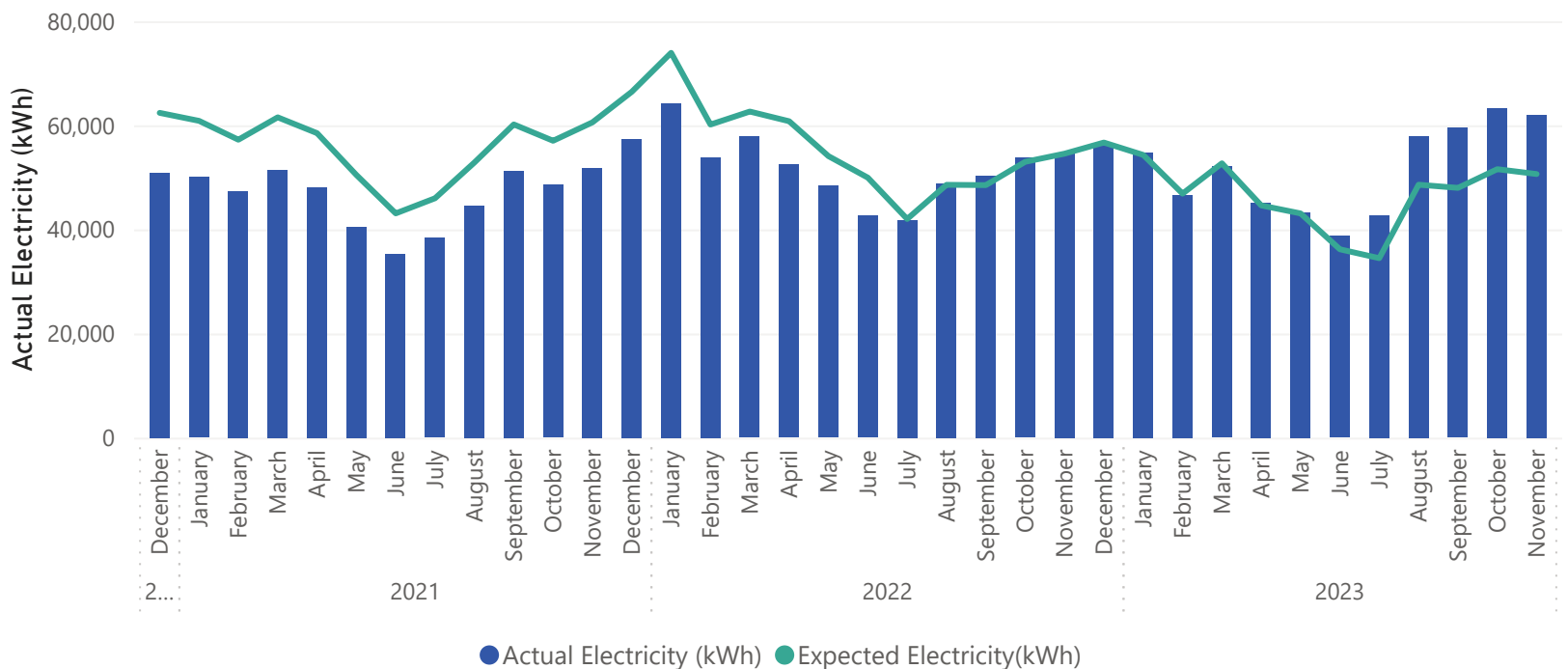
<p><b>-\$1,685</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>-11,307</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>-22%</b></p> <p>Elec. Savings (%)</p>	<p><b>-54,896</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>-936</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>-\$9,469</b></p> <p>R12M Energy Cost Savings</p>				<p><b>-4,545</b></p> <p>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 around 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)



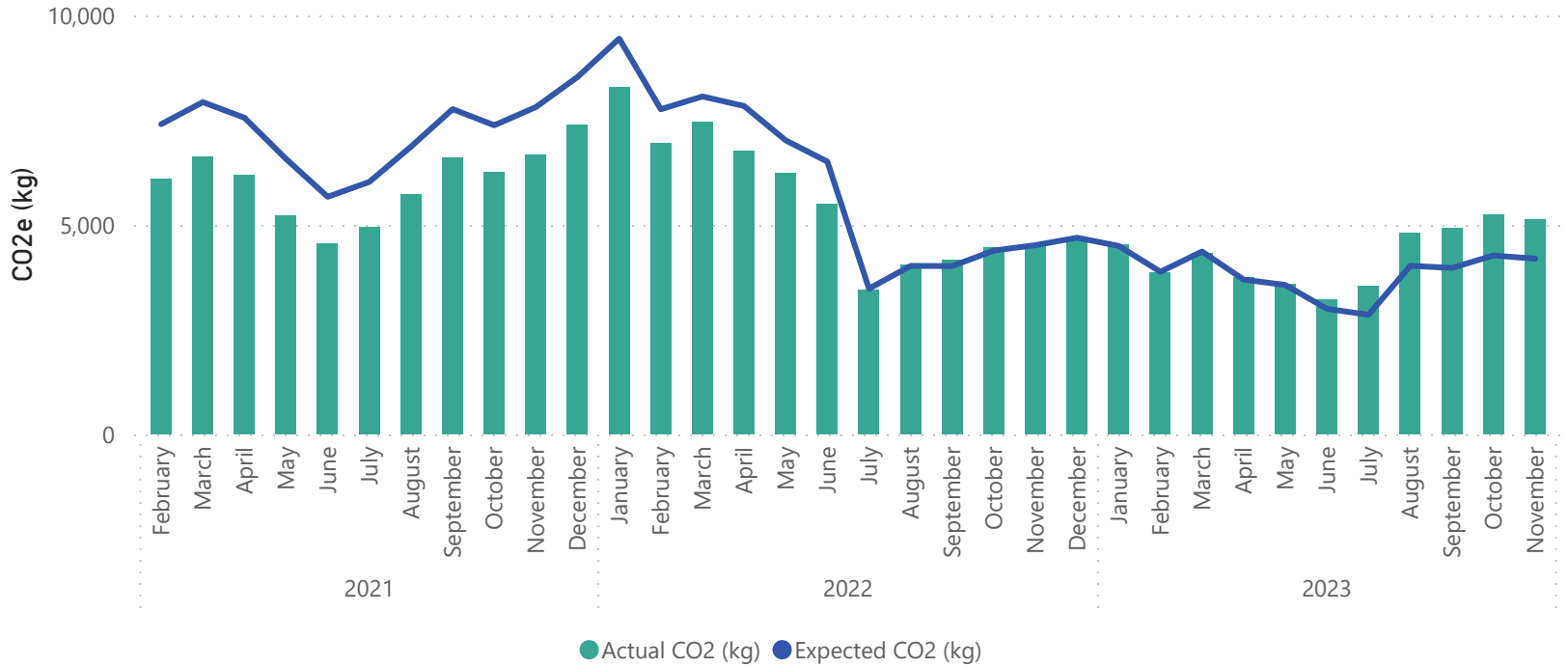
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**



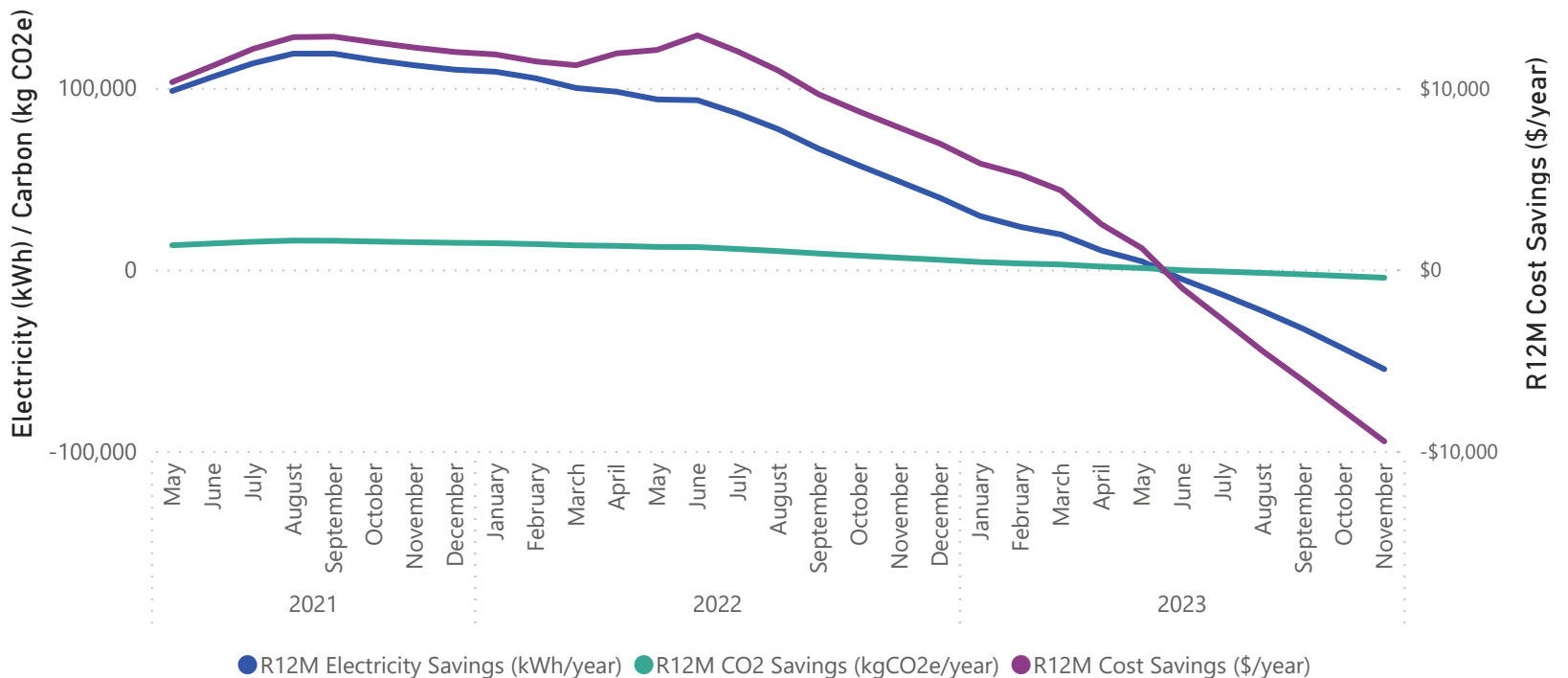
# Whakatane District Council

## Braemar Road Pump Station

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



Braemar Rd Pumps Rolling 12 Month Savings

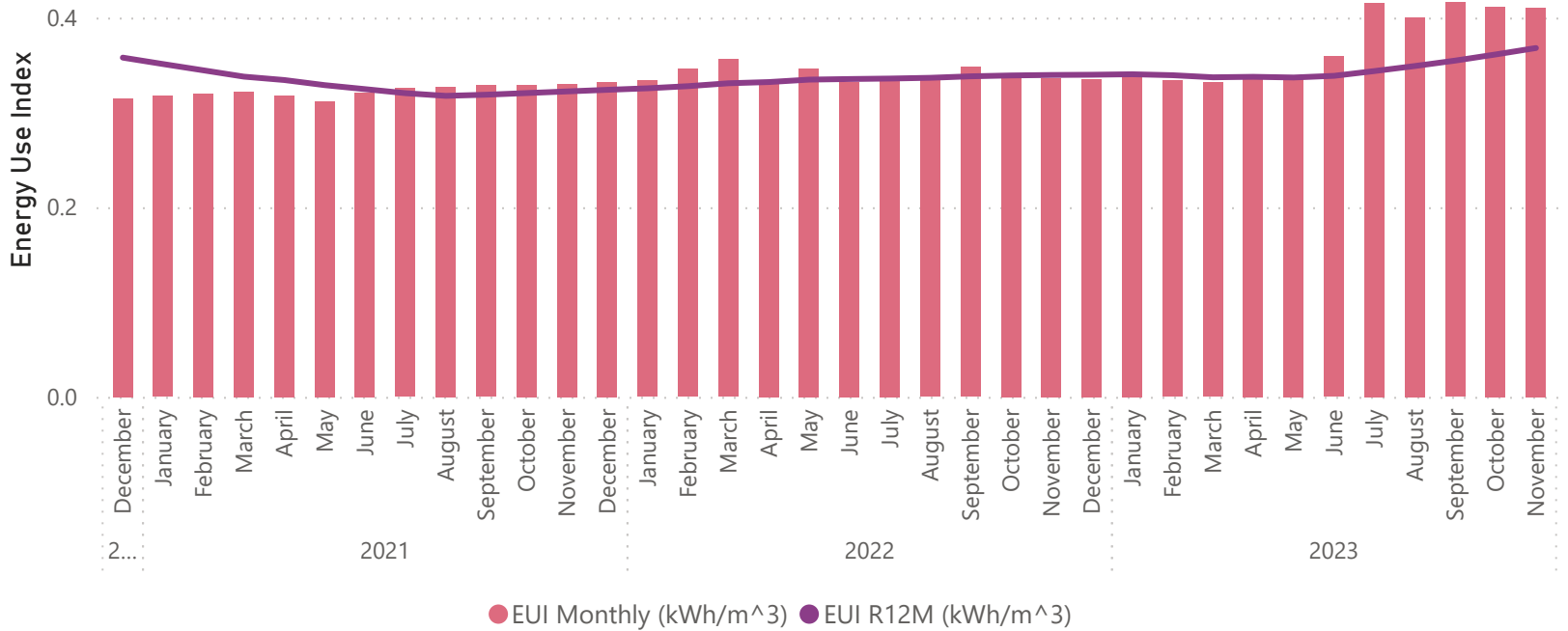


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

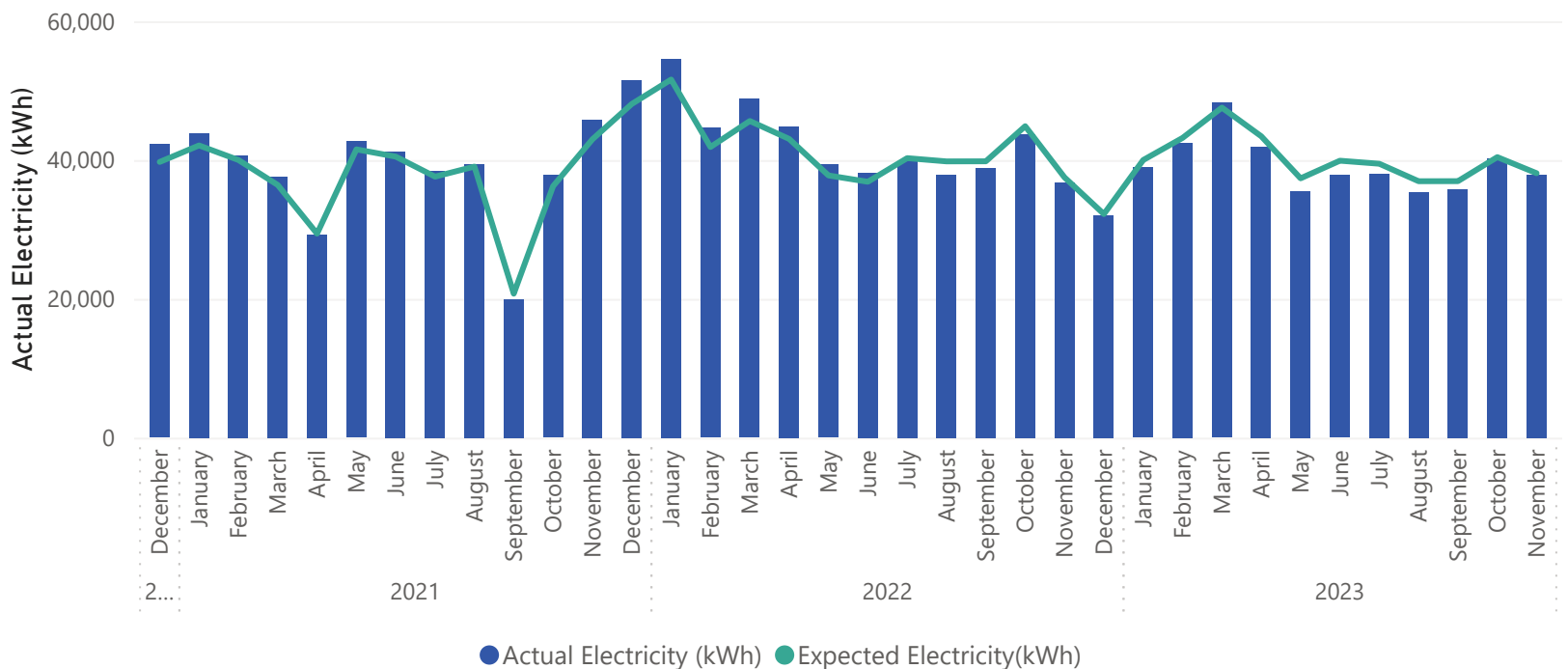
## Paul Road Pump Station

<p><b>\$38</b></p> <p>Monthly Energy Cost Savings</p>	<p><b>255</b></p> <p>Elec. Savings (kWh/mo)</p>	<p><b>1%</b></p> <p>Elec. Savings (%)</p>	<p><b>11,421</b></p> <p>R12M Electricity Savings (kWh/yr)</p>	<p><b>21</b></p> <p>CO2e Savings (kg/mo)</p>
<p><b>\$2,107</b></p> <p>R12M Energy Cost Savings</p>				<p><b>946</b></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)

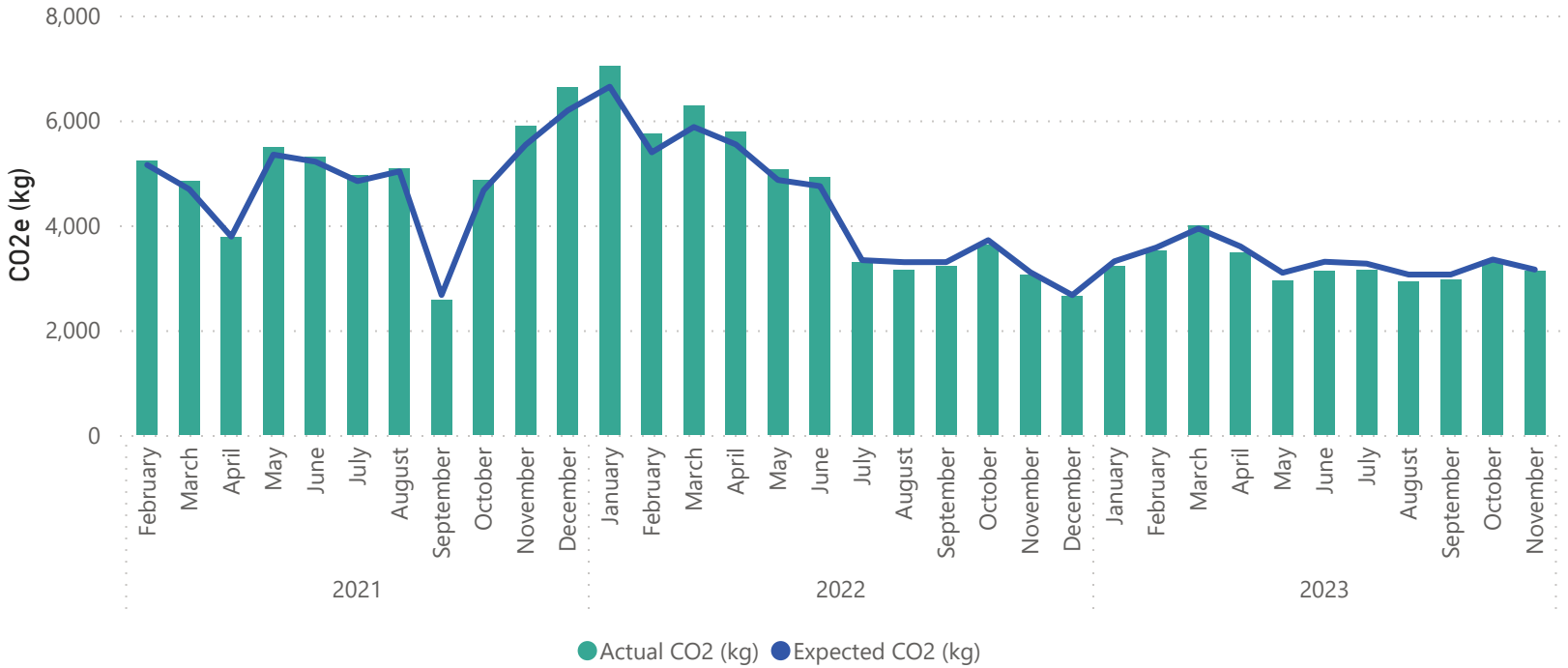


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

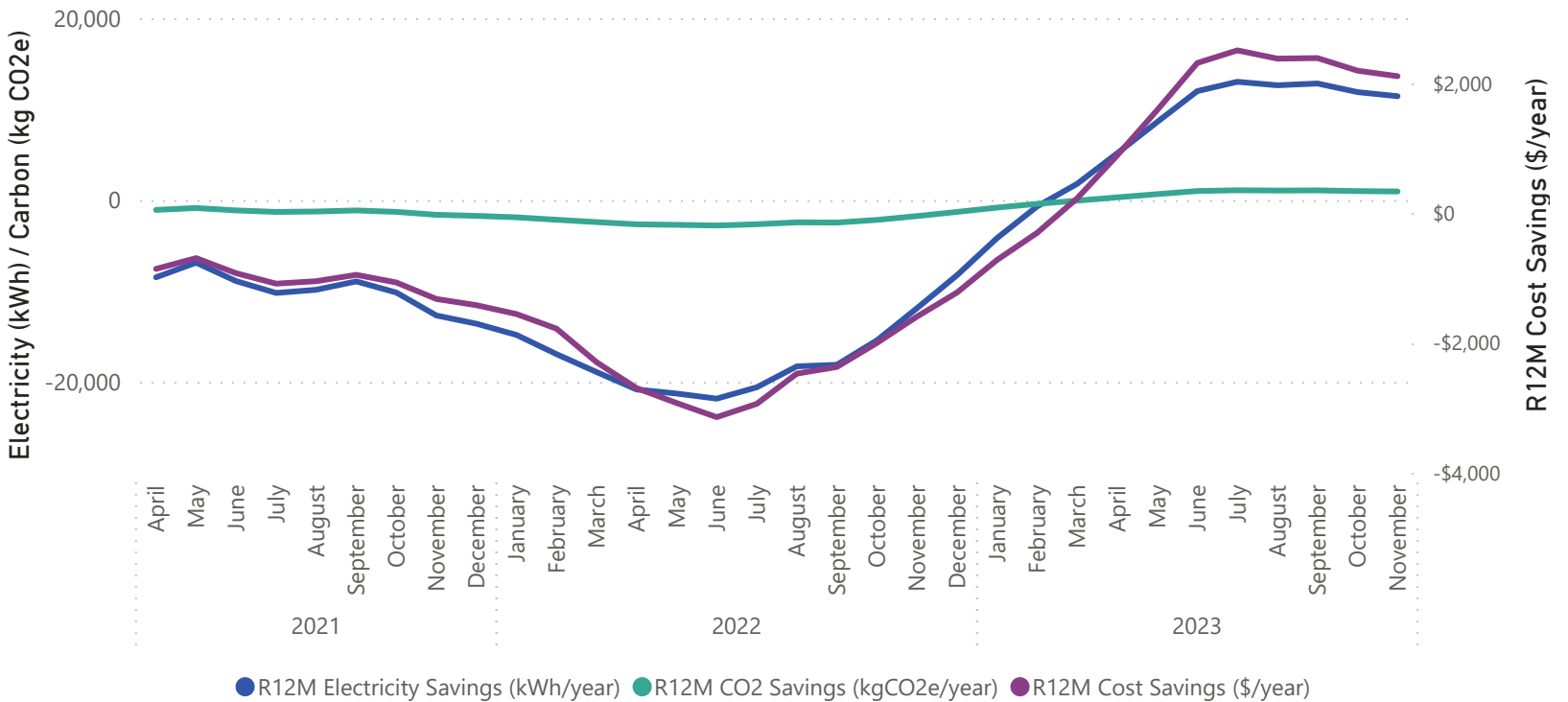
# Whakatane District Council

## Paul Road Pump Station

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



Paul Rd Pumps Rolling 12 Month Savings

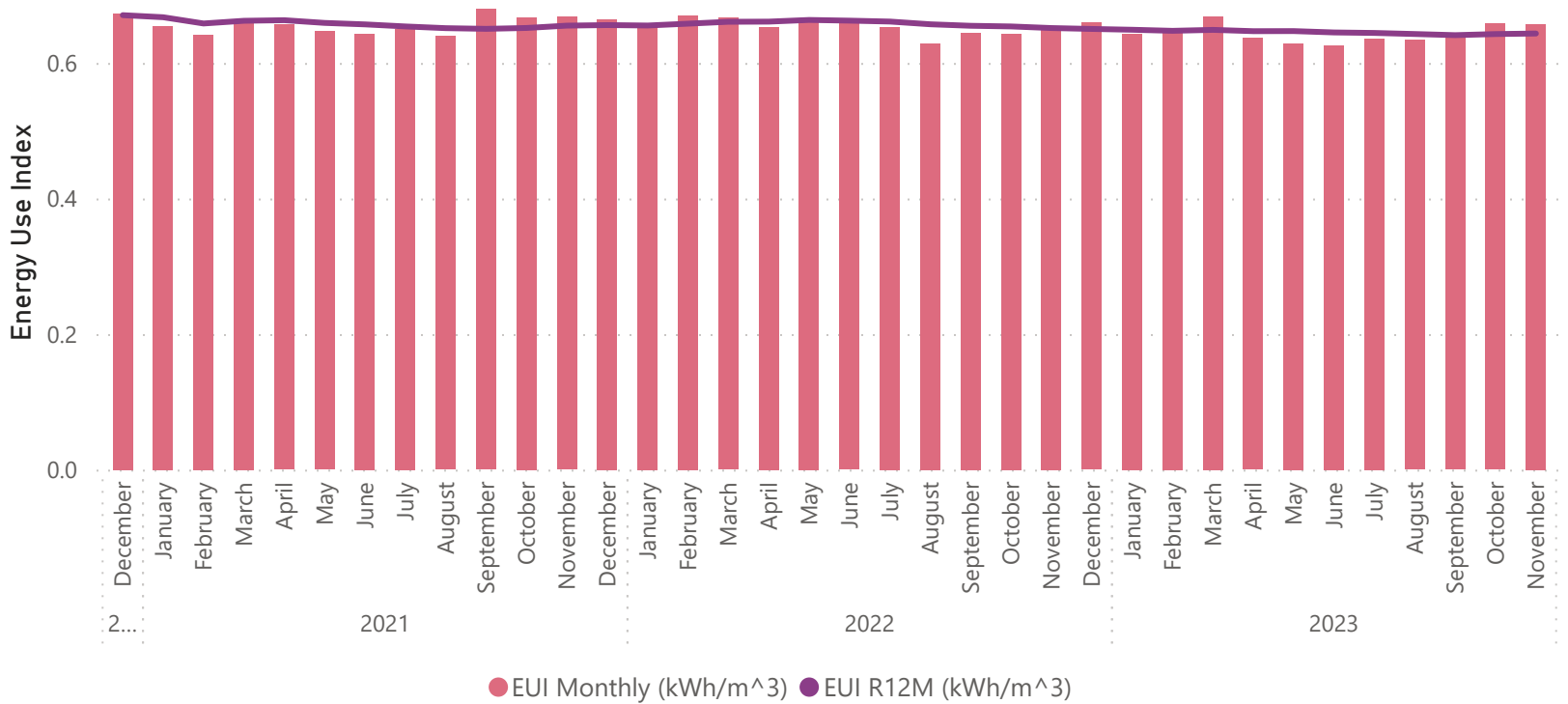


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

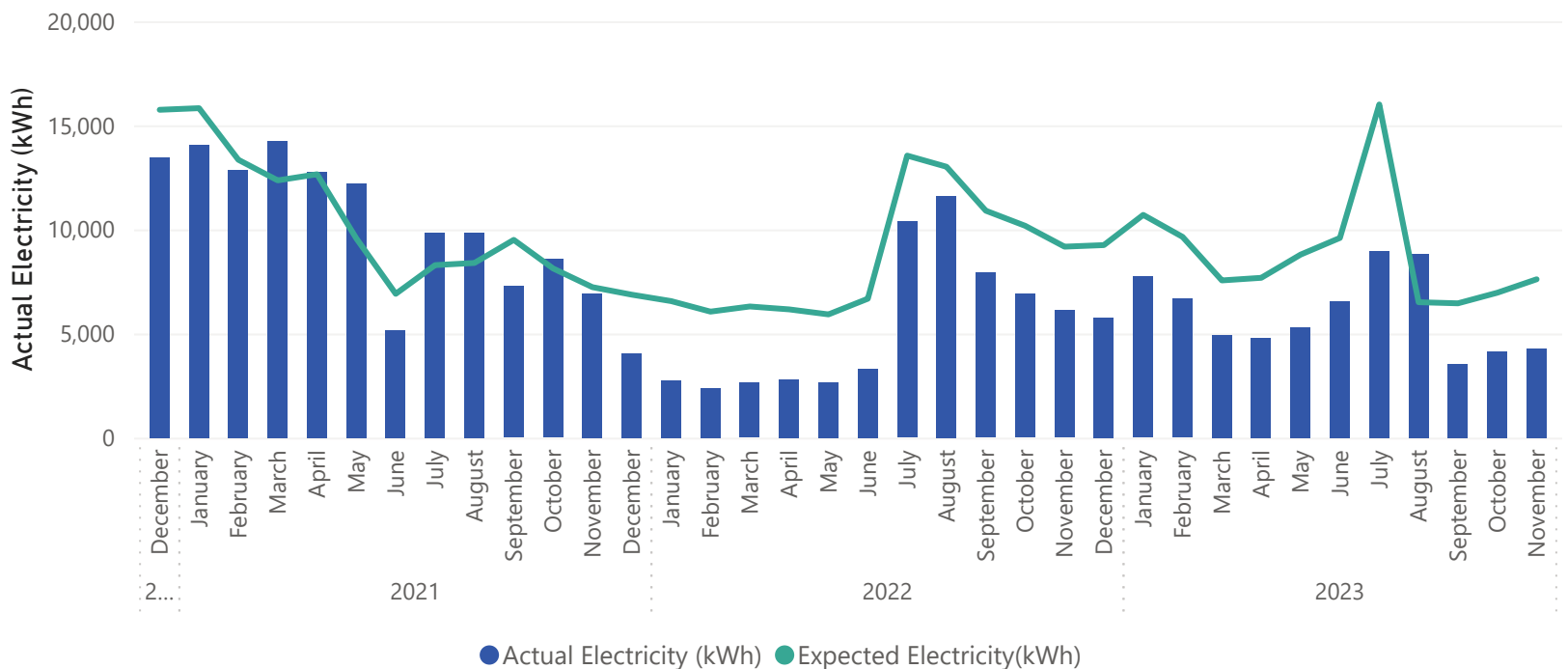
## Johnson Road Pump Station

<p><b>\$738</b> Monthly Energy Cost Savings</p>	<p><b>3,320</b> Elec. Savings (kWh/mo)</p>	<p><b>44%</b> Elec. Savings (%)</p>	<p><b>35,186</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>275</b> CO2e Savings (kg/mo)</p>
<p><b>\$7,636</b> R12M Energy Cost Savings</p>				<p><b>2,913</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

Johnson Rd Pump used 44% 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)

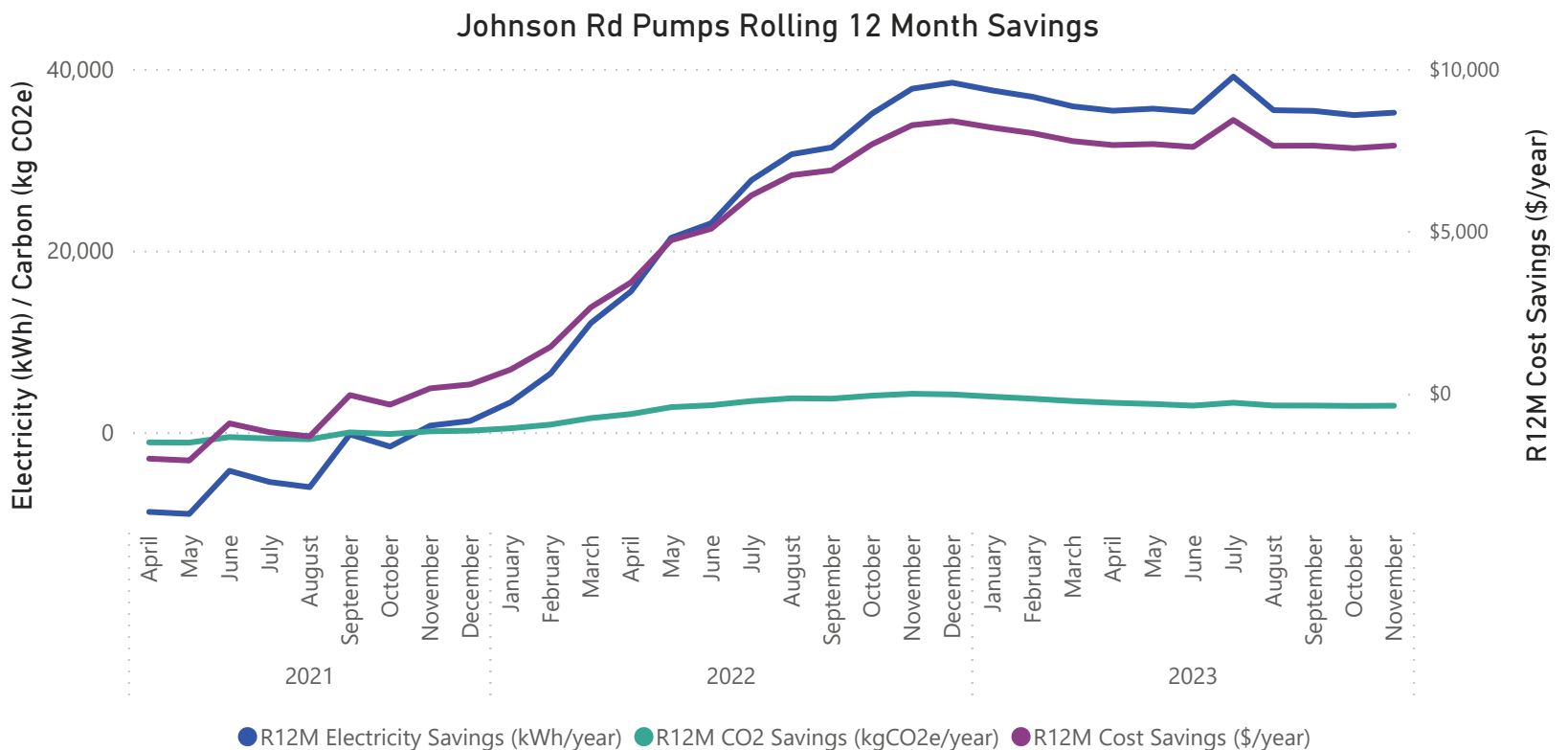
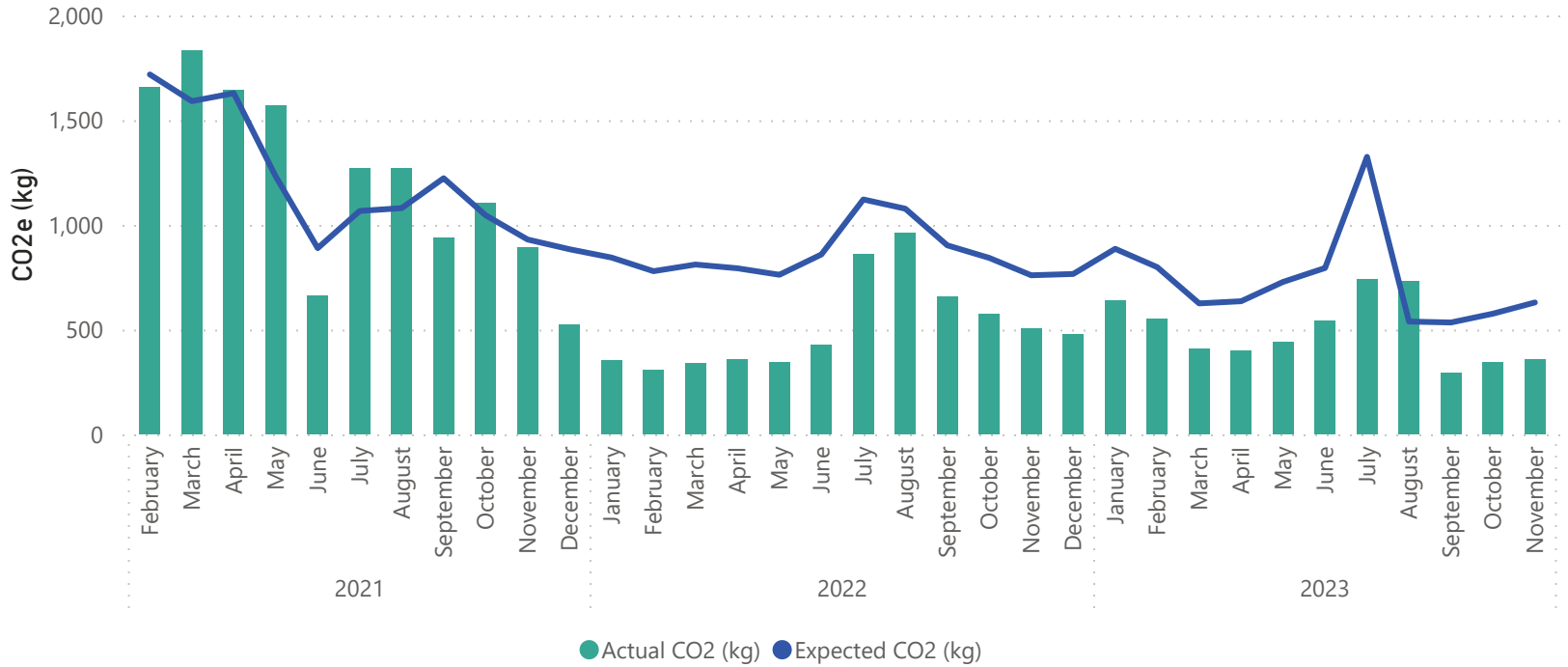


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council

## Johnson Road Pump Station

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

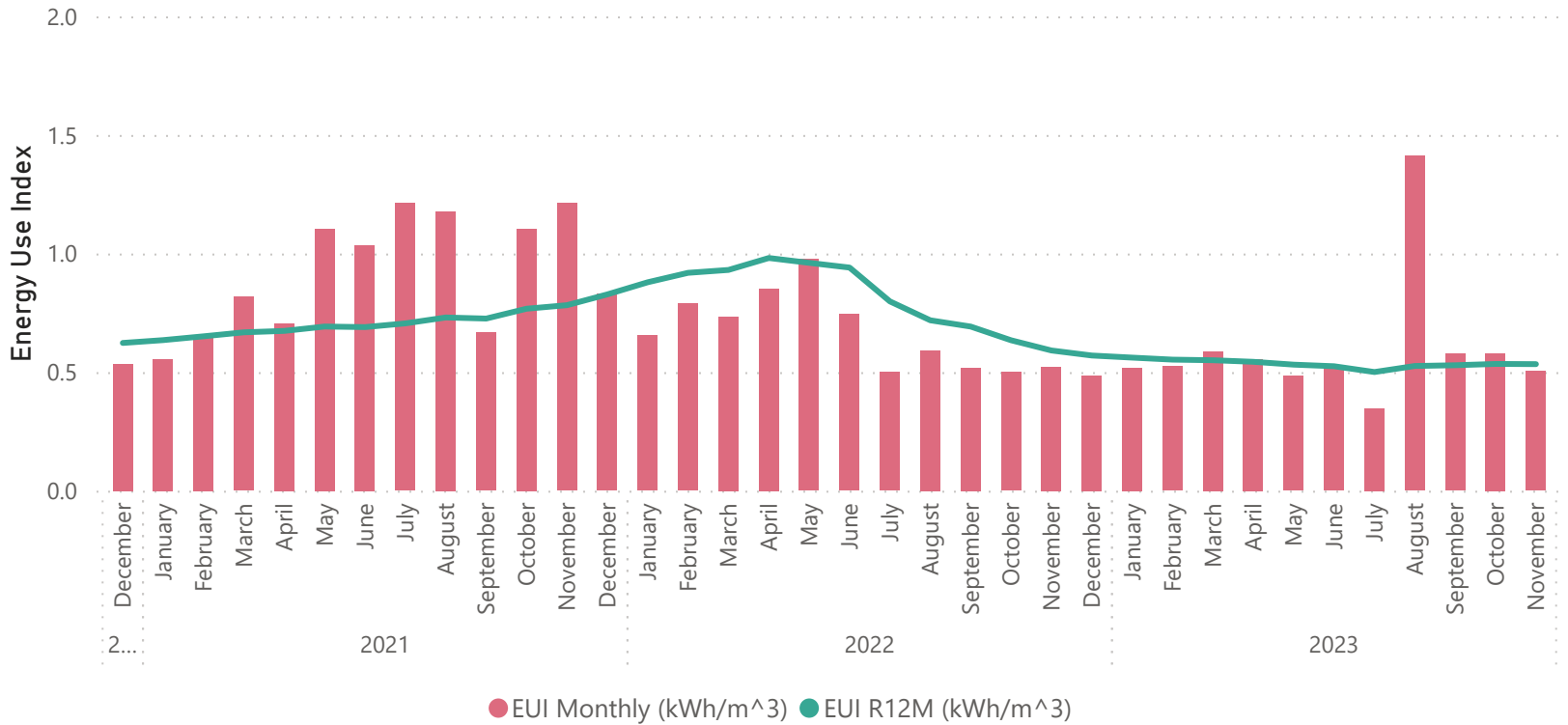


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

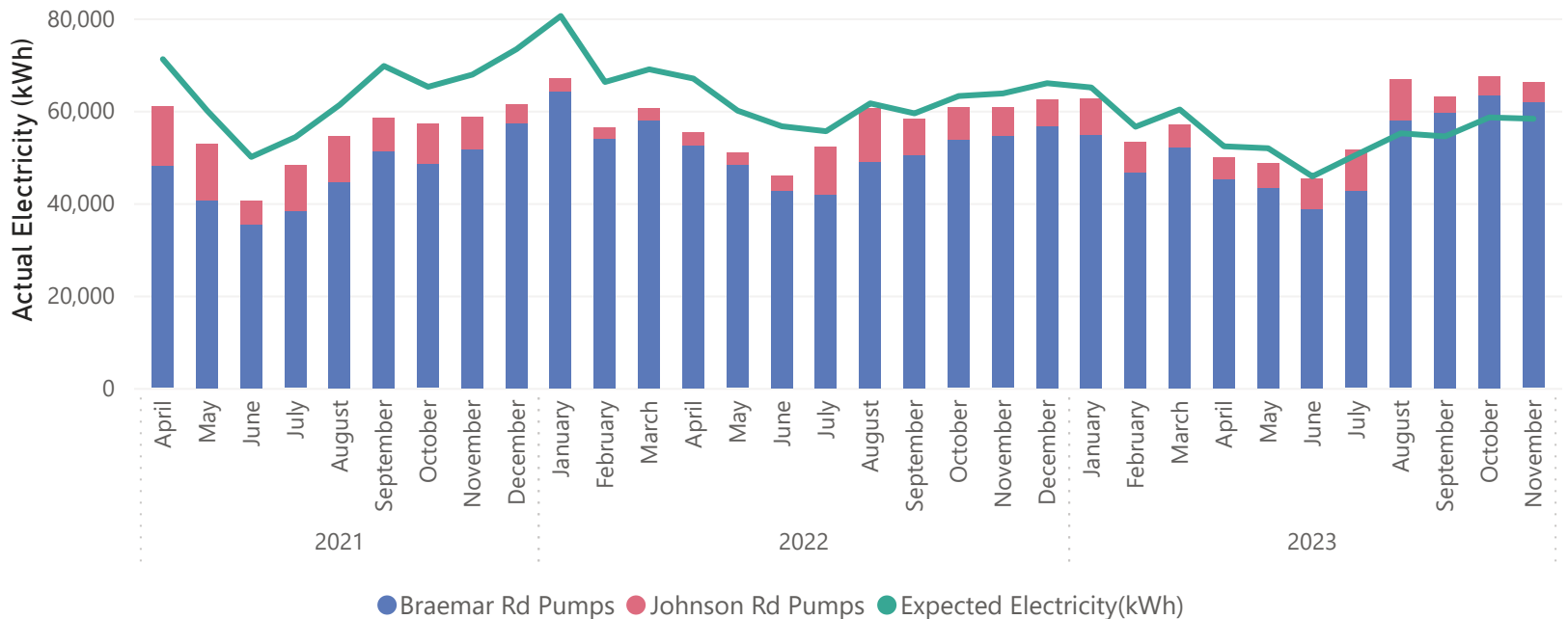
## Johnson and Braemar Rd Pump Stations

<p><b>-\$947</b> Monthly Energy Cost Savings</p>	<p><b>-7,987</b>      <b>-14%</b>      <b>-19,710</b> Elec. Savings (kWh/mo)    Elec. Savings (%)    R12M Electricity Savings (kWh/yr)</p>			<p><b>-661</b> CO2e Savings (kg/mo)</p>
<p><b>-\$1,832</b> R12M Energy Cost Savings</p>				<p><b>-1,632</b> R12M CO2e Savings (kg/yr)</p>

**Comments:**

Braemar Rd pump station has used more electricity than expected from August - November 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)

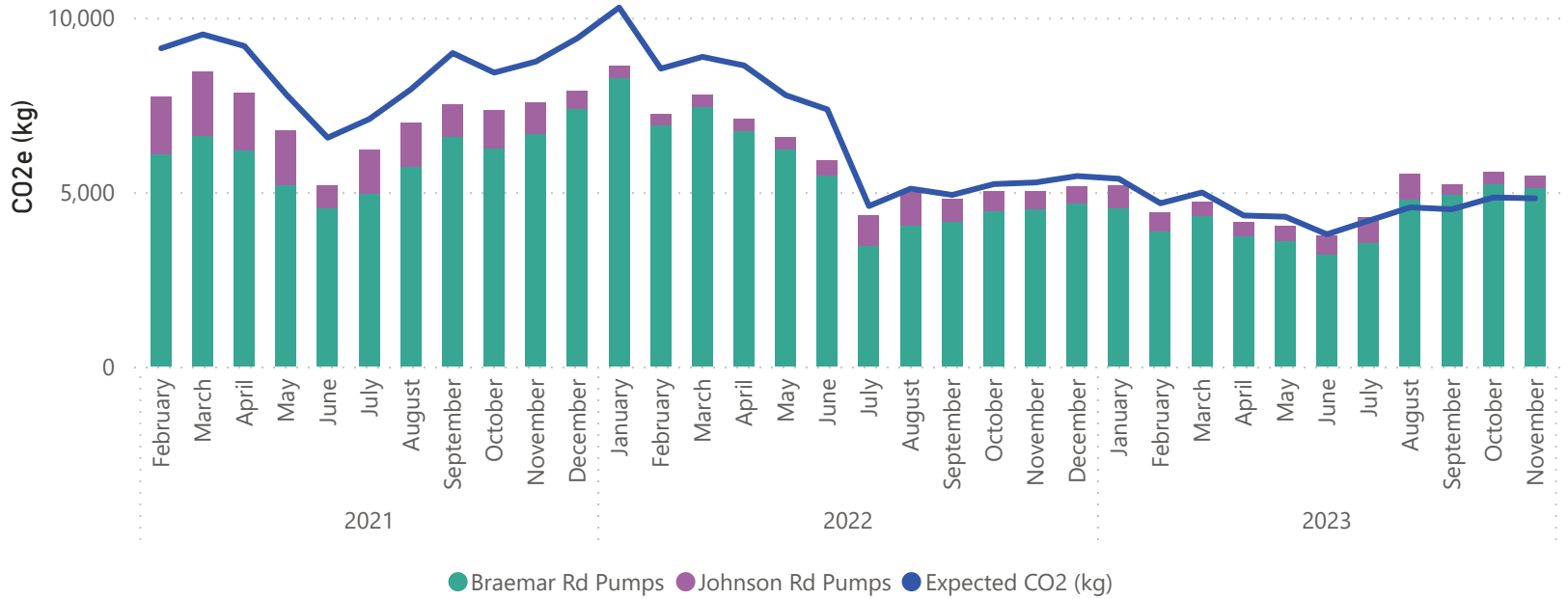


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

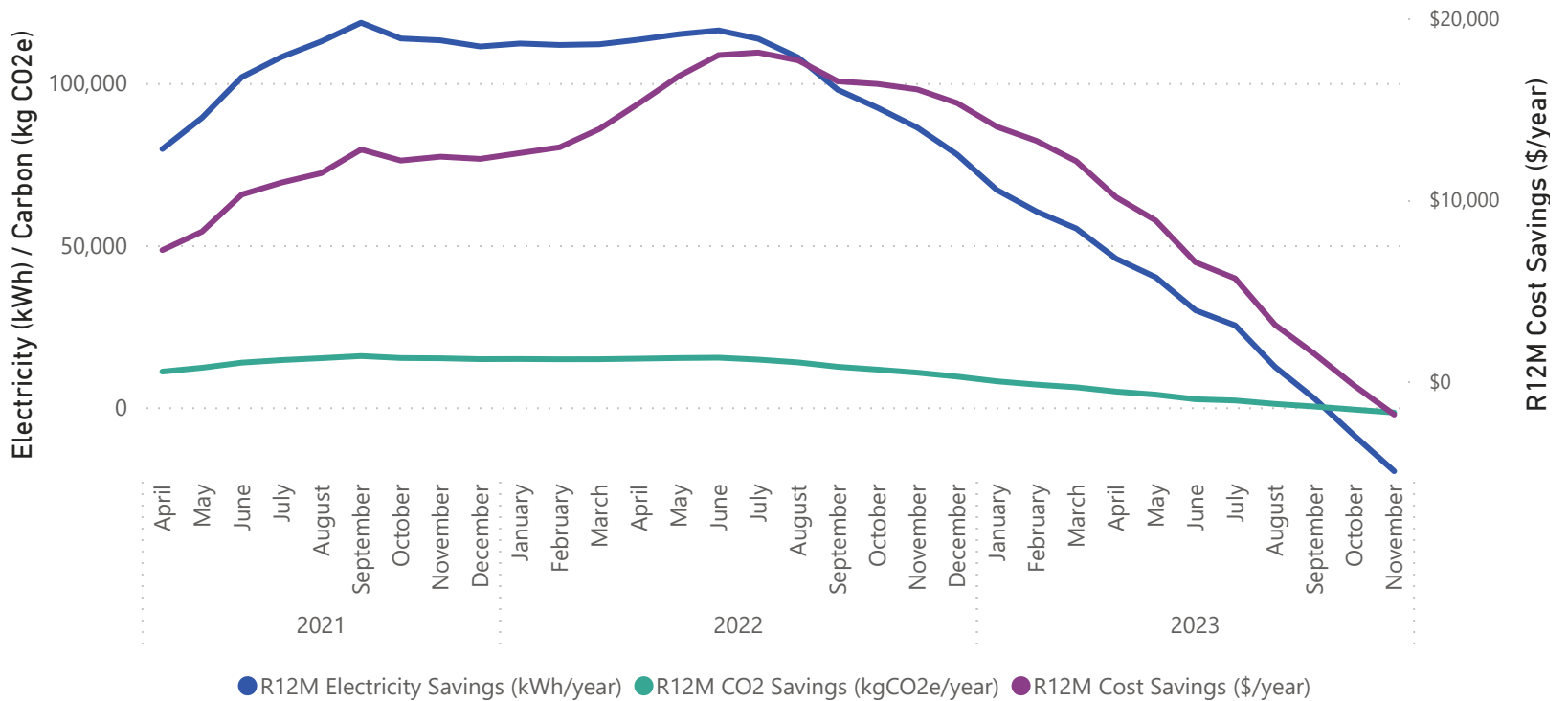
# Whakatane District Council

## 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

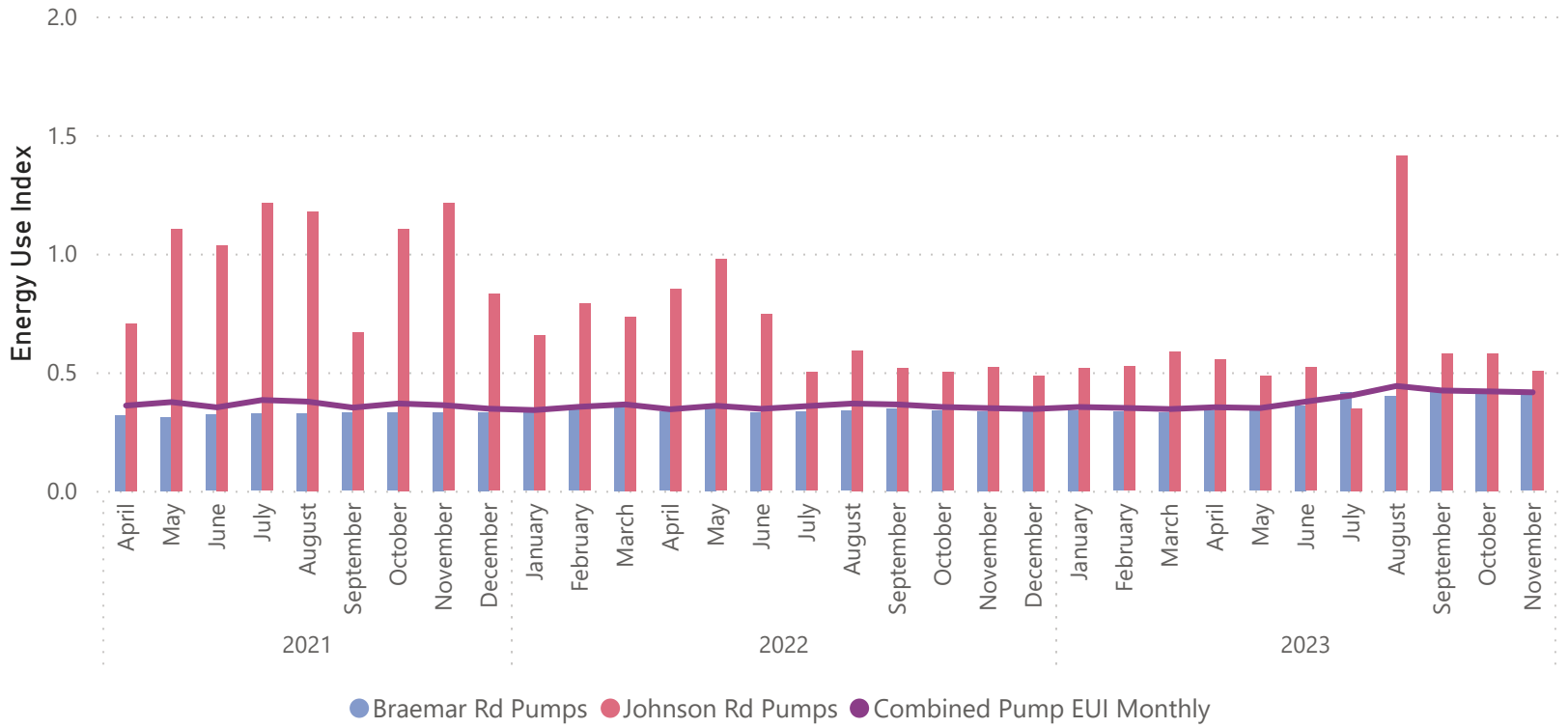


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

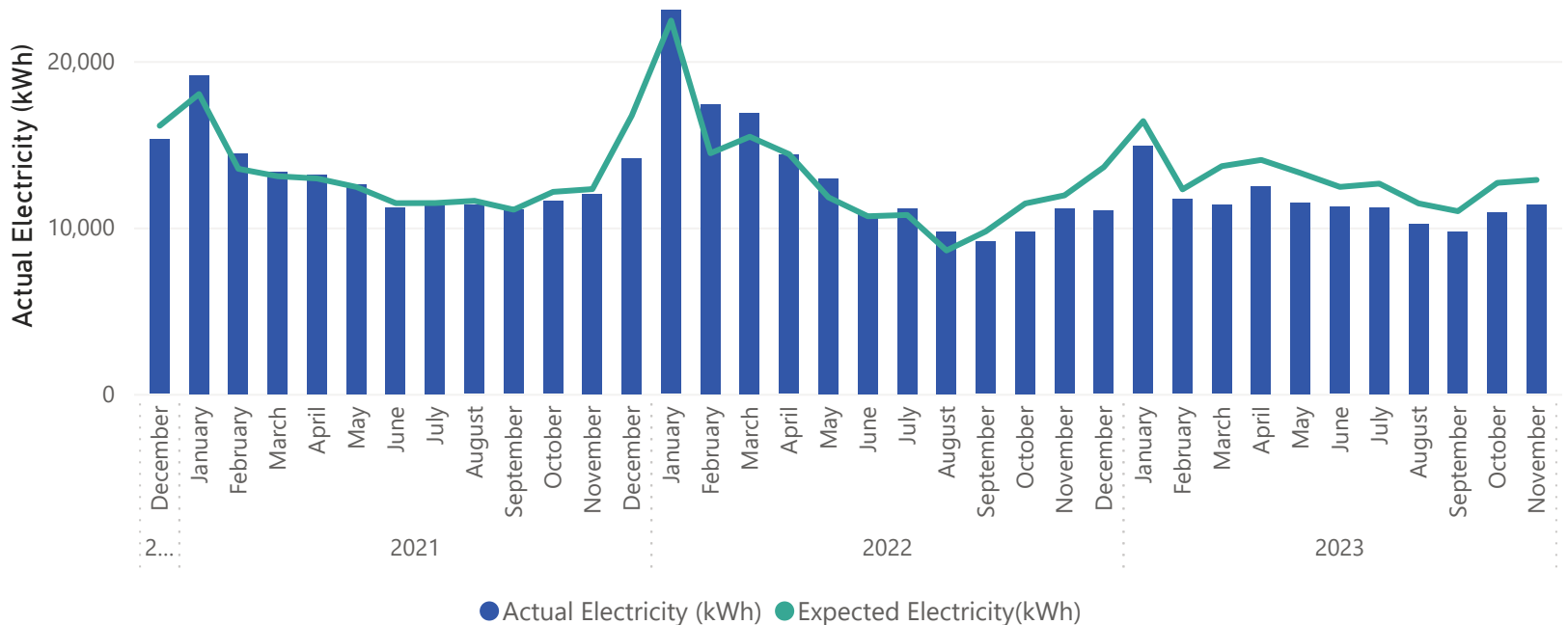
## Bridger Glade Pump Station

<p><b>\$266</b> Monthly Energy Cost Savings</p>	<p><b>1,504</b> Elec. Savings (kWh/mo)</p>	<p><b>12%</b> Elec. Savings (%)</p>	<p><b>18,816</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>125</b> CO2e Savings (kg/mo)</p>
<p><b>\$3,322</b> R12M Energy Cost Savings</p>				<p><b>1,558</b> 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 \$3,300, 18,800 kWh, and 1,560 kg CO2e.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

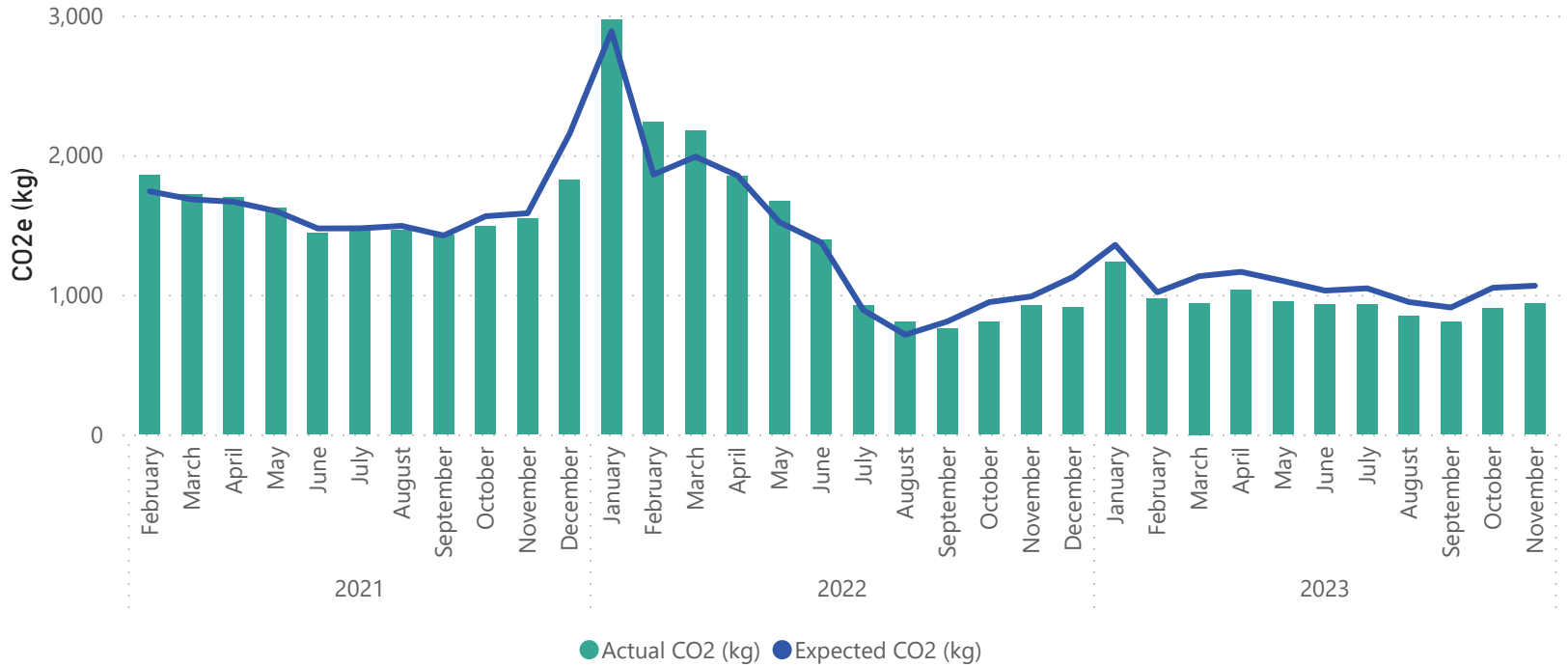


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

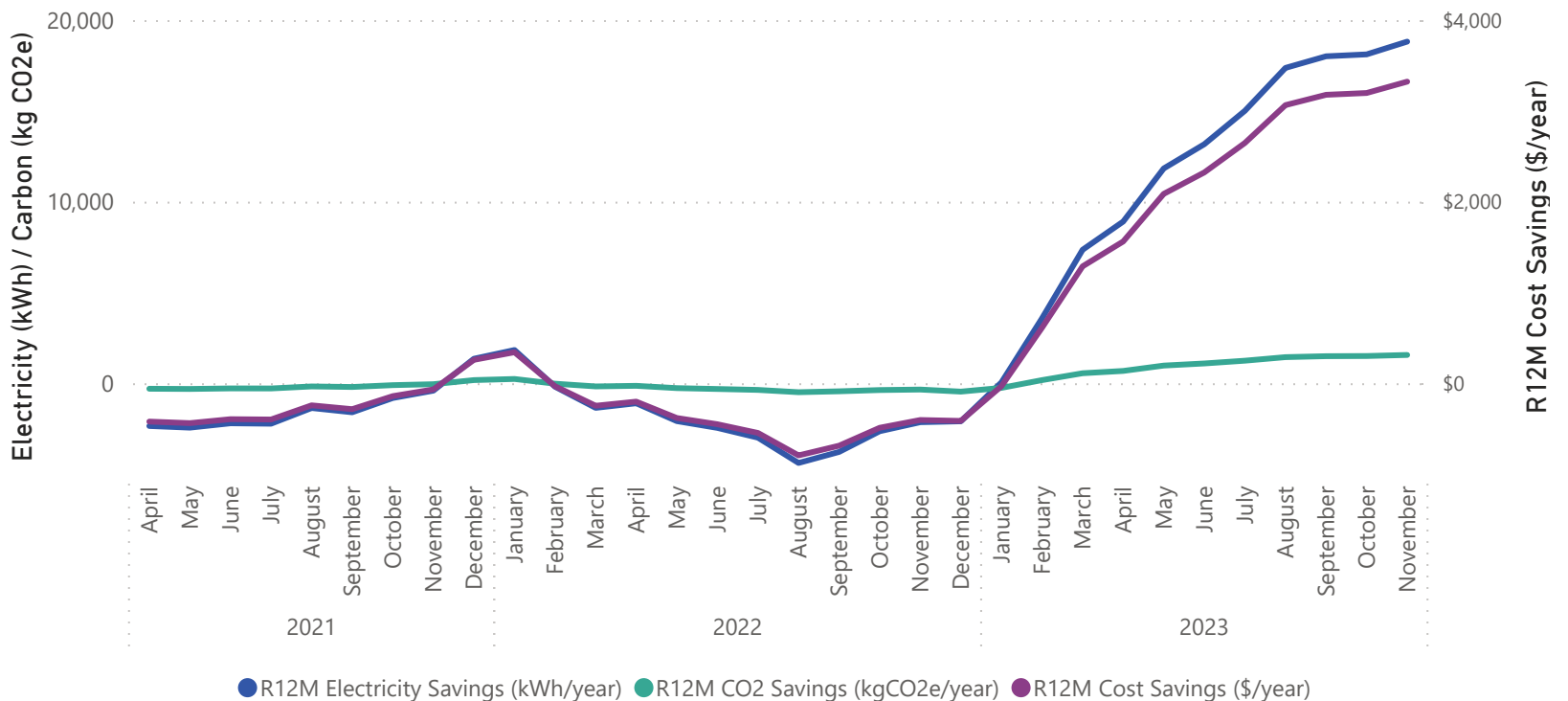
# Whakatane District Council

## Bridger Glade Pump Station

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



Bridger Glade Pumps Rolling 12 Month Savings

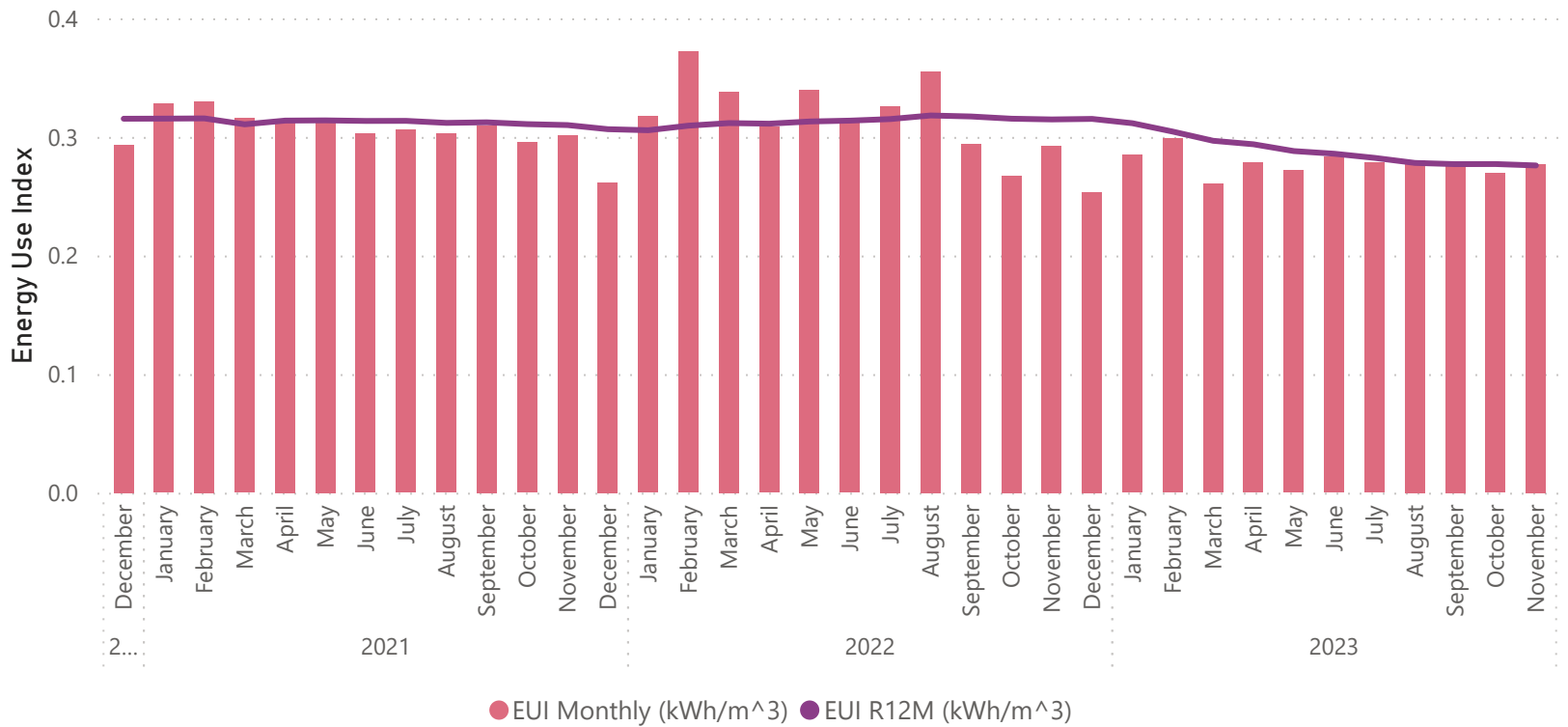


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# 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

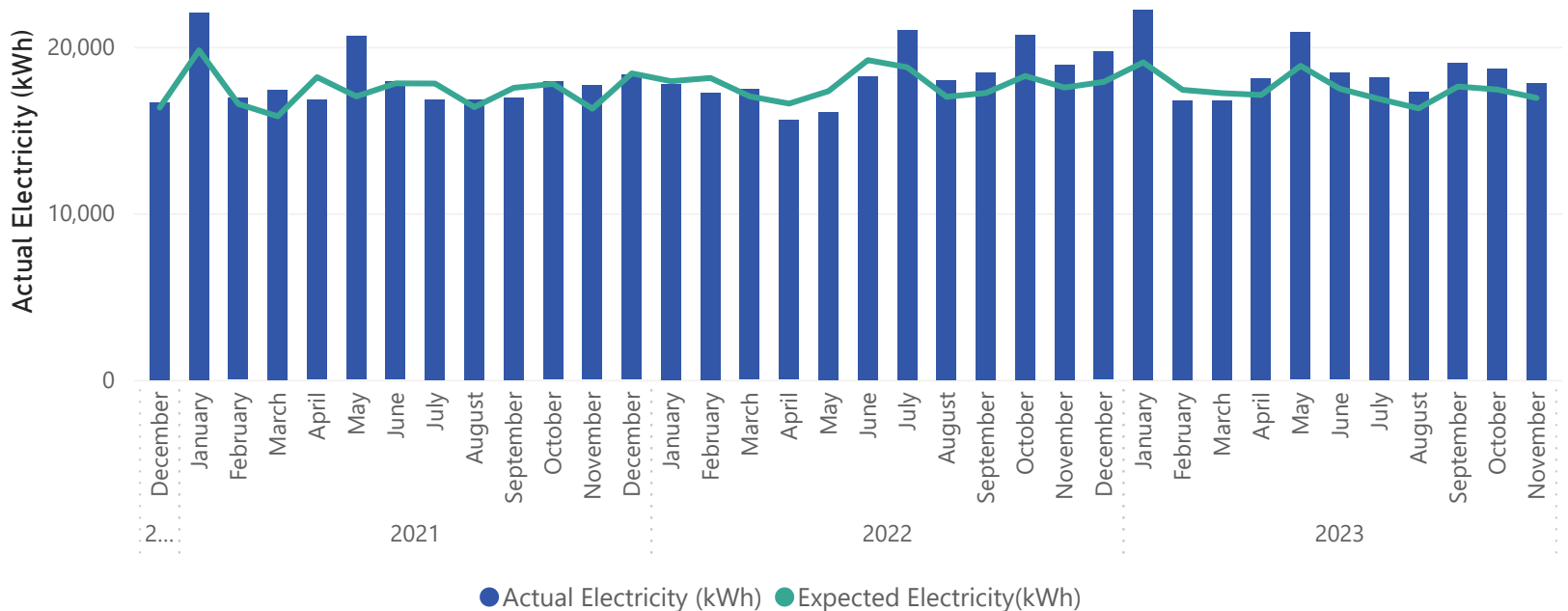
## Ohope Oxidation Ponds

<p><b>-\$164</b> Monthly Energy Cost Savings</p>	<p><b>-908</b> Elec. Savings (kWh/mo)</p>	<p><b>-5%</b> Elec. Savings (%)</p>	<p><b>-13,685</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-75</b> CO2e Savings (kg/mo)</p>
<p><b>-\$2,427</b> R12M Energy Cost Savings</p>				<p><b>-1,133</b> 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 November is greater than average for the past 12 months.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

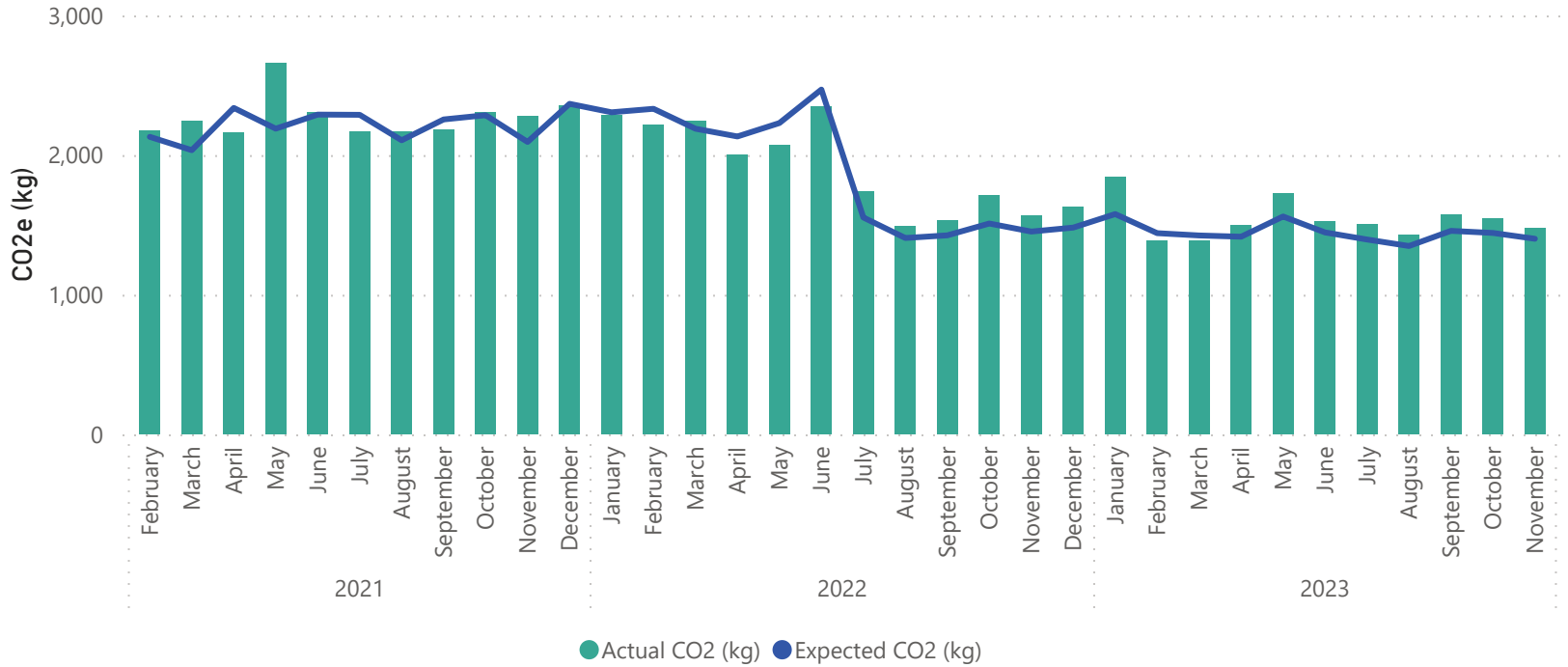


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

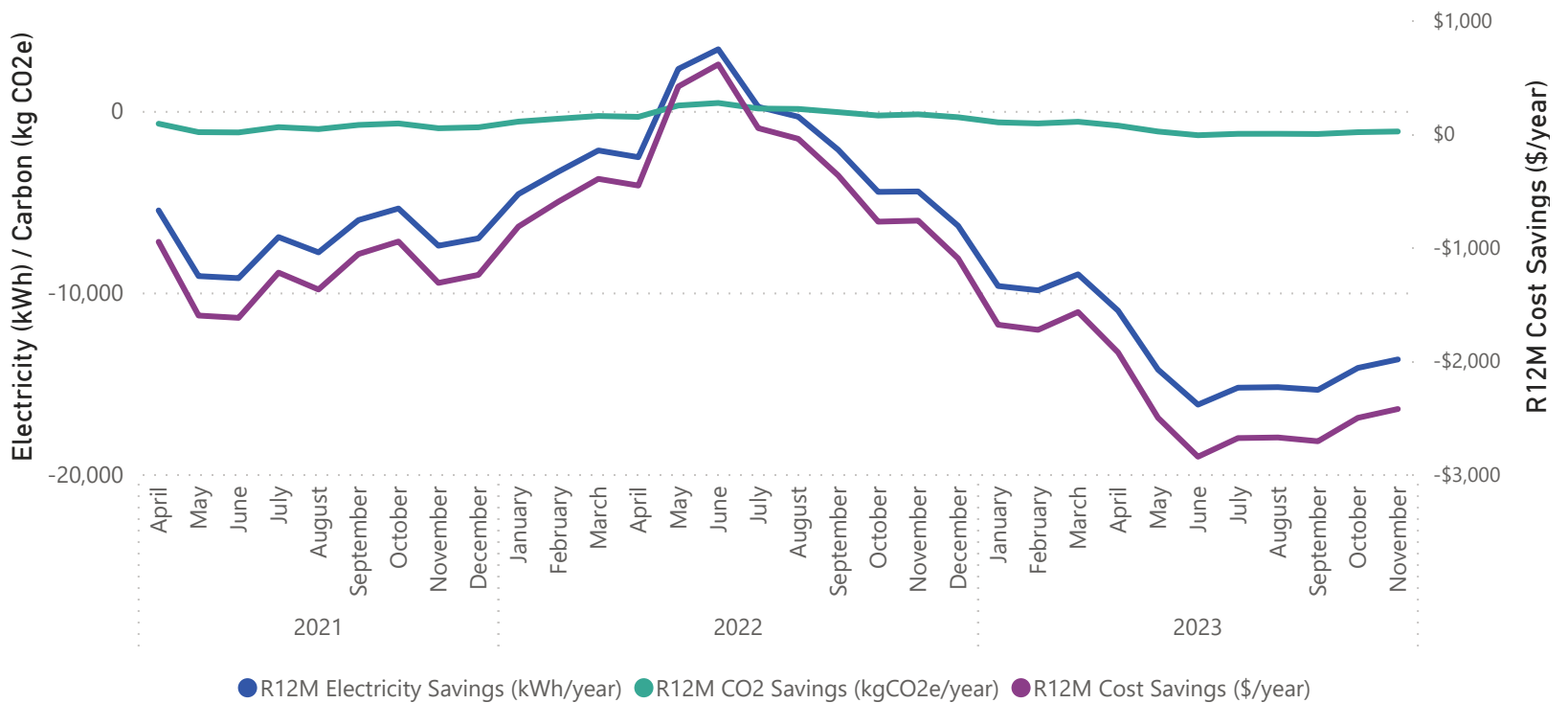
# Whakatane District Council

## Ohope Oxidation Ponds

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



Ohope Oxidation Ponds Rolling 12 Month Savings



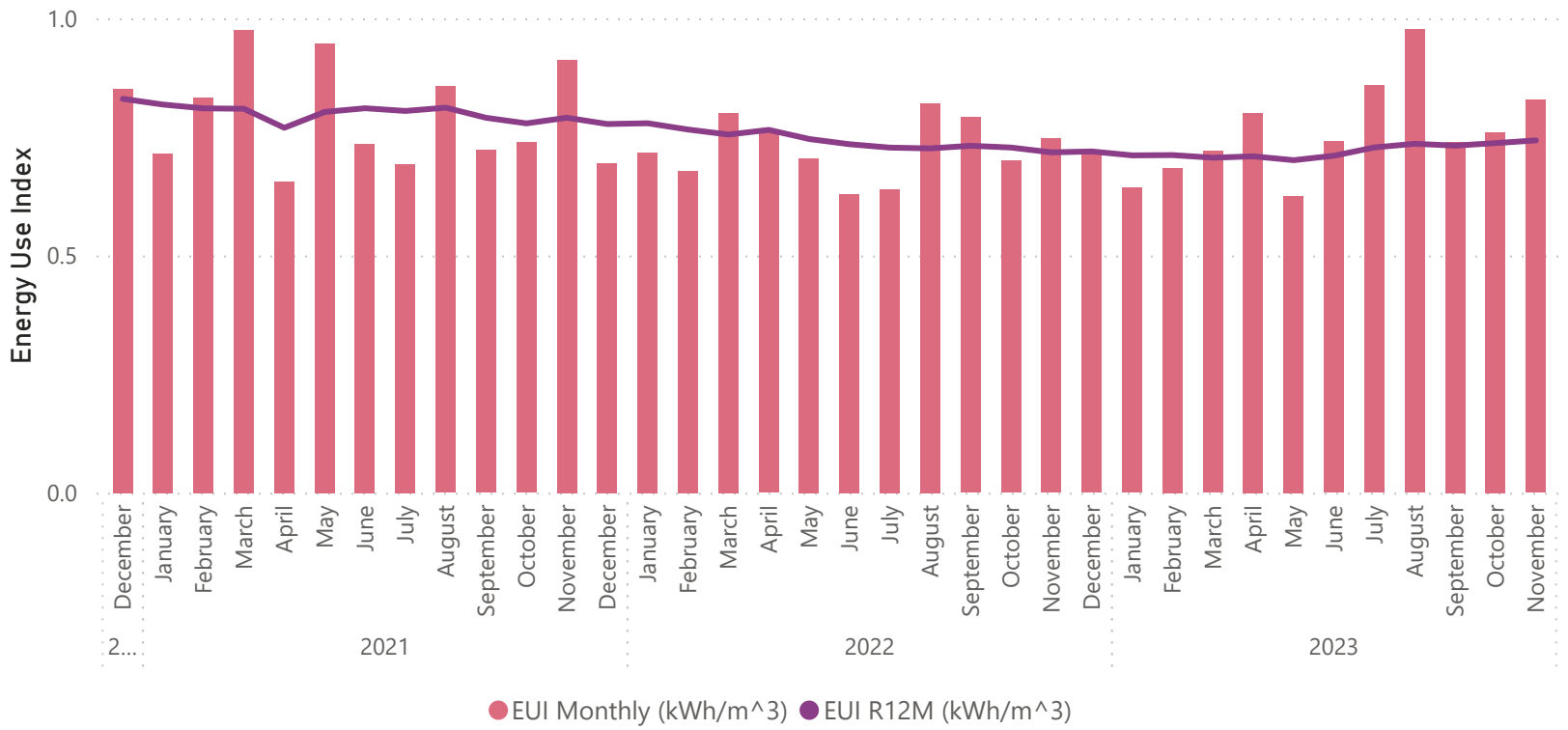
**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**



# 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

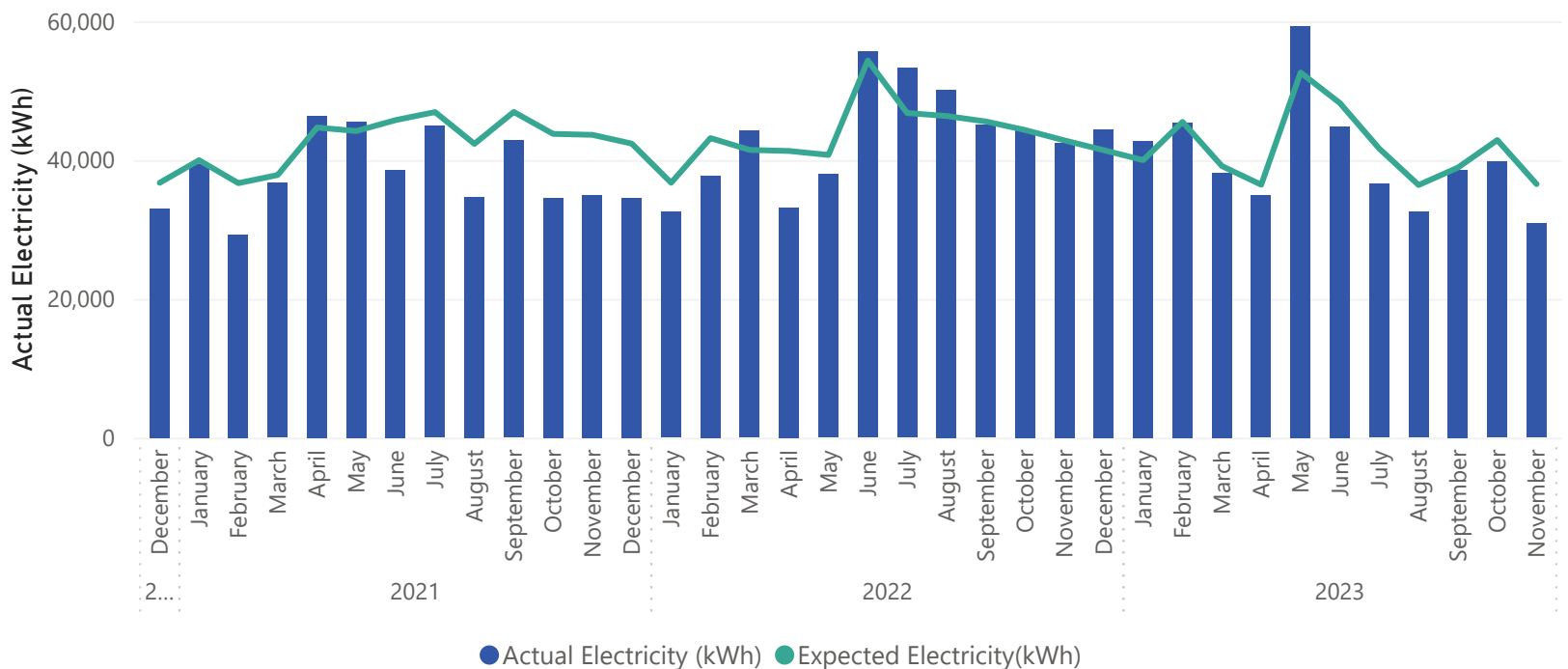
## Whakatane Oxidation Ponds

<p><b>\$956</b> Monthly Energy Cost Savings</p>	<p><b>5,656</b> Elec. Savings (kWh/mo)</p>	<p><b>15%</b> Elec. Savings (%)</p>	<p><b>11,607</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>468</b> CO2e Savings (kg/mo)</p>
<p><b>\$2,235</b> R12M Energy Cost Savings</p>				<p><b>961</b> R12M CO2e Savings (kg/yr)</p>

### Comments:

The oxidation ponds used less electricity than expected in November 2023. November 2023 was a month with lower than average rainfall, approximately 60mm 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)

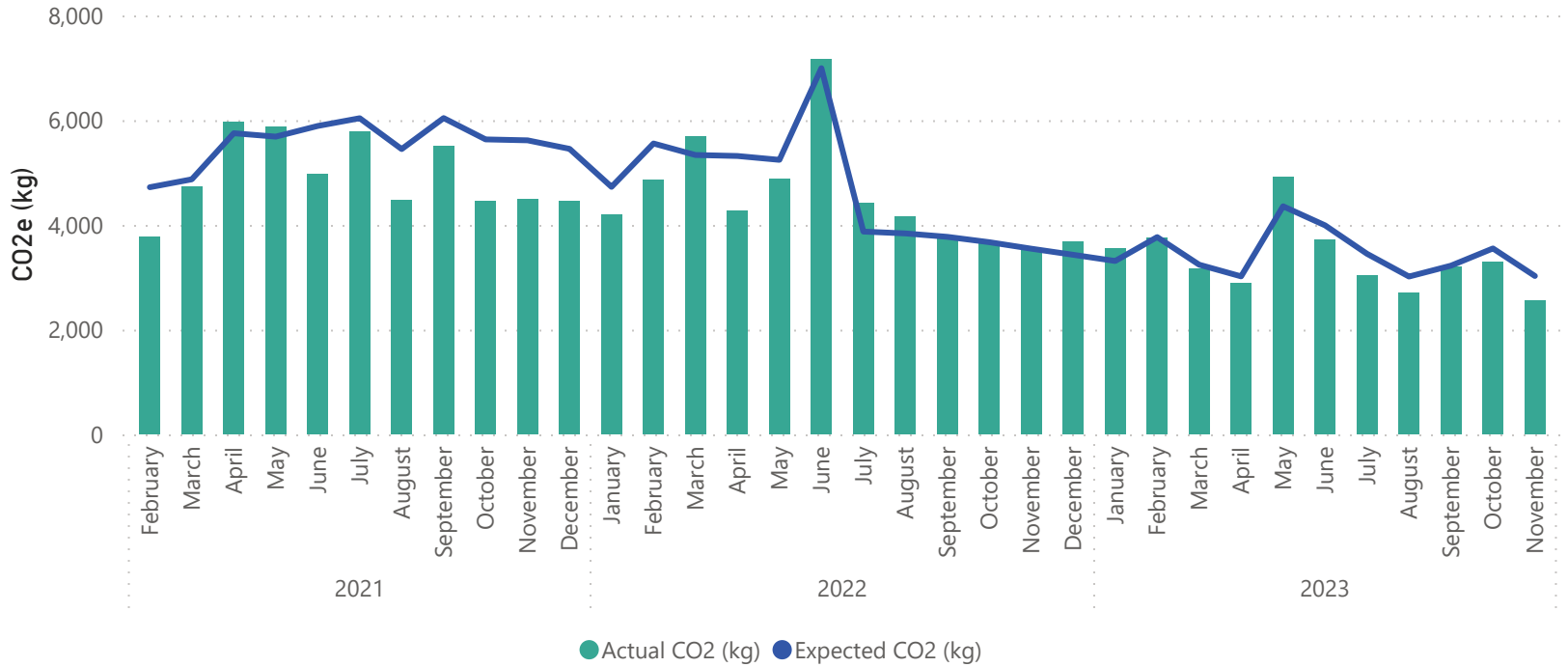


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

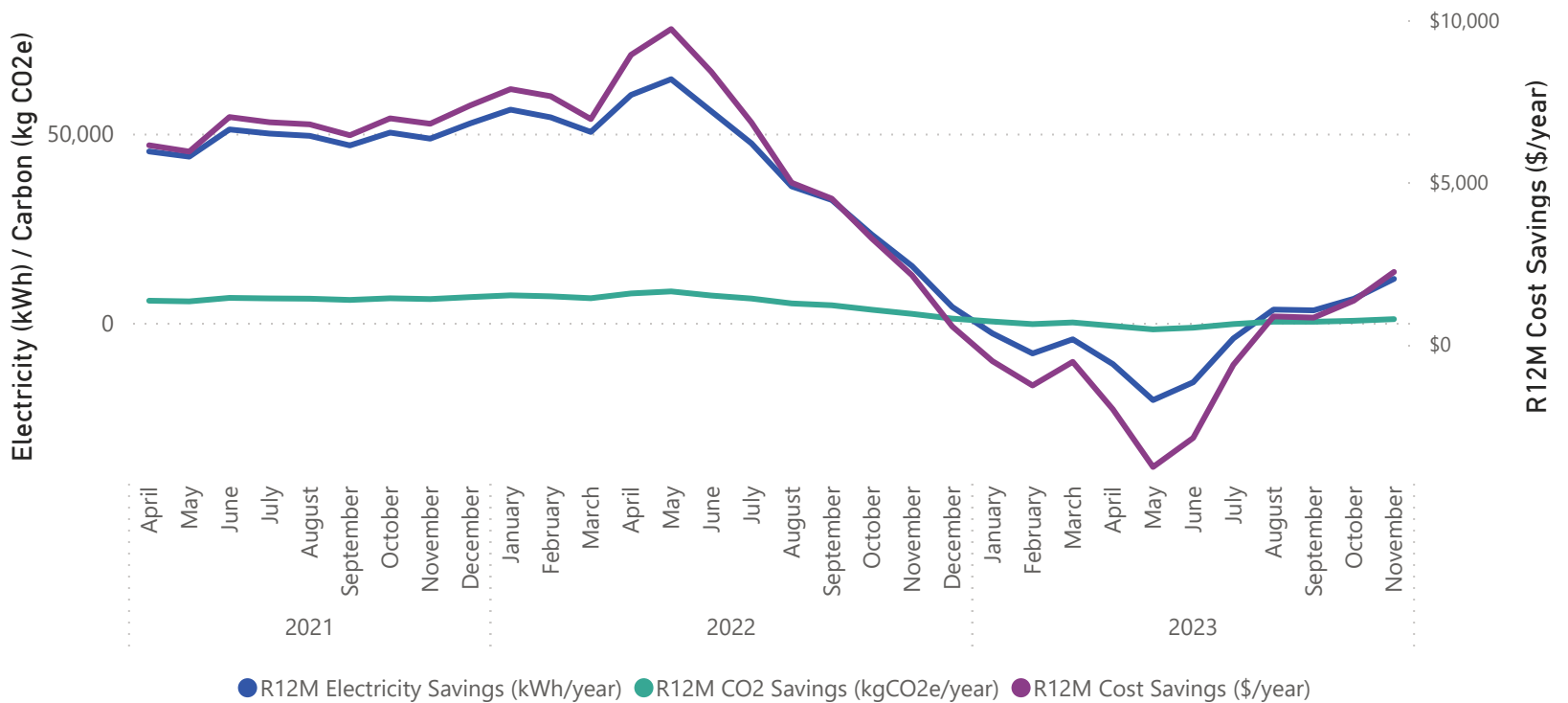
# Whakatane District Council

## Whakatane Oxidation Ponds

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



Whakatane Oxidation Ponds Rolling 12 Month Savings

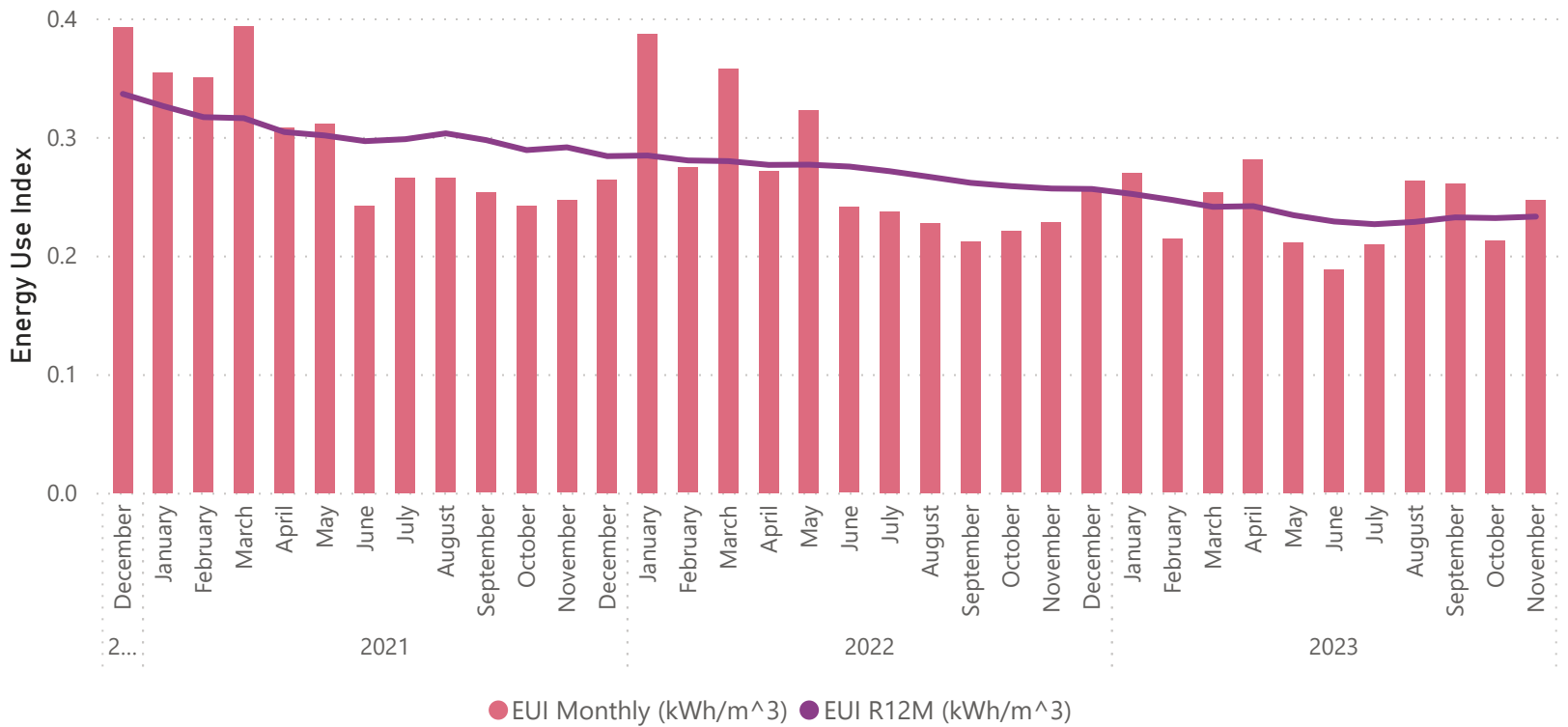


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

# Whakatane District Council

## Whakatane Oxidation Ponds

Whakatane Oxidation Ponds 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

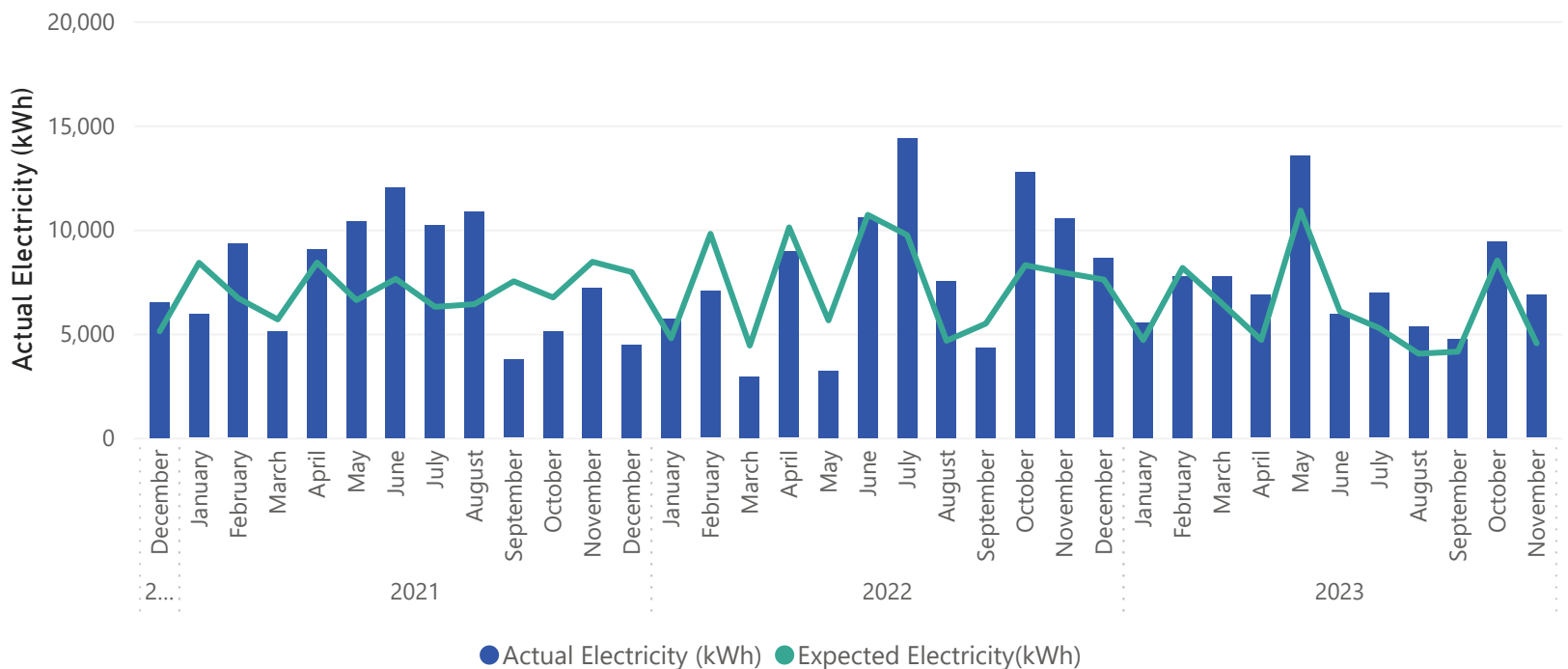
## McAlister Street and Rose Garden Pump Stations

<p><b>-\$143</b> Monthly Energy Cost Savings</p>	<p><b>-2,320</b> Elec. Savings (kWh/mo)</p>	<p><b>-51%</b> Elec. Savings (%)</p>	<p><b>-14,327</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-192</b> CO2e Savings (kg/mo)</p>
<p><b>\$932</b> R12M Energy Cost Savings</p>				<p><b>-1,186</b> R12M CO2e Savings (kg/yr)</p>

**Comments:**

The pump stations used 51% more electricity than expected this month. Approximately 65mm of rain coincided within the billing period. Rainfall over the past 12 months averaged about 130mm per month.

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

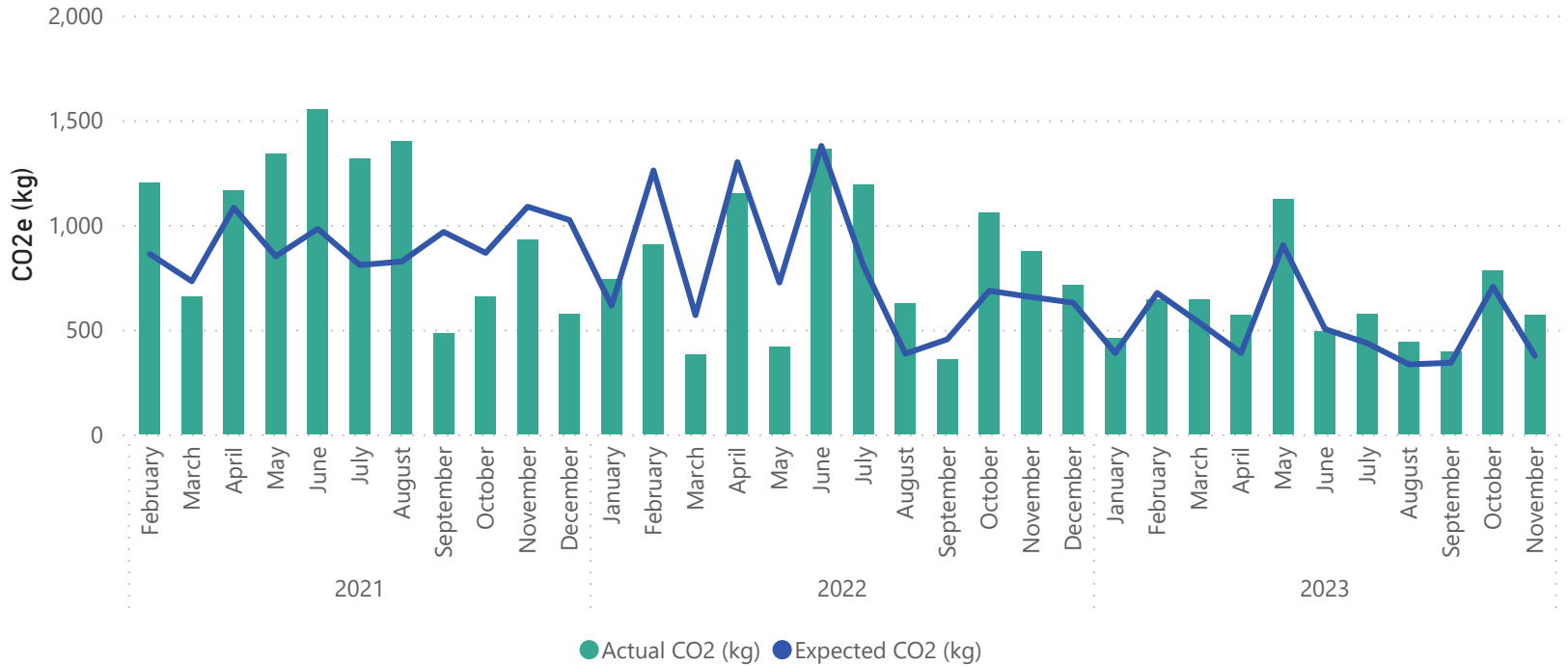


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

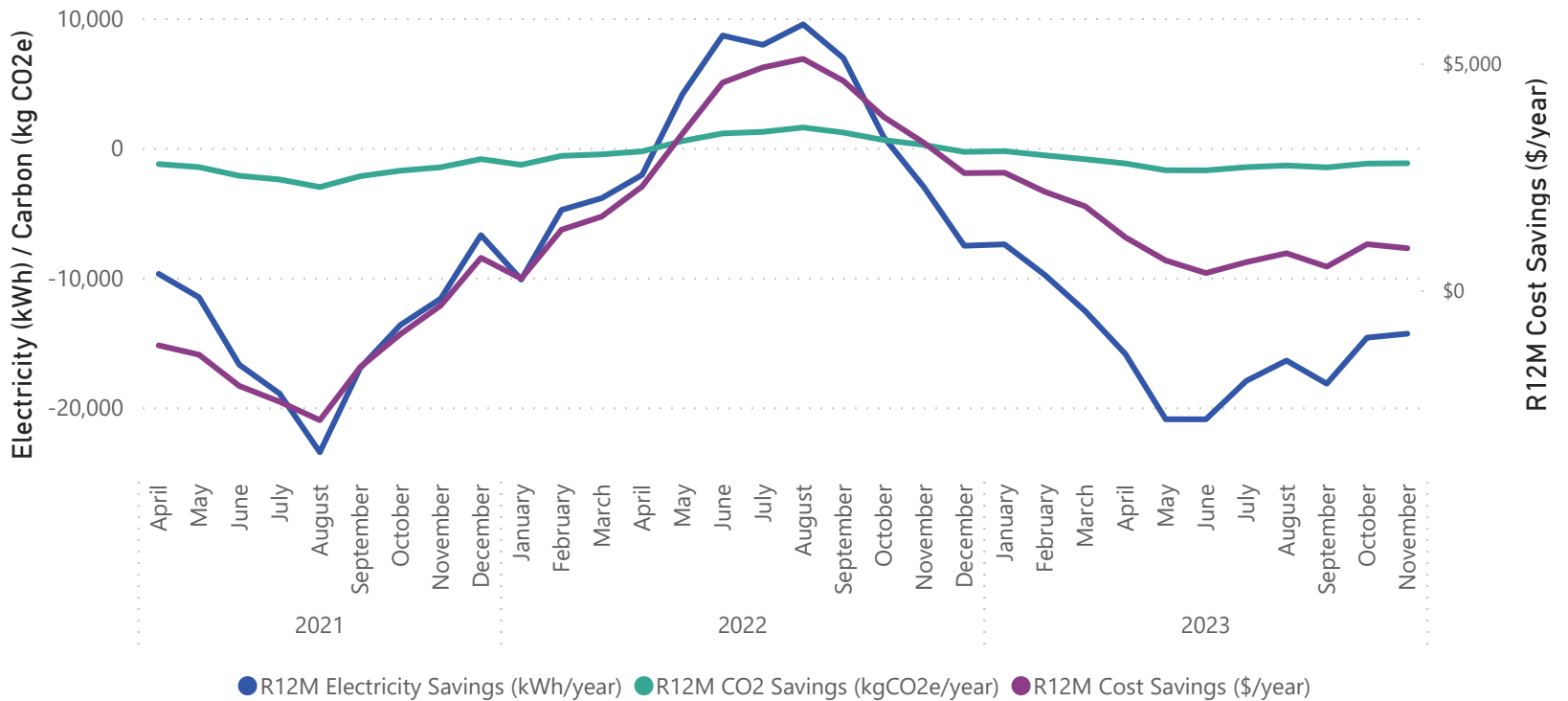
# Whakatane District Council

## 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

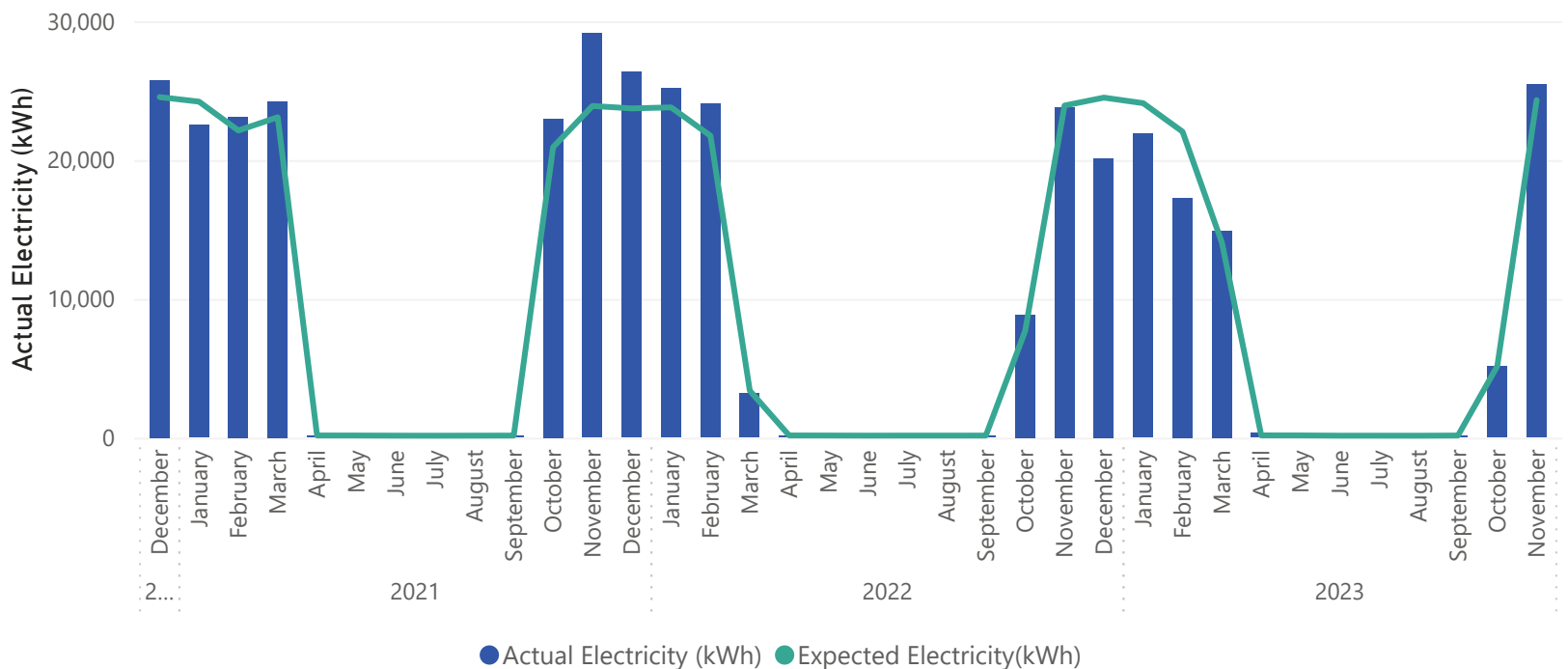
## Murupara Pools

<p><b>-\$178</b> Monthly Energy Cost Savings</p>	<p><b>-1,124</b> Elec. Savings (kWh/mo)</p>	<p><b>-5%</b> Elec. Savings (%)</p>	<p><b>9,239</b> R12M Electricity Savings (kWh/yr)</p>	<p><b>-93</b> CO2e Savings (kg/mo)</p>
<p><b>\$1,630</b> R12M Energy Cost Savings</p>				<p><b>765</b> 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 November was 5% more than expected.

Murupara Pools Electricity Use Compared to Baseline (kWh)

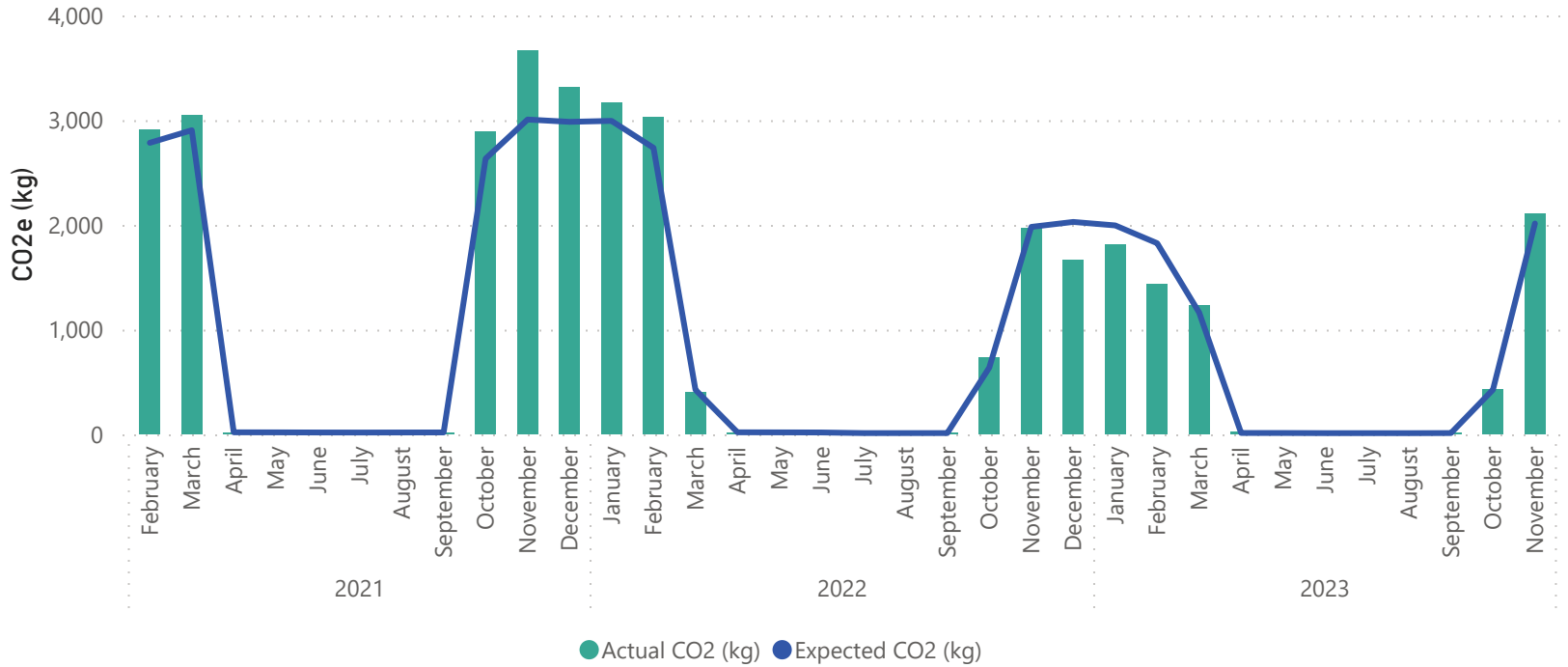


**Note:** New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time **Baselines were updated for all sites from July 2022.**

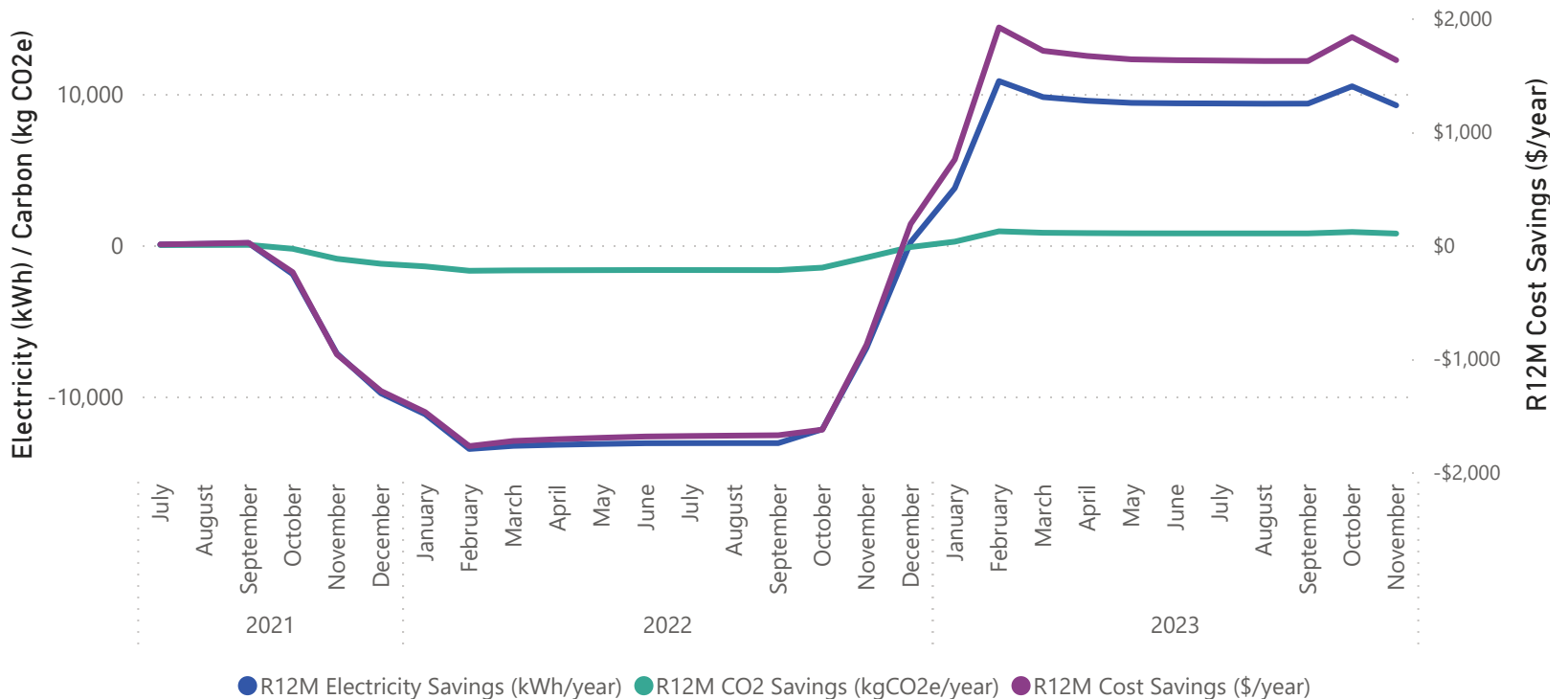
# Whakatane District Council

## 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.**