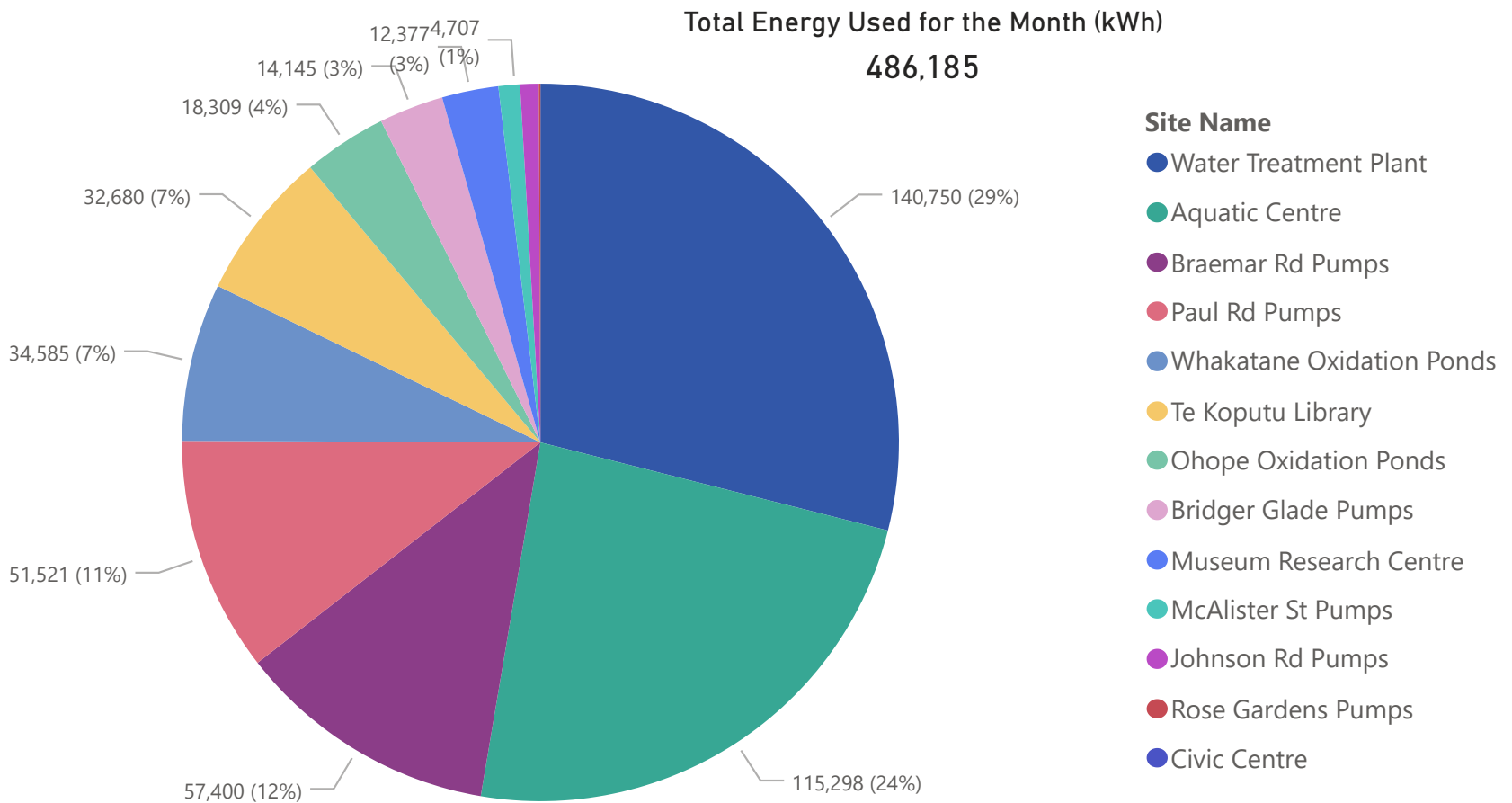


Whakatane District Council

Summary

\$4,746 Monthly Energy Cost Savings	19,593 Elec. Savings (kWh/mo)	4% Elec. Savings (%)	260,690 R12M Electricity Savings (kWh/yr)	6,721 CO2e Savings (kg/mo)
\$129,894 R12M Energy Cost Savings	19,283 Gas. Savings (kWh/mo)	47% Gas. Savings (%)	1,345,426 R12M Gas Savings (kWh/yr)	323,712 R12M CO2e Savings (kg/yr)

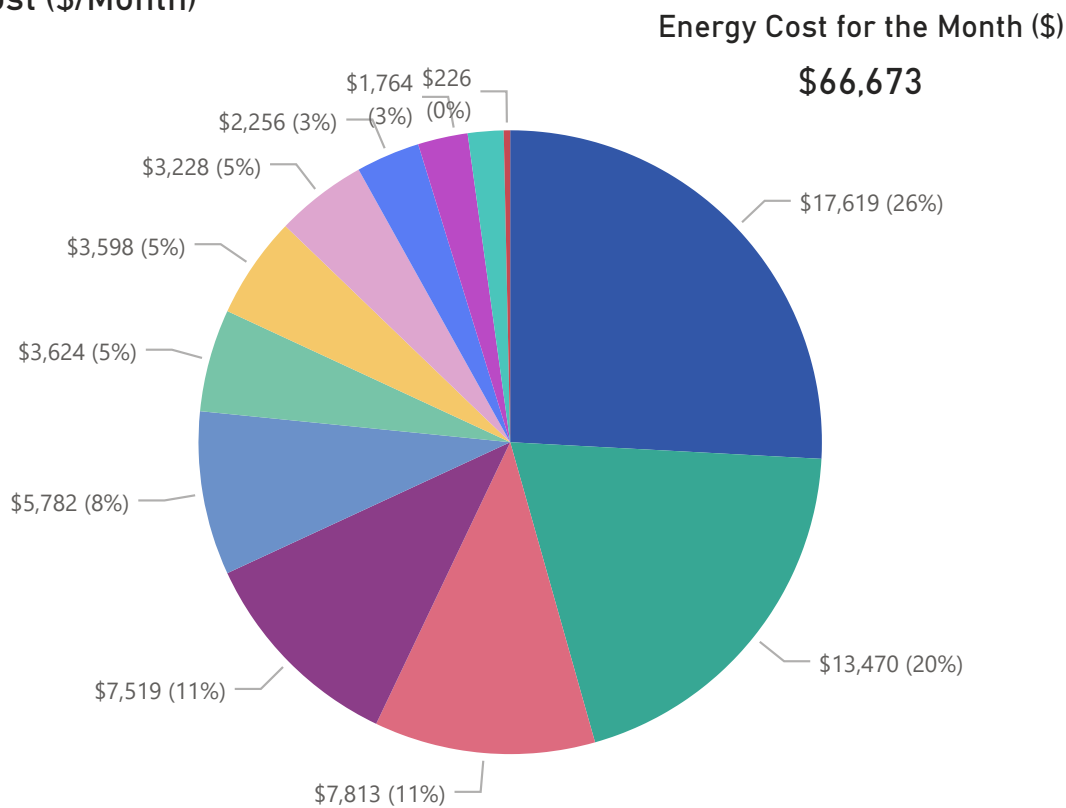
Total Energy (kWh/Month)



Whakatane District Council

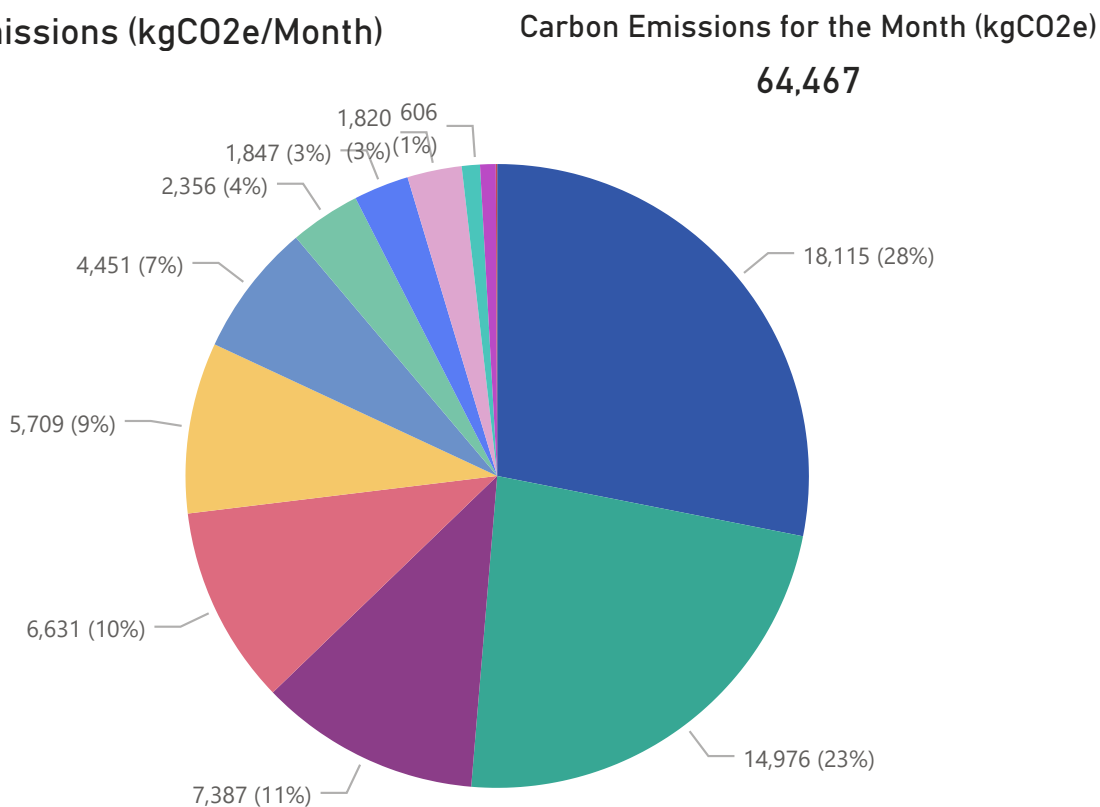
Summary

Energy Cost (\$/Month)



- Site Name**
- Water Treatment Plant
 - Aquatic Centre
 - Paul Rd Pumps
 - Braemar Rd Pumps
 - Whakatane Oxidation Ponds
 - Ohope Oxidation Ponds
 - Te Koputu Library
 - Bridger Glade Pumps
 - Museum Research Centre
 - Johnson Rd Pumps
 - Civic Centre
 - McAlister St Pumps
 - Rose Gardens Pumps

Carbon Emissions (kgCO2e/Month)

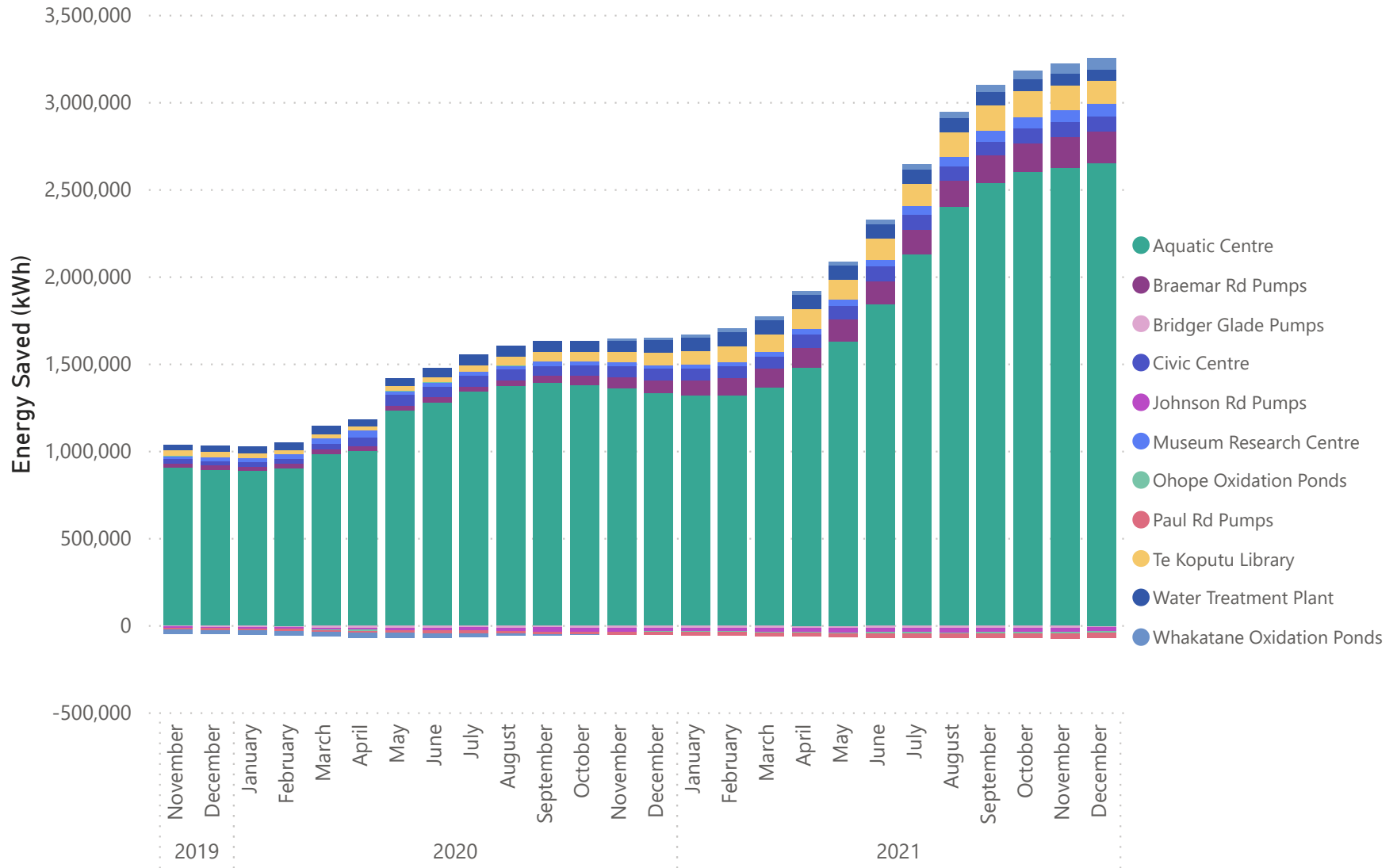


- Site Name**
- Water Treatment Plant
 - Aquatic Centre
 - Braemar Rd Pumps
 - Paul Rd Pumps
 - Te Koputu Library
 - Whakatane Oxidation Ponds
 - Ohope Oxidation Ponds
 - Museum Research Centre
 - Bridger Glade Pumps
 - McAlister St Pumps
 - Johnson Rd Pumps
 - Rose Gardens Pumps
 - Civic Centre

Whakatane District Council

Summary

Cumulative Energy Savings (kWh)

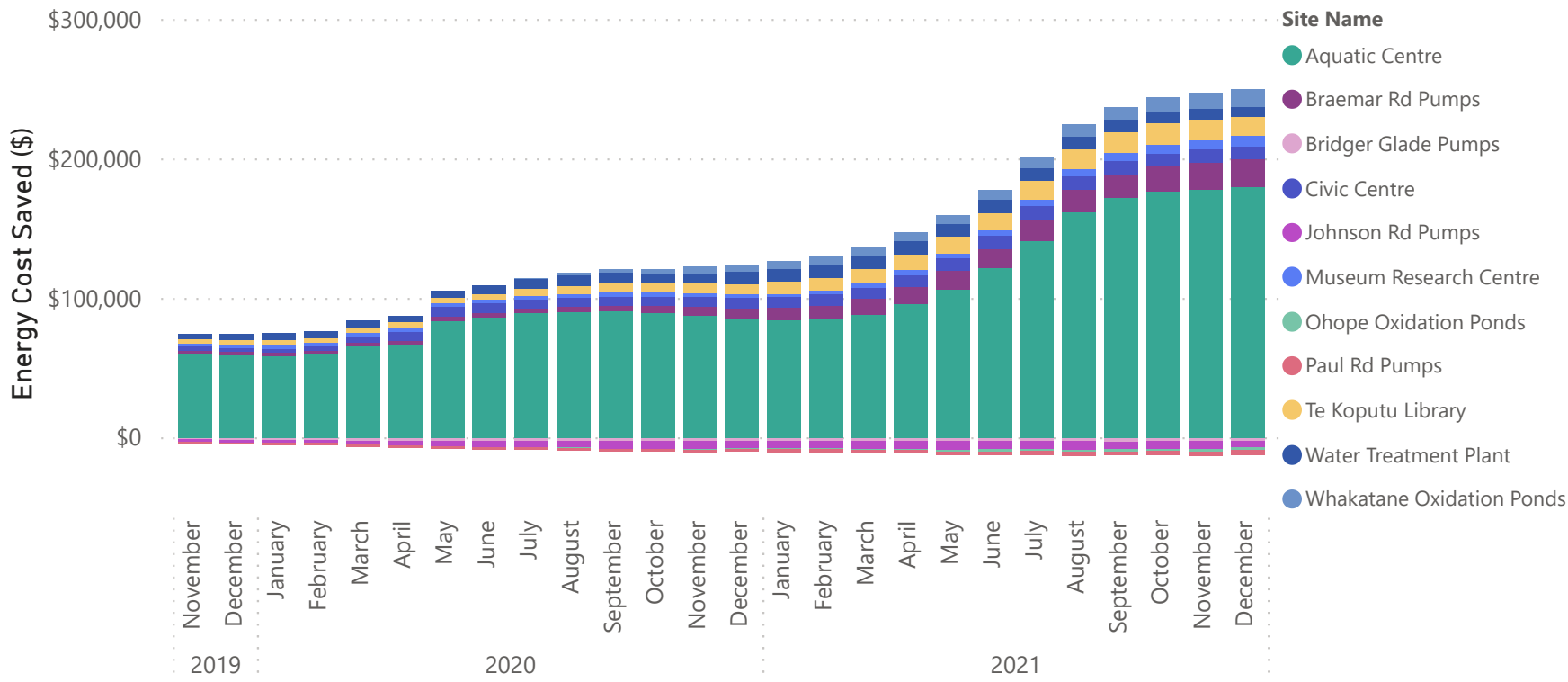


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

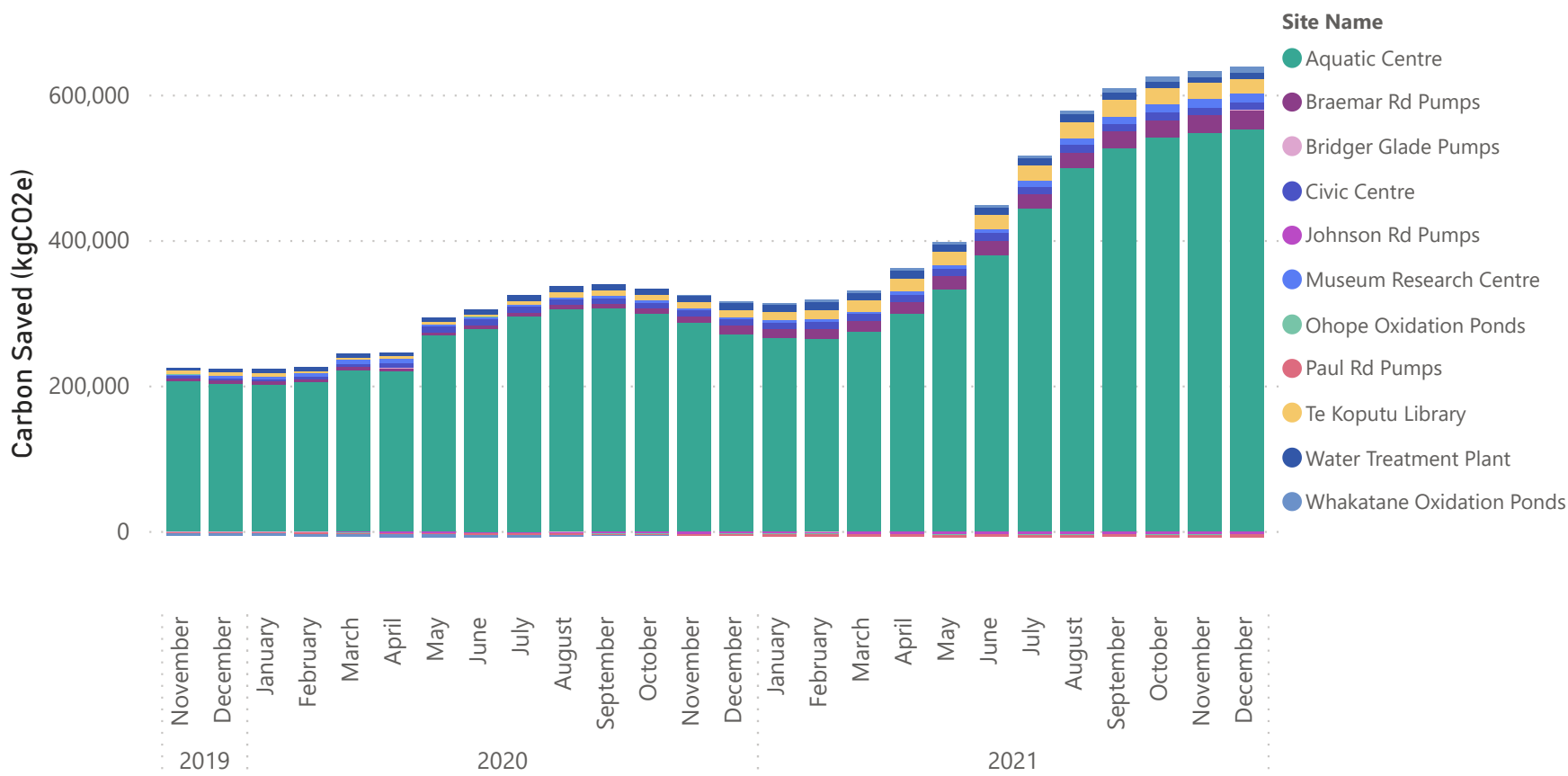
Whakatane District Council

Summary

Cumulative Energy Cost Savings (\$/month)



Cumulative Carbon Savings (kgCO2e/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

Whakatane District Council

Civic Centre

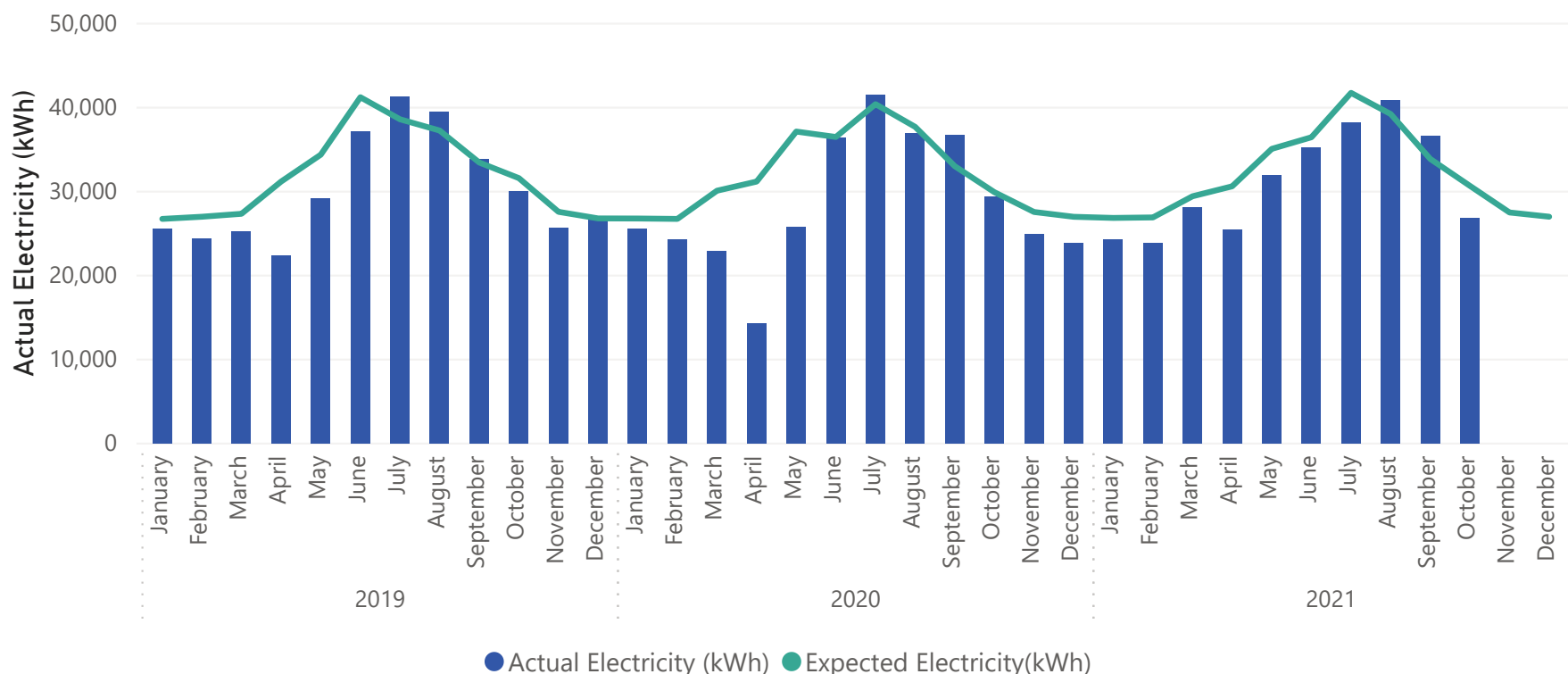
<p>\$0</p> <p>Monthly Energy Cost Savings</p>	<p>0</p> <p>Elec. Savings (kWh/mo)</p>	<p>0%</p> <p>Elec. Savings (%)</p>	<p>19,693</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>0</p> <p>CO2e Savings (kg/mo)</p>
<p>\$2,246</p> <p>R12M Energy Cost Savings</p>				<p>2,211</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

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

There were metering errors for the Civic Centre in November and December 2021, no usage was recorded and the Civic Centre has not been invoiced. The electricity retailer, Mercury, is currently working towards a resolution. Monitoring will be updated when data becomes available. The metering issues have not yet been resolved as of 18 Jan 2022.

Civic Centre Electricity Use Compared to Baseline (kWh)

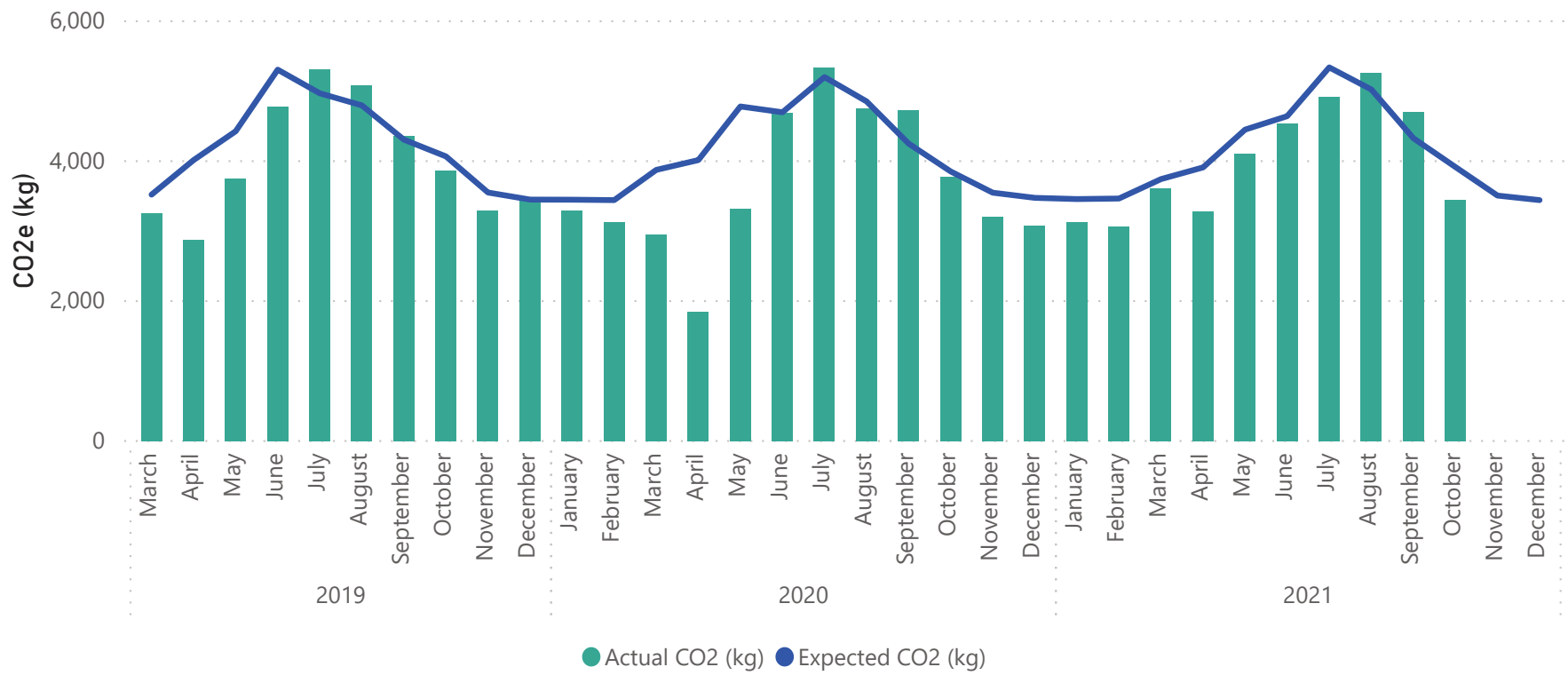


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

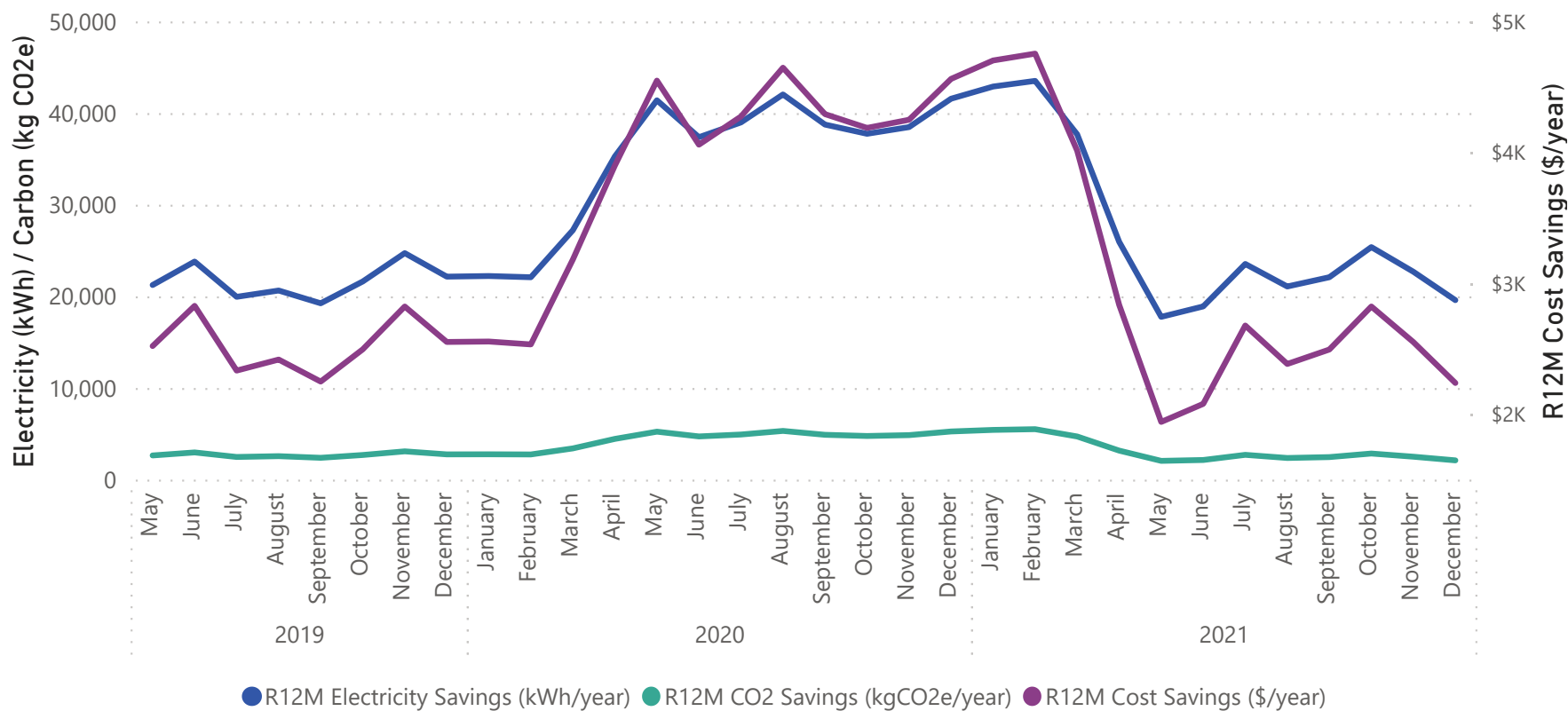
Whakatane District Council

Civic Centre

Civic Centre Carbon Emissions Compared to Baseline (kg CO2e)



Civic Centre Cumulative Rolling 12 Month Savings

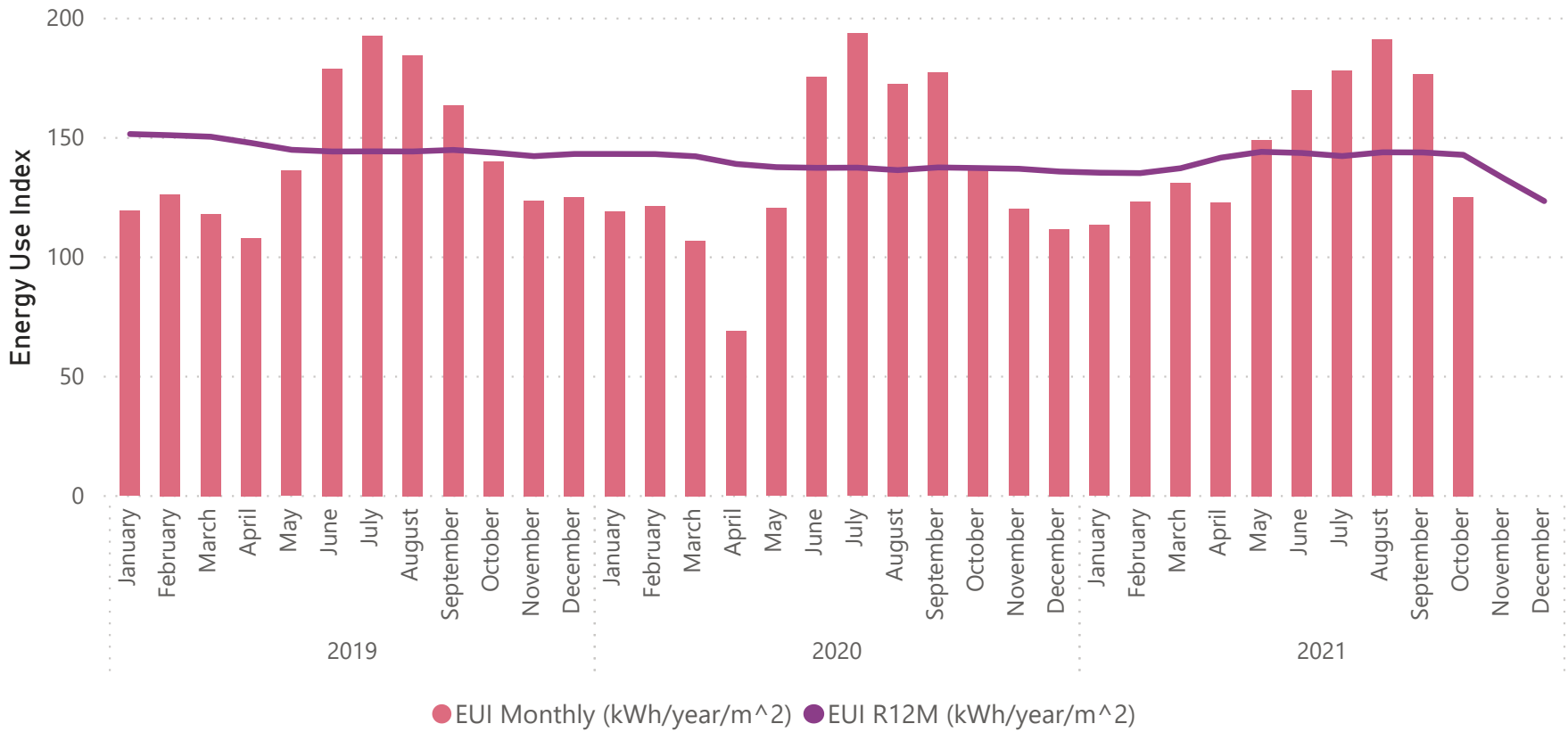


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

Aquatic Centre

\$1,655 Monthly Energy Cost Savings	-2,591 Elec. Savings (kWh/mo)	-2% Elec. Savings (%)	23,950 R12M Electricity Savings (kWh/yr)	5,488 CO2e Savings (kg/mo)
\$94,727 R12M Energy Cost Savings	26,696 Gas. Savings (kWh/mo)	94% Gas. Savings (%)	1,291,864 R12M Gas Savings (kWh/yr)	281,365 R12M CO2e Savings (kg/yr)

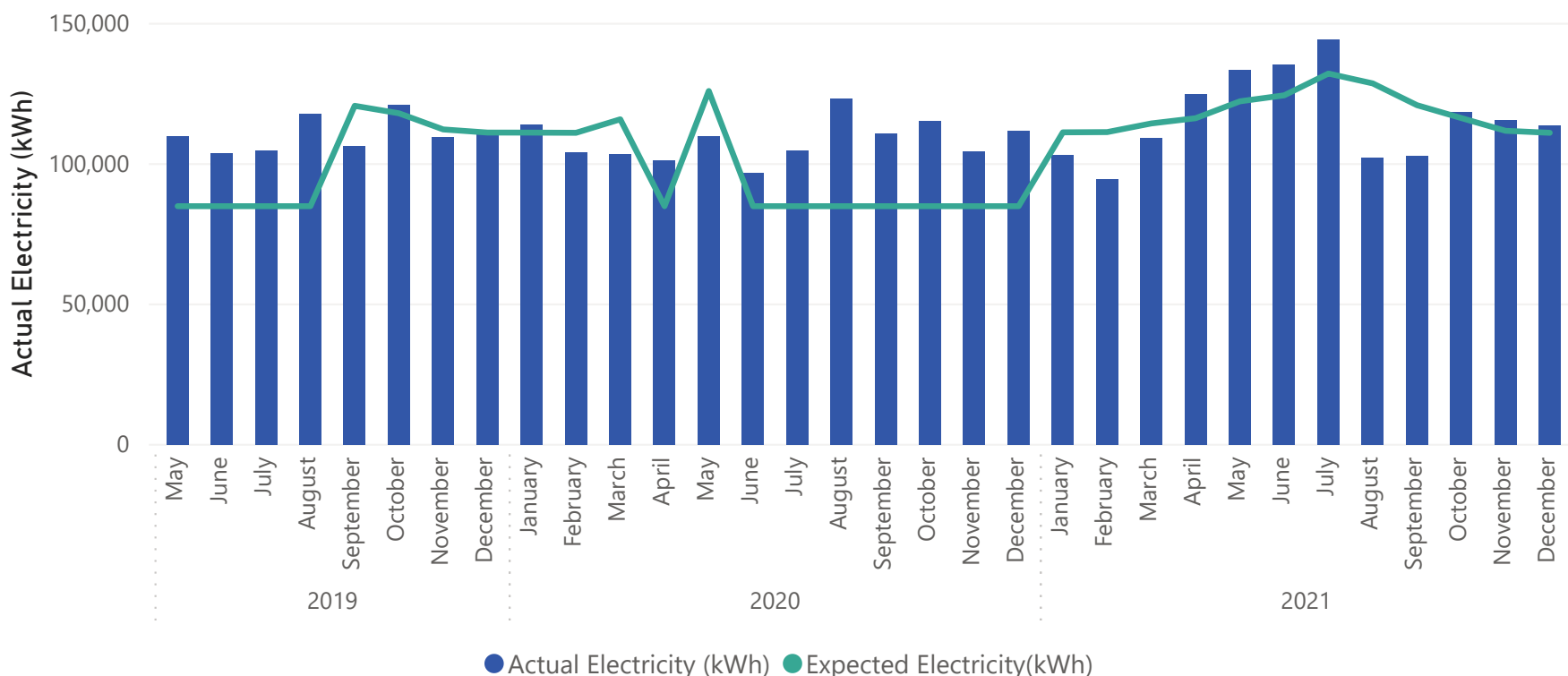
Comments:

The outdoor pool is now open year-round and uses a baseline that reflects this change.

Electricity use was slightly more than baseline in December 2021, however, natural gas savings are 94% for the month.

Rolling 12 month savings have reached a new record, with approximately \$95,000 saved per year.

Aquatic Centre Electricity Use Compared to Baseline (kWh)

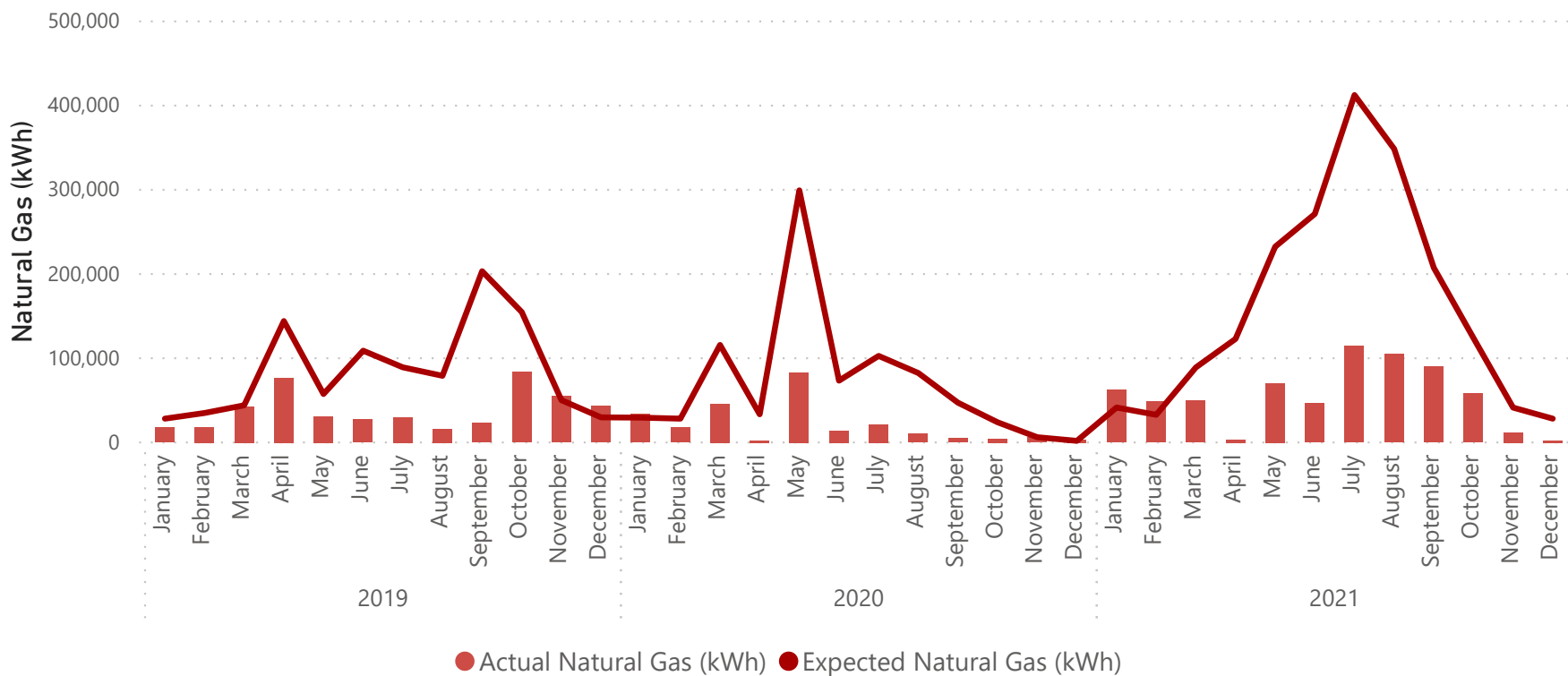


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

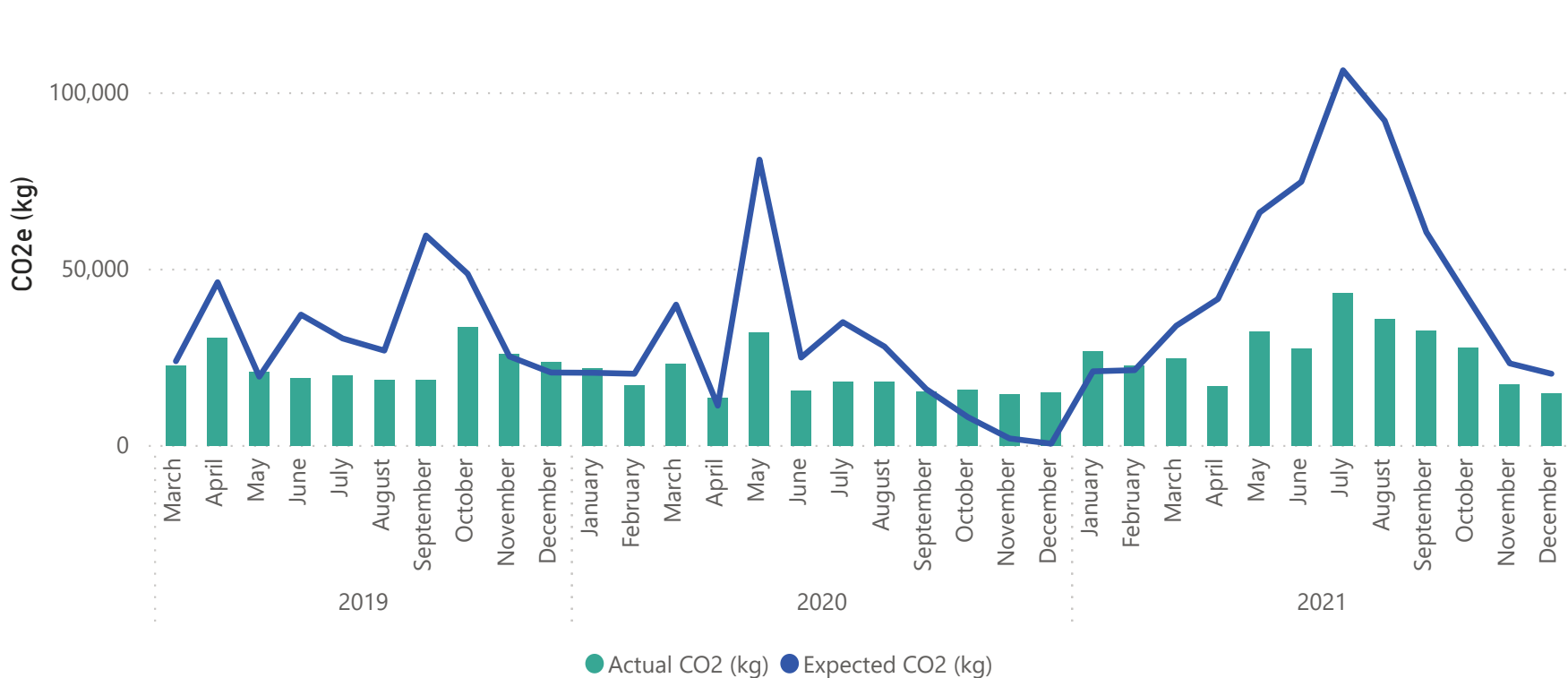
Whakatane District Council

Aquatic Centre

Aquatic Centre Natural Gas Compared to Baseline (kWh)



Aquatic Centre Carbon Emissions Compared to Baseline (kg CO2e)

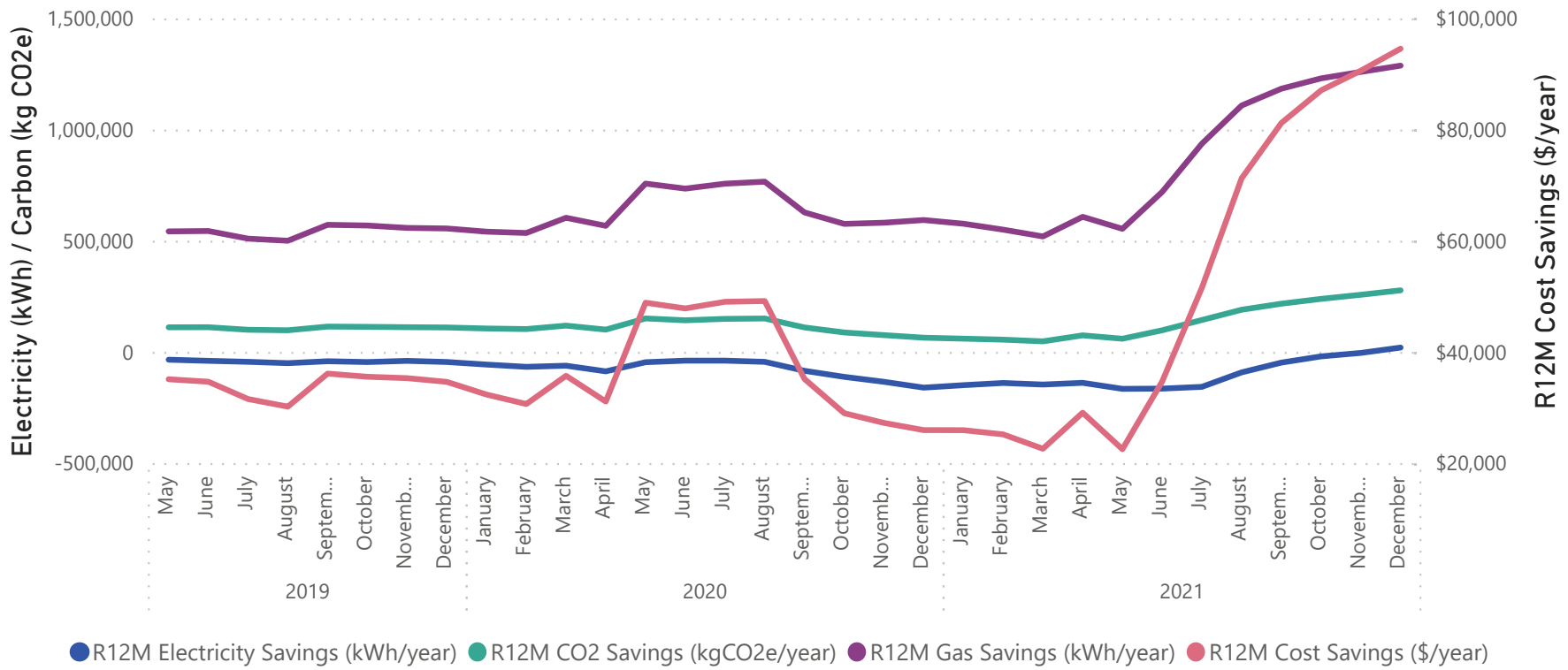


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

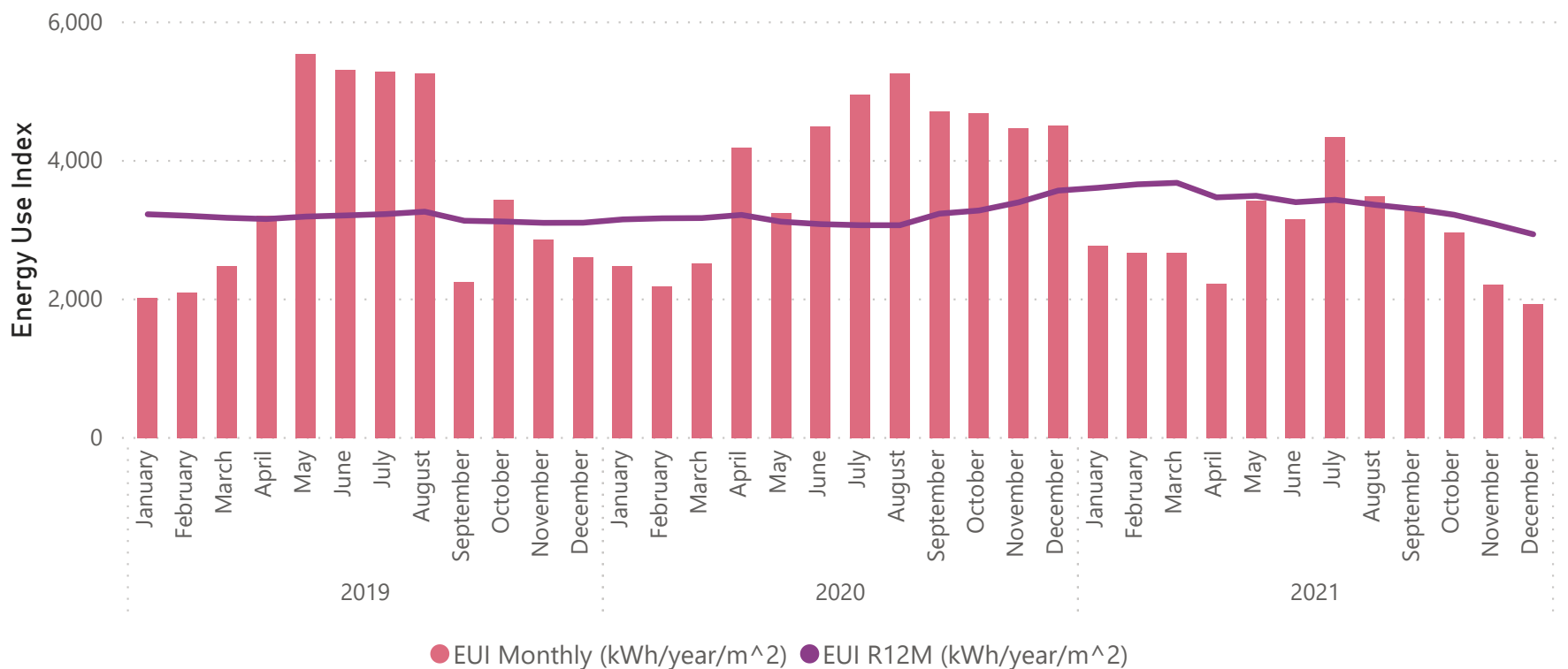
Whakatane District Council

Aquatic Centre

Aquatic Centre Cumulative 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

Whakatane District Council

Te Koputu Library

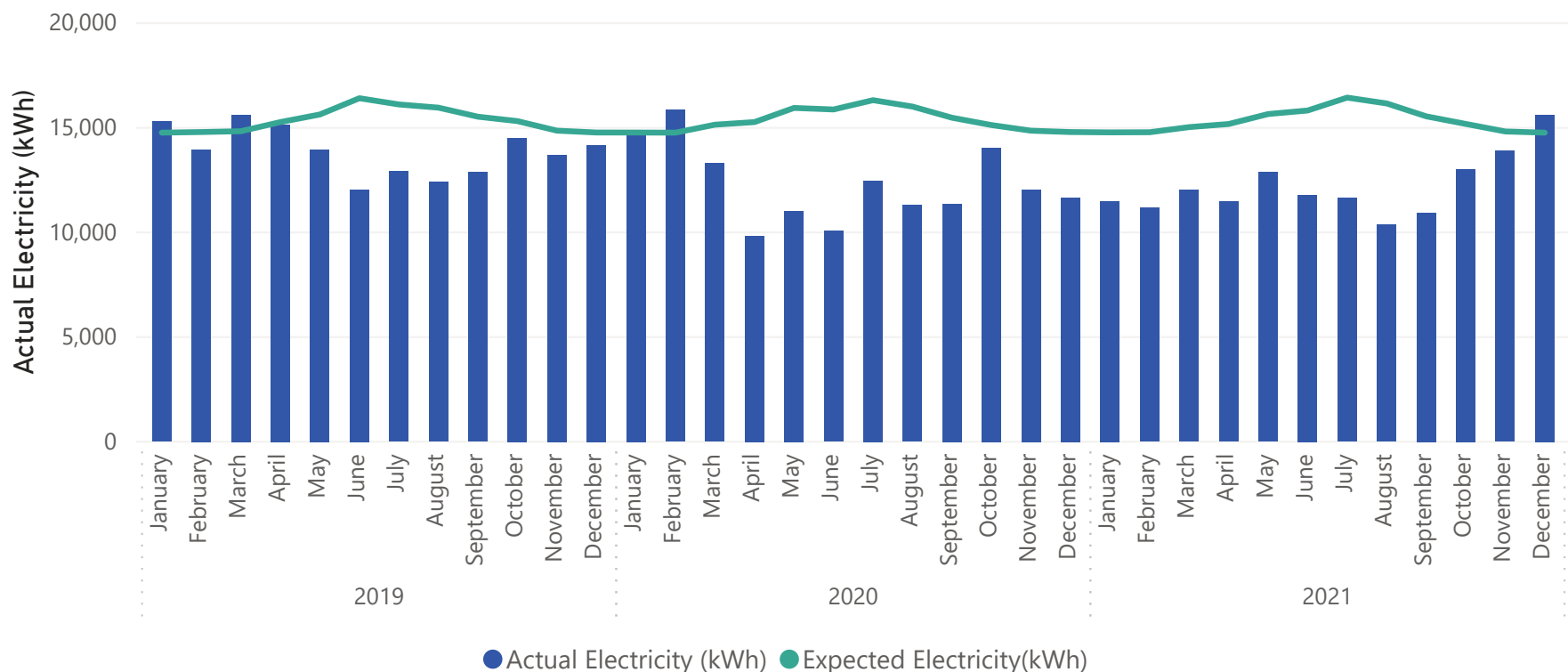
<p>-\$857</p> <p>Monthly Energy Cost Savings</p>	<p>-847</p> <p>Elec. Savings (kWh/mo)</p>	<p>-6%</p> <p>Elec. Savings (%)</p>	<p>37,879</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-2,390</p> <p>CO2e Savings (kg/mo)</p>
<p>\$5,960</p> <p>R12M Energy Cost Savings</p>	<p>-10,542</p> <p>Gas. Savings (kWh/mo)</p>	<p>-162%</p> <p>Gas. Savings (%)</p>	<p>22,890</p> <p>R12M Gas Savings (kWh/yr)</p>	<p>9,891</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Electricity and natural gas use have both increased compared to recent months. Gas use was 160% more than expected even though December was a warmer month on average. Electricity was above baseline for the first time since February 2020.

Dehumidification loads were significant in December, and this requires both electricity for cooling, as well as gas for re-heat. Control of relative humidity has improved, however further investigation is needed to understand if this is optimised or if the cooling and heating coils are fighting each other excessively.

Te Koputu Library Electricity Use Compared to Baseline (kWh)

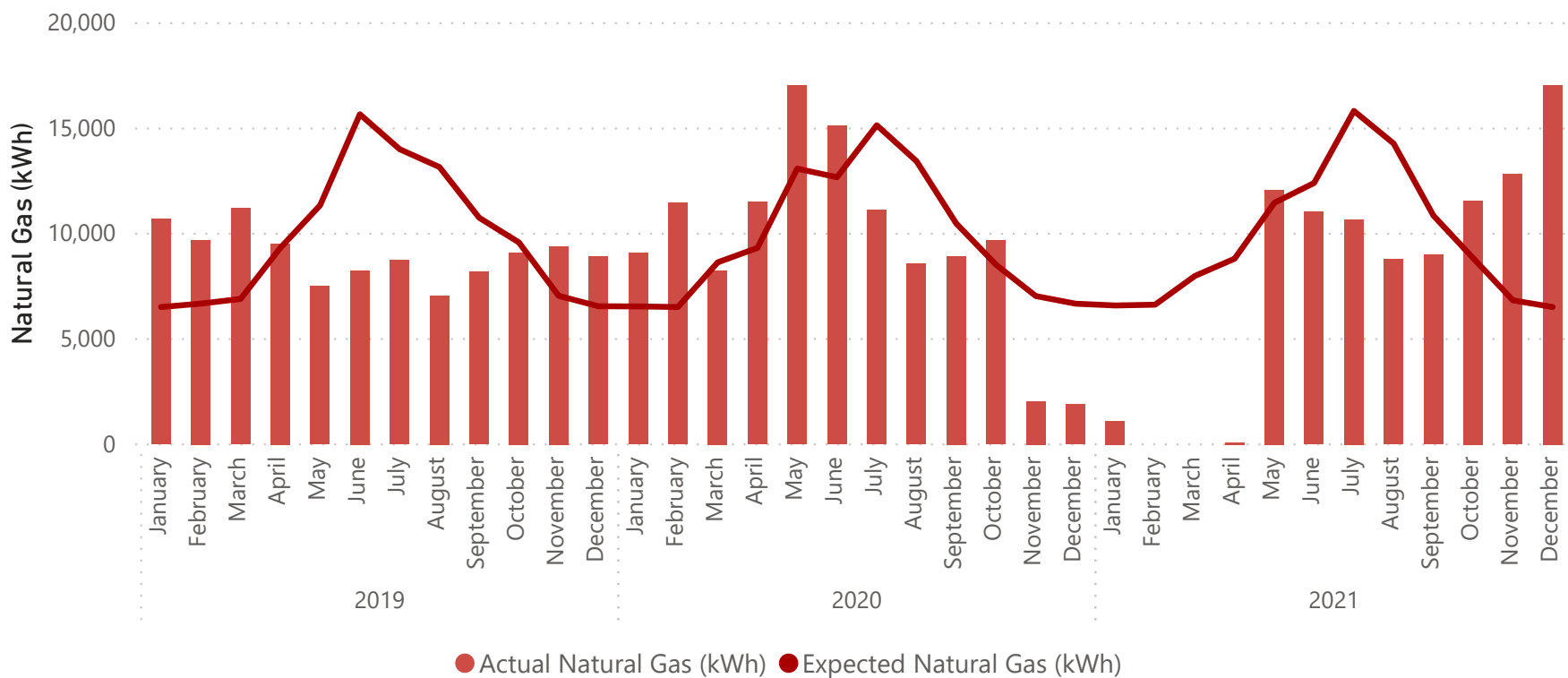


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

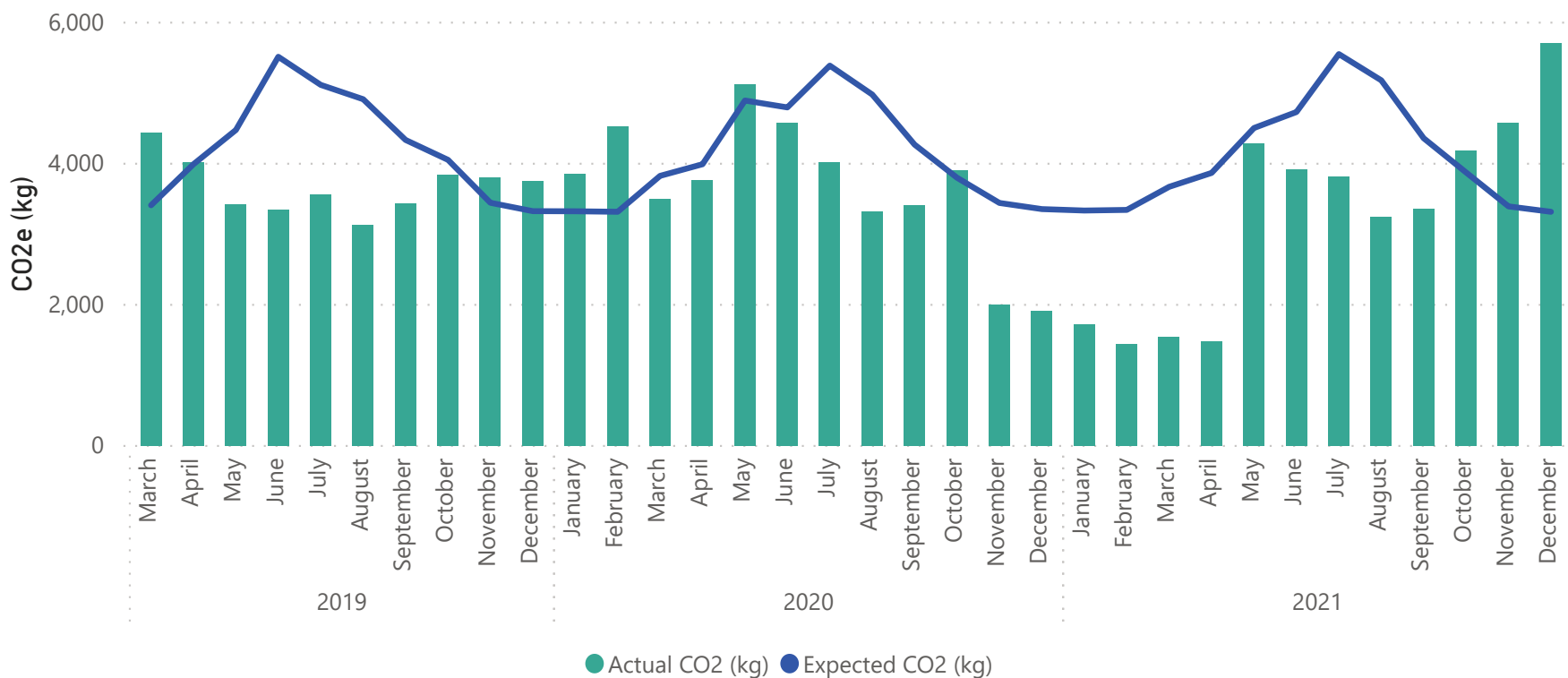
Whakatane District Council

Te Koputu Library

Te Koputu Library Natural Gas Compared to Baseline (kWh)



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

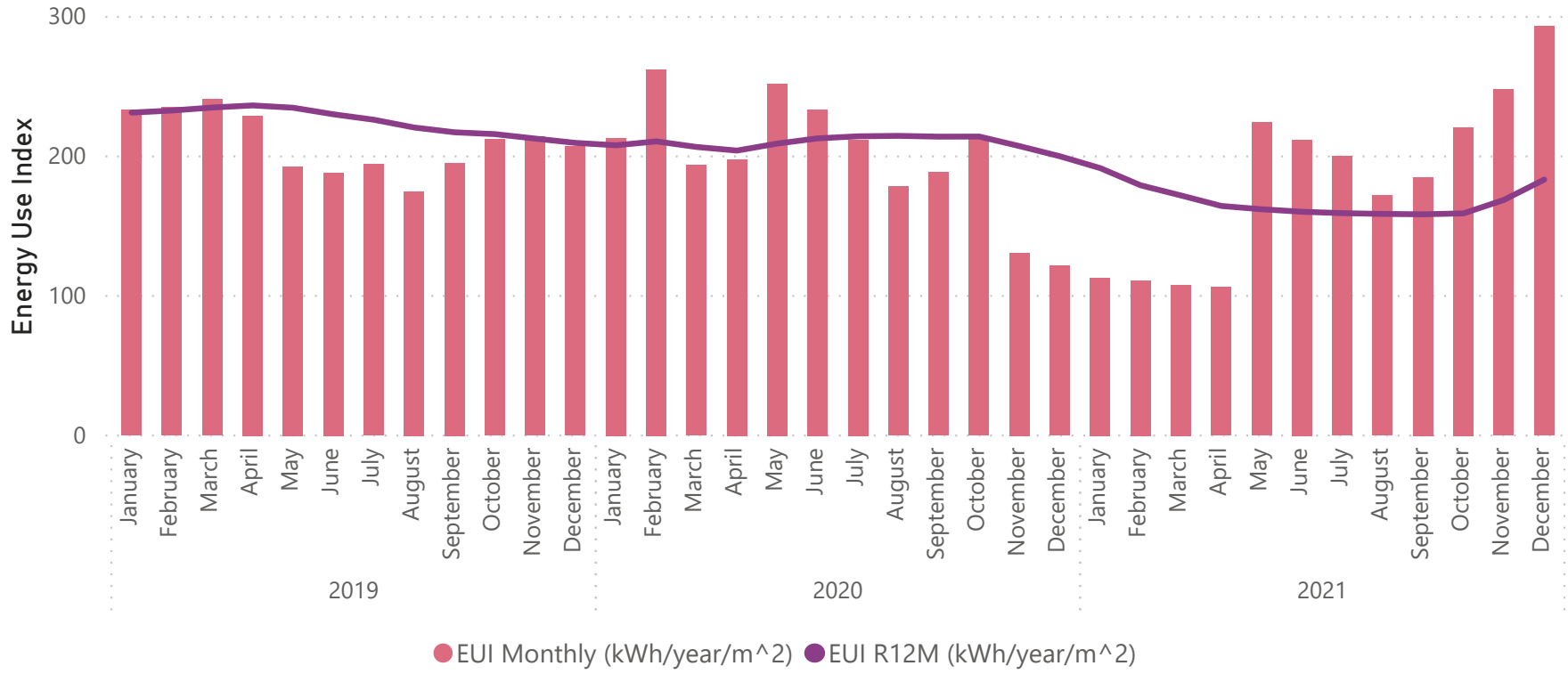


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

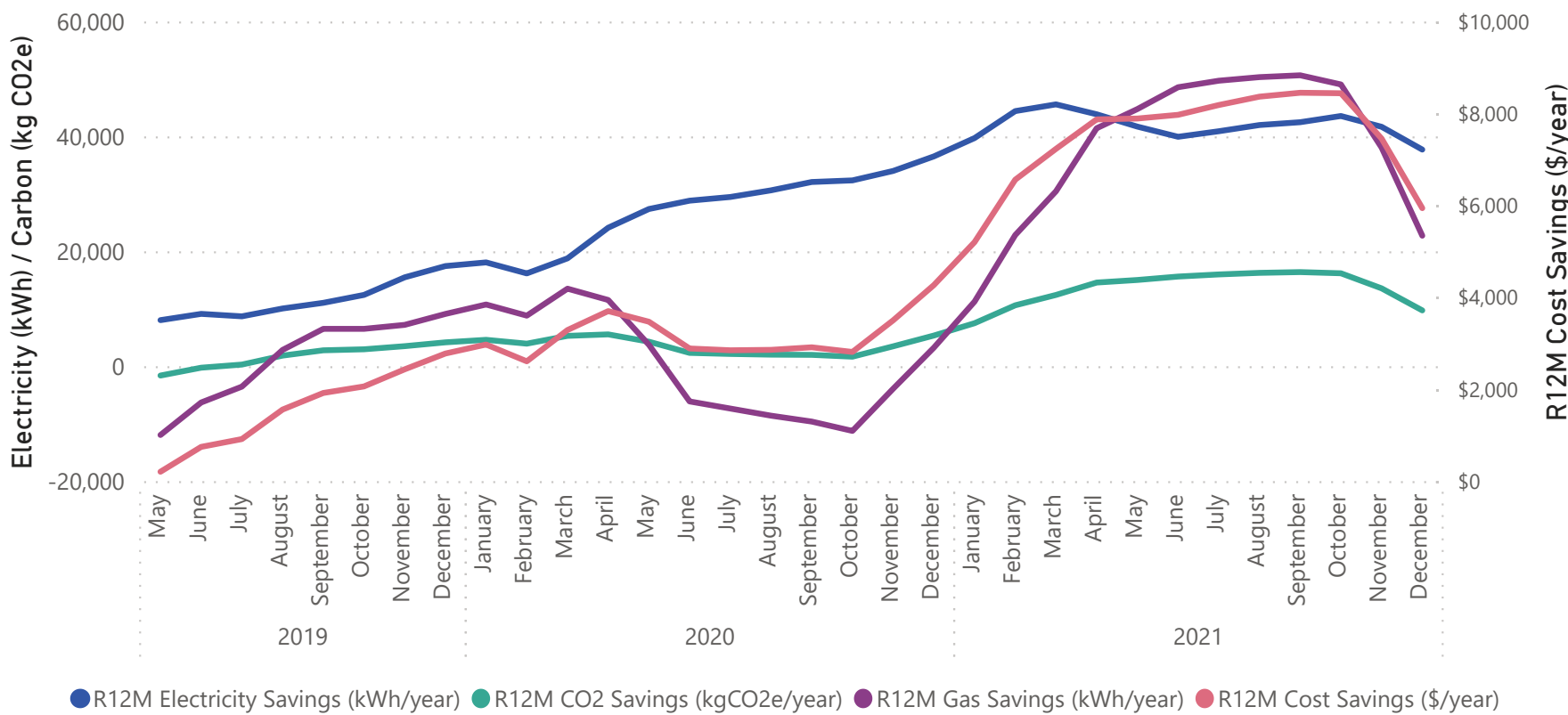
Whakatane District Council

Te Koputu Library

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



Te Koputu Library 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

Whakatane District Council

Museum and Research Centre

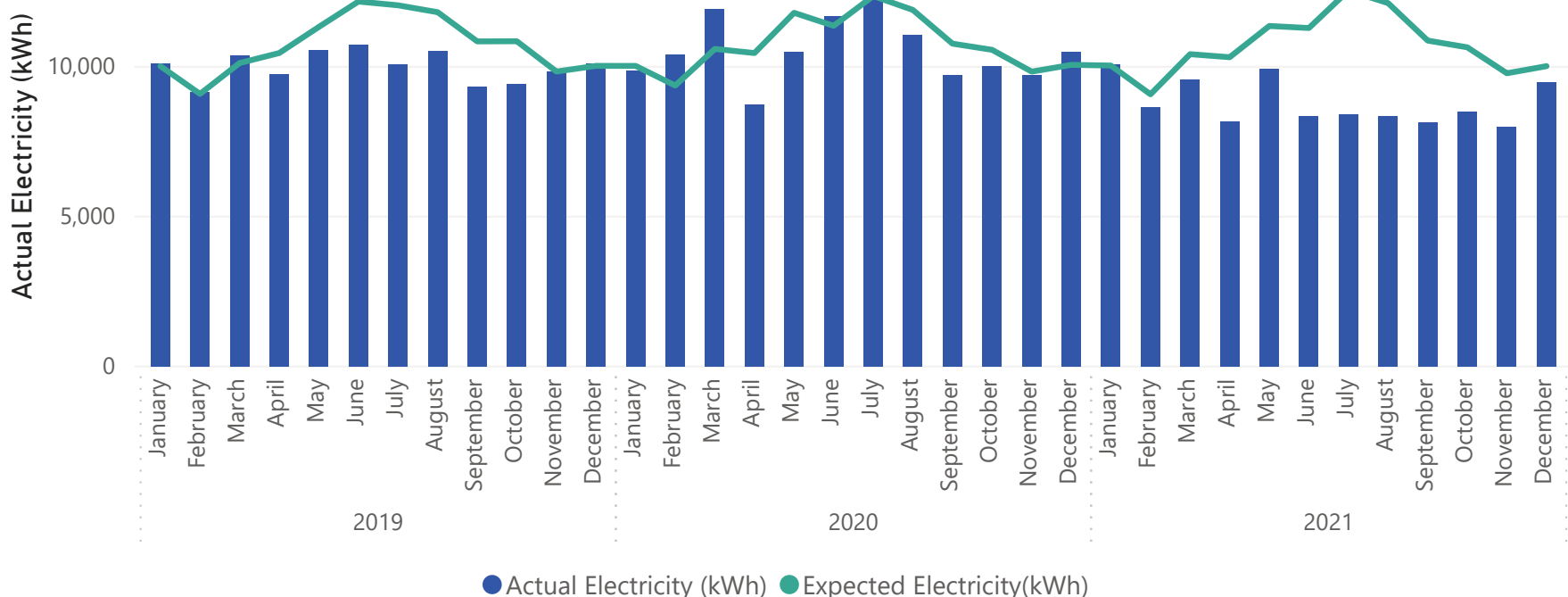
\$282 Monthly Energy Cost Savings	528 Elec. Savings (kWh/mo)	5% Elec. Savings (%)	22,843 R12M Electricity Savings (kWh/yr)	746 CO2e Savings (kg/mo)
\$4,822 R12M Energy Cost Savings	3,129 Gas. Savings (kWh/mo)	52% Gas. Savings (%)	30,673 R12M Gas Savings (kWh/yr)	9,590 R12M CO2e Savings (kg/yr)

Comments:

The trend for the rolling 12 month EUI continues to drop for the Museum and Research Centre and rolling 12 month savings have also increased this month, which is good.

Some savings reflect the recent work on the HVAC system, operation of the air handling unit has been changed as well as modifying timing on air conditioning. Some of the savings in August and September 2021 are likely attributed to the Museum and Research Centre being closed to public during alert level 3.

Museum Research Centre Electricity Use Compared to Baseline (kWh)

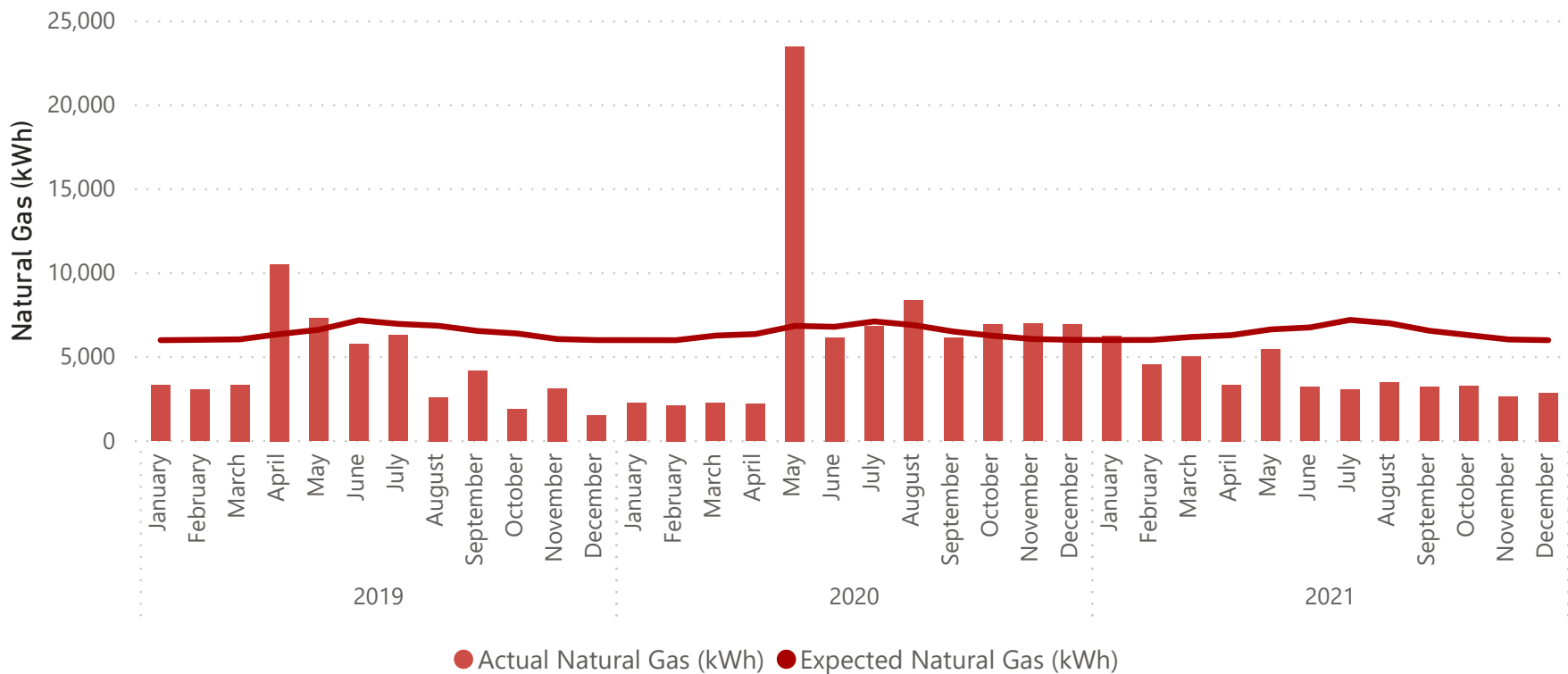


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

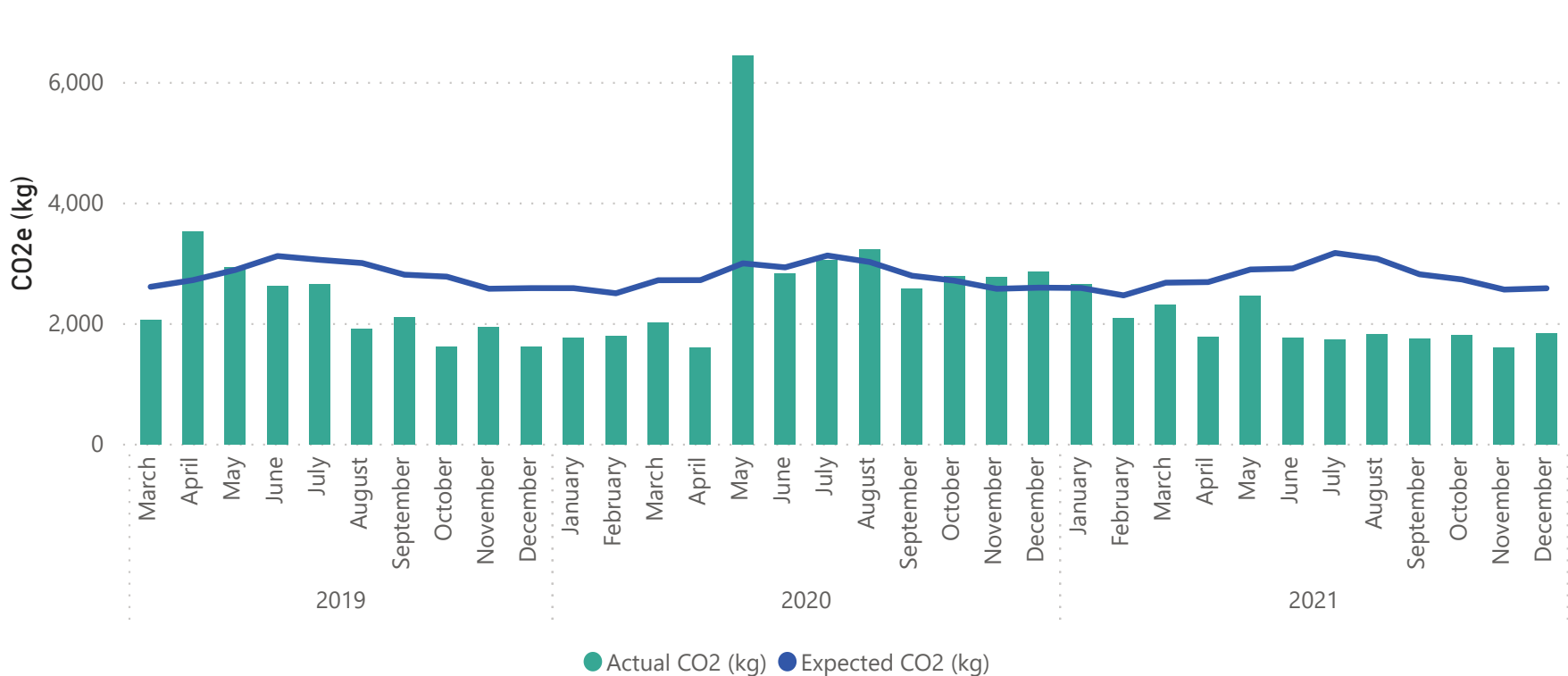
Whakatane District Council

Museum and Research Centre

Museum Research Centre Natural Gas Compared to Baseline (kWh)



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

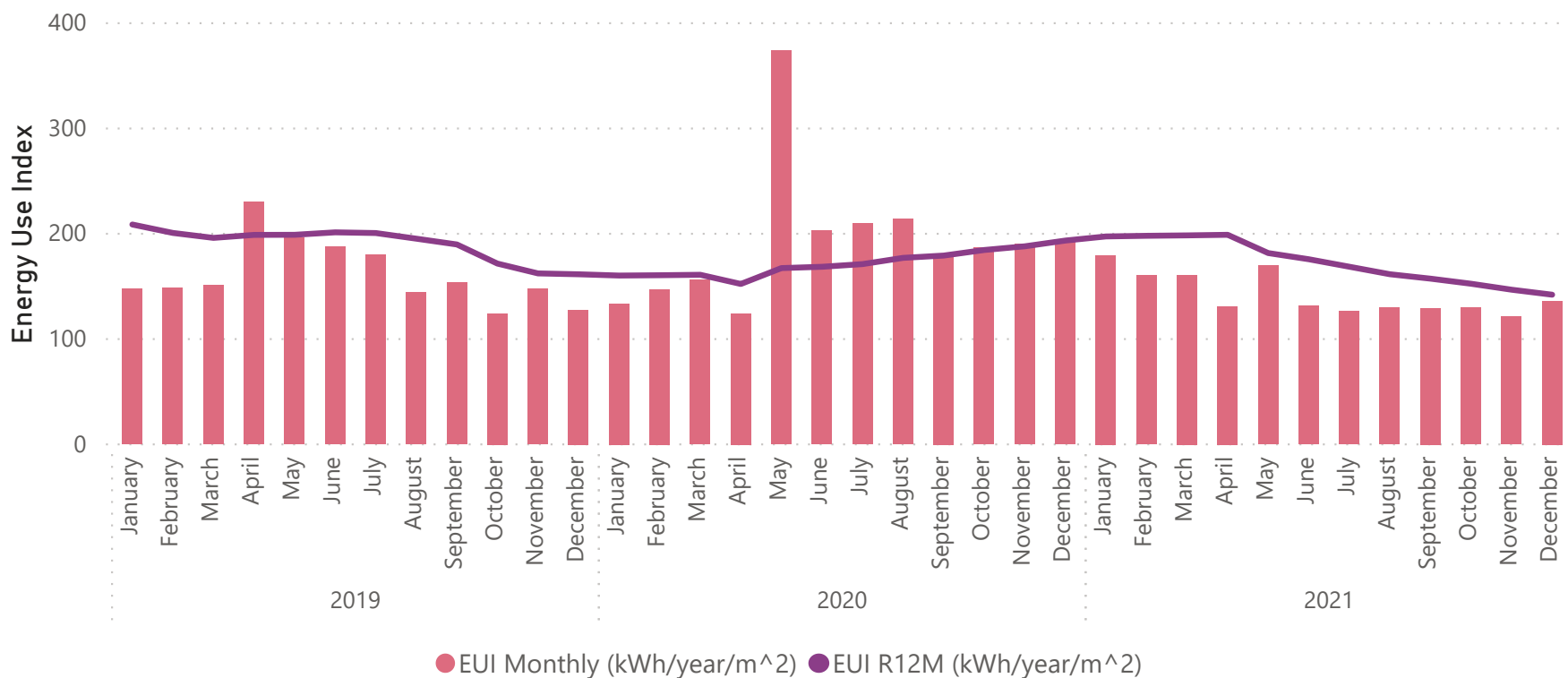


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

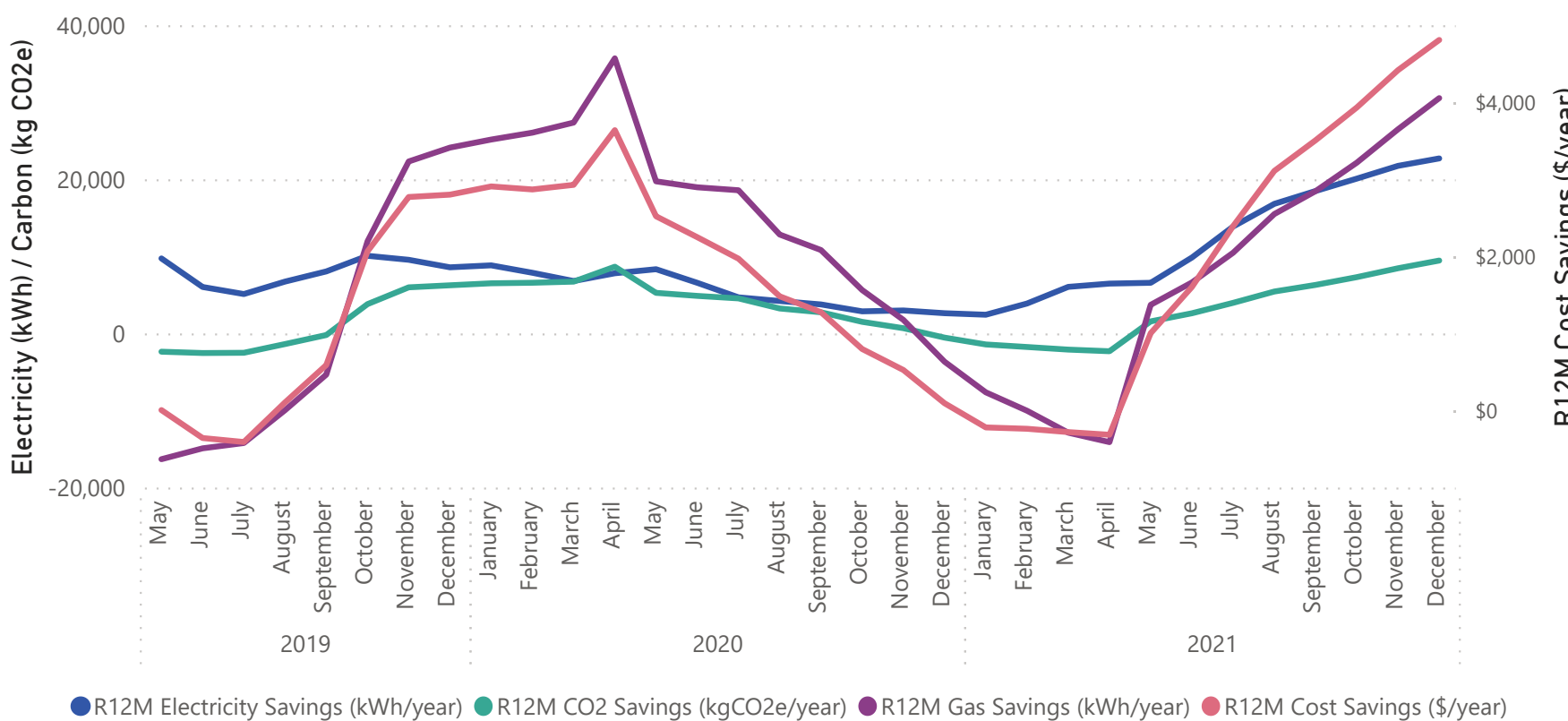
Whakatane District Council

Museum and Research Centre

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



Museum Research Centre 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

Whakatane District Council

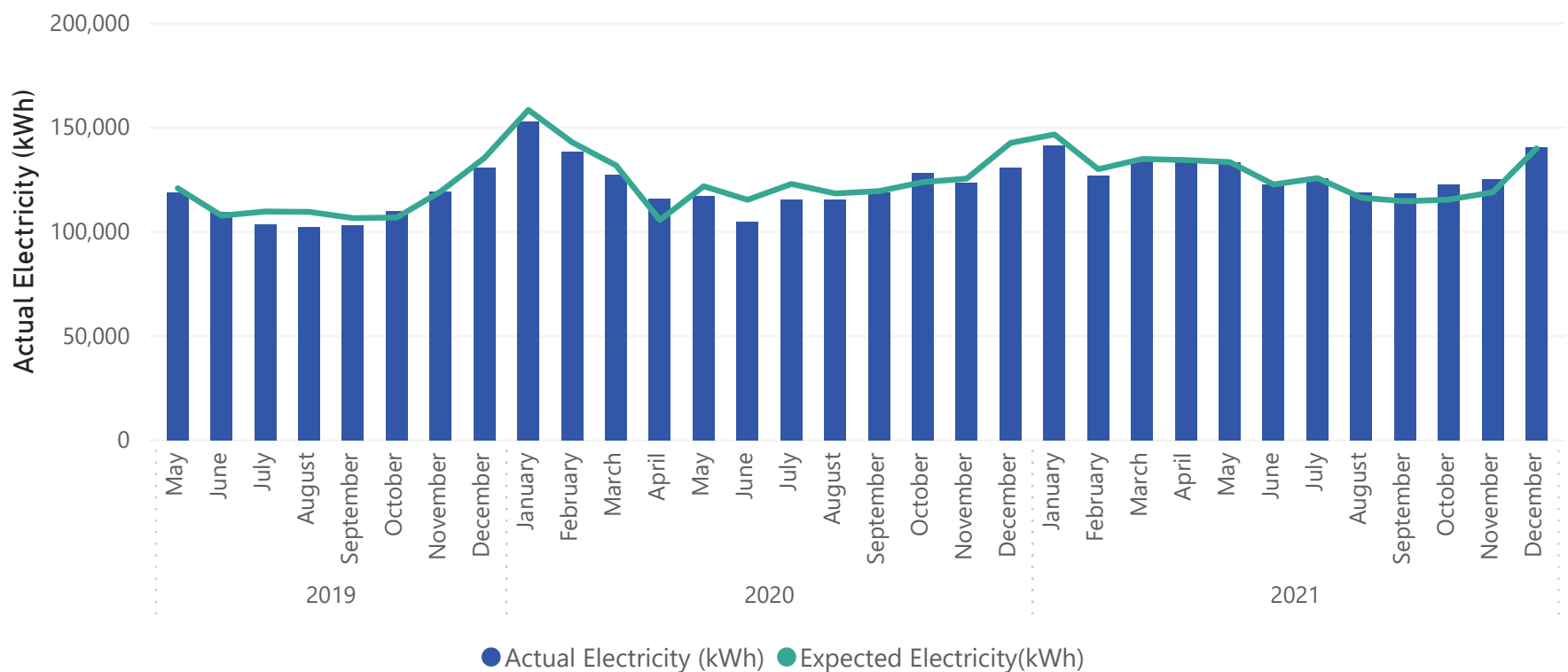
Water Treatment Plant

<p>-\$59</p> <p>Monthly Energy Cost Savings</p>	<p>-615</p> <p>Elec. Savings (kWh/mo)</p>	<p>-0%</p> <p>Elec. Savings (%)</p>	<p>-10,065</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>-79</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$958</p> <p>R12M Energy Cost Savings</p>				<p>-1,295</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

December 2021 is the fifth month in a row that electricity use has been greater than baseline, however the water treatment plant has only used 600 kWh extra in December 2021. The monthly EUI has returned to what it was in July 2021, when electricity use started to increase above the baseline. The monthly EUI in December 2021 is lower than average over the past 12 months.

Water Treatment Plant Electricity Use Compared to Baseline (kWh)

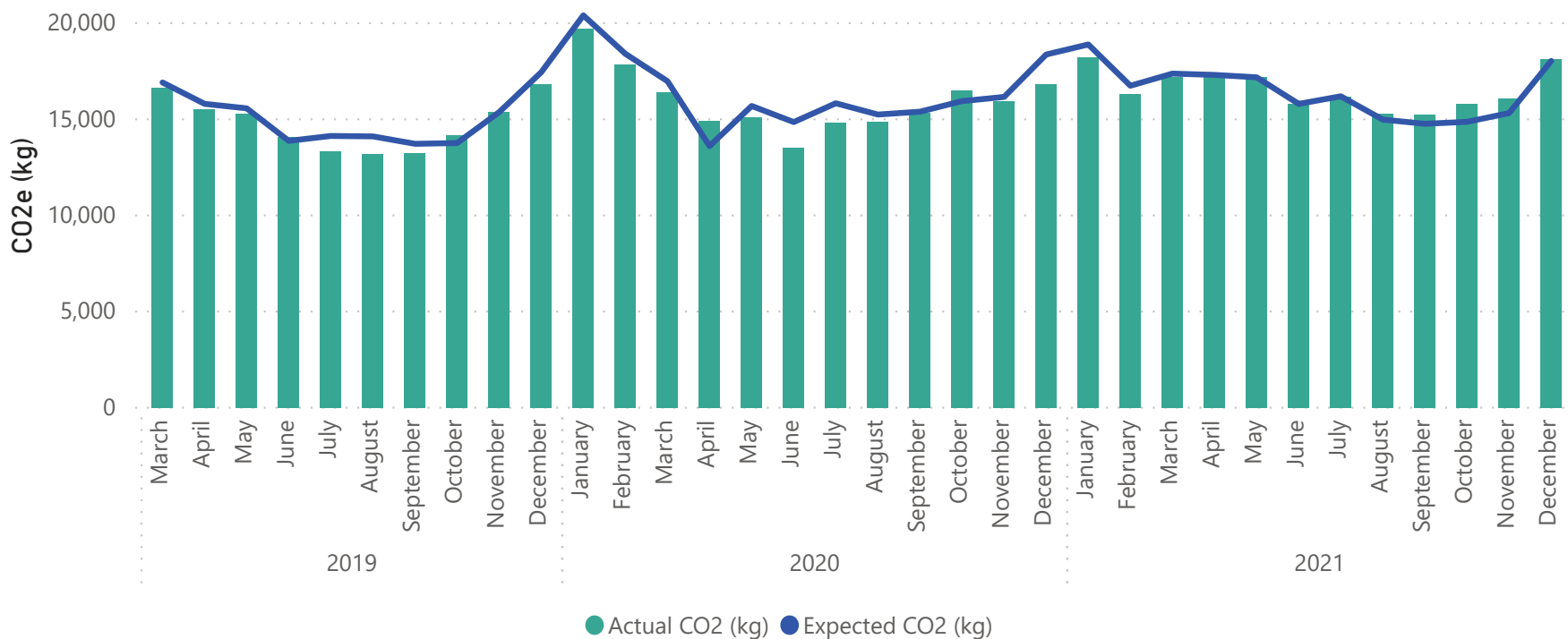


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

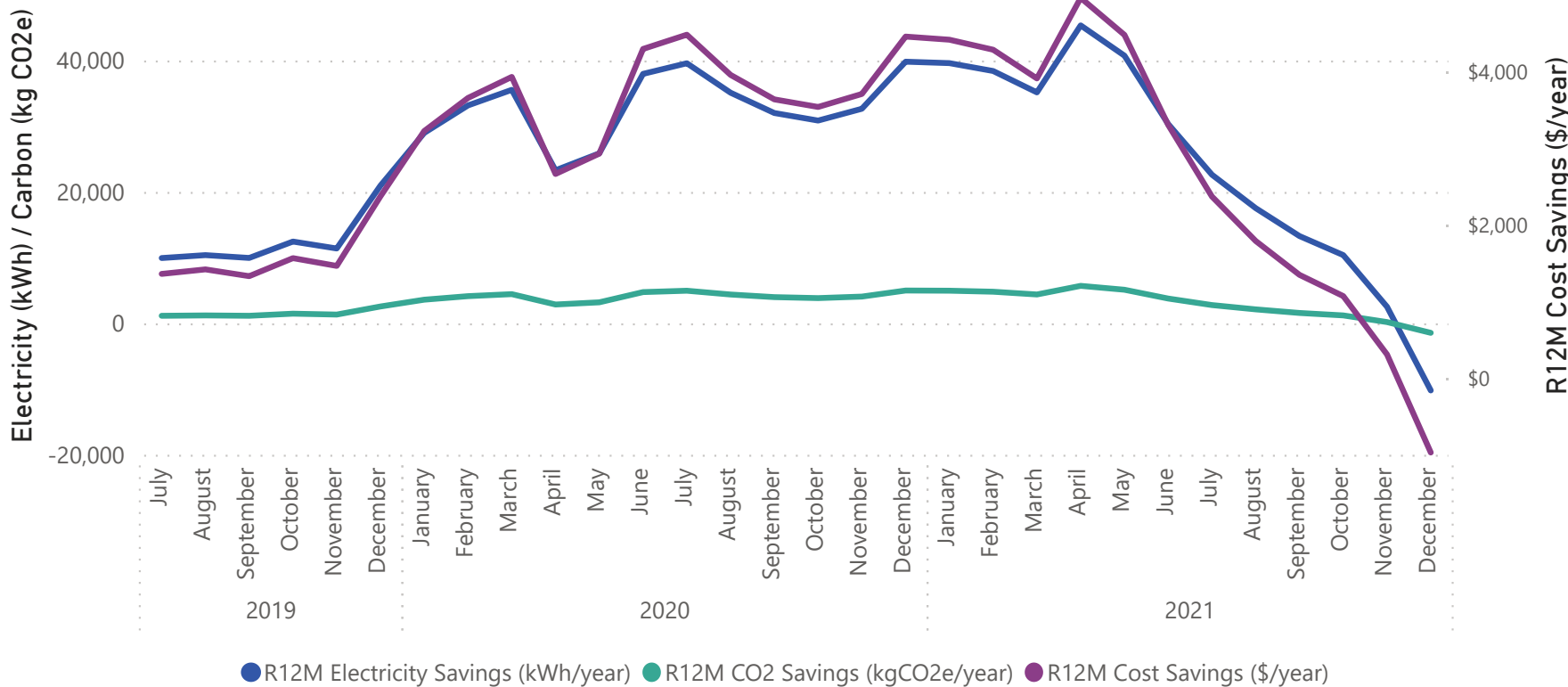
Whakatane District Council

Water Treatment Plant

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



Water Treatment Plant Cumulative Rolling 12 Month Savings

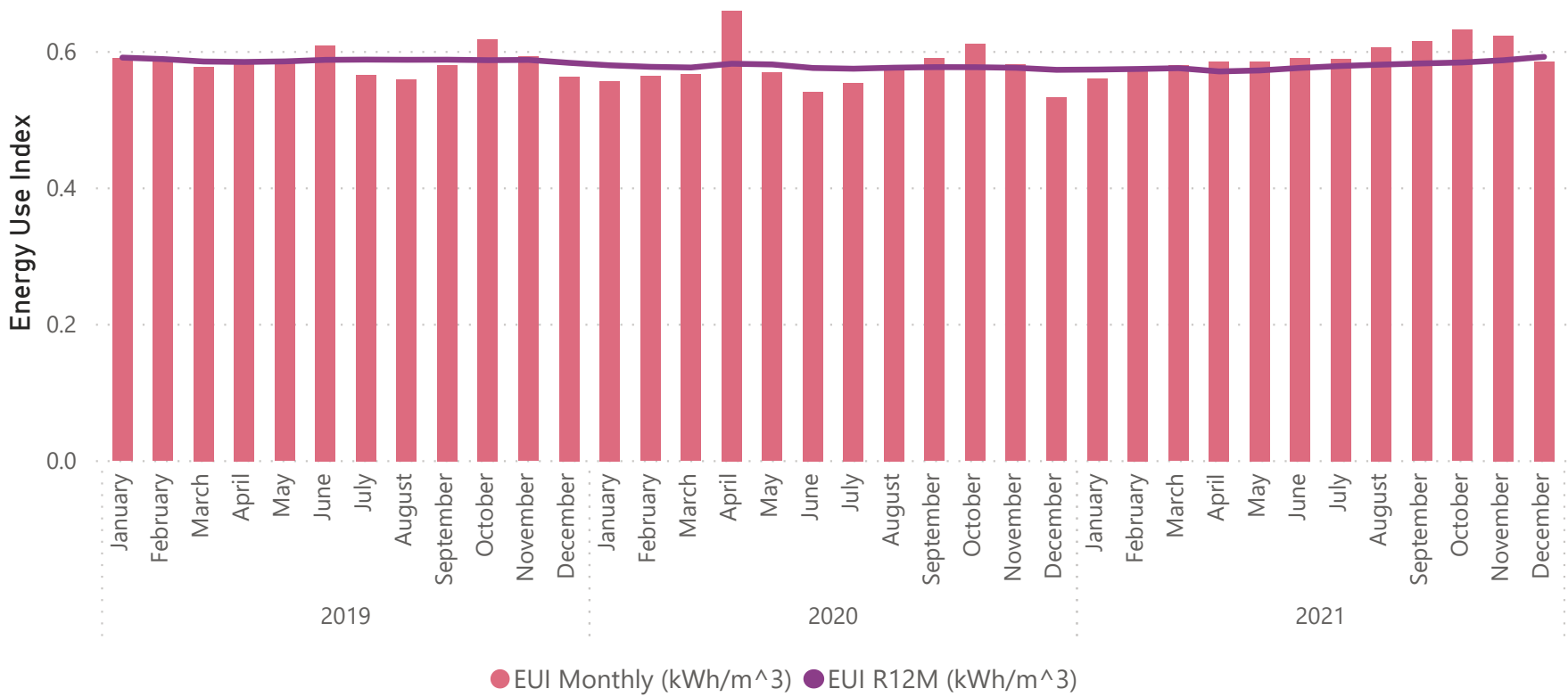


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

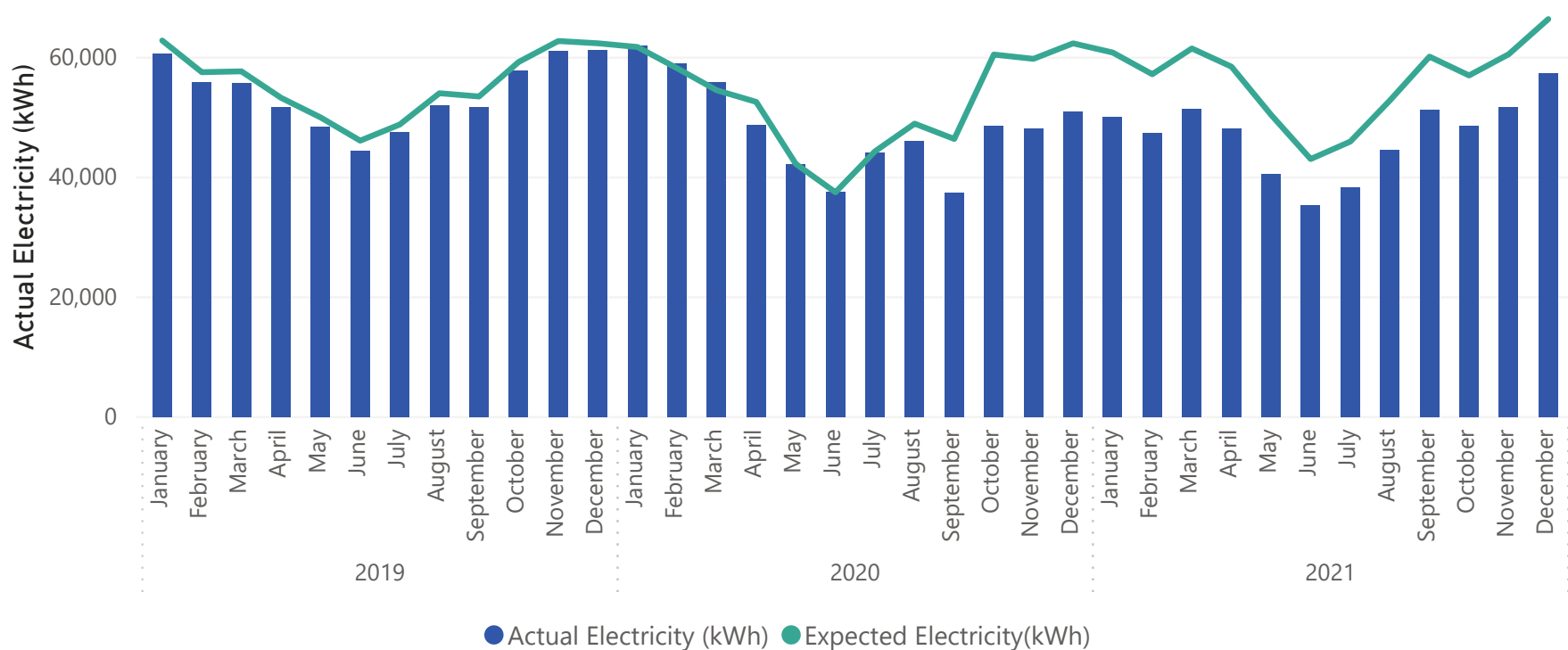
Braemar Road Pump Station

\$892 Monthly Energy Cost Savings	9,043 Elec. Savings (kWh/mo)	14% Elec. Savings (%)	110,035 R12M Electricity Savings (kWh/yr)	1,143 CO2e Savings (kg/mo)
\$11,978 R12M Energy Cost Savings				14,684 R12M CO2e Savings (kg/yr)

Comments:

Continued savings from high efficiency pumps and motors, installed September 2020. Rolling 12 month savings are approximately \$12,000 per year and 110,000 kWh per year. December 2021's EUI has increased by approximately 6% since November 2020, when the pumps were operating most efficiently.

Braemar Rd Pumps Electricity Use Compared to Baseline (kWh)

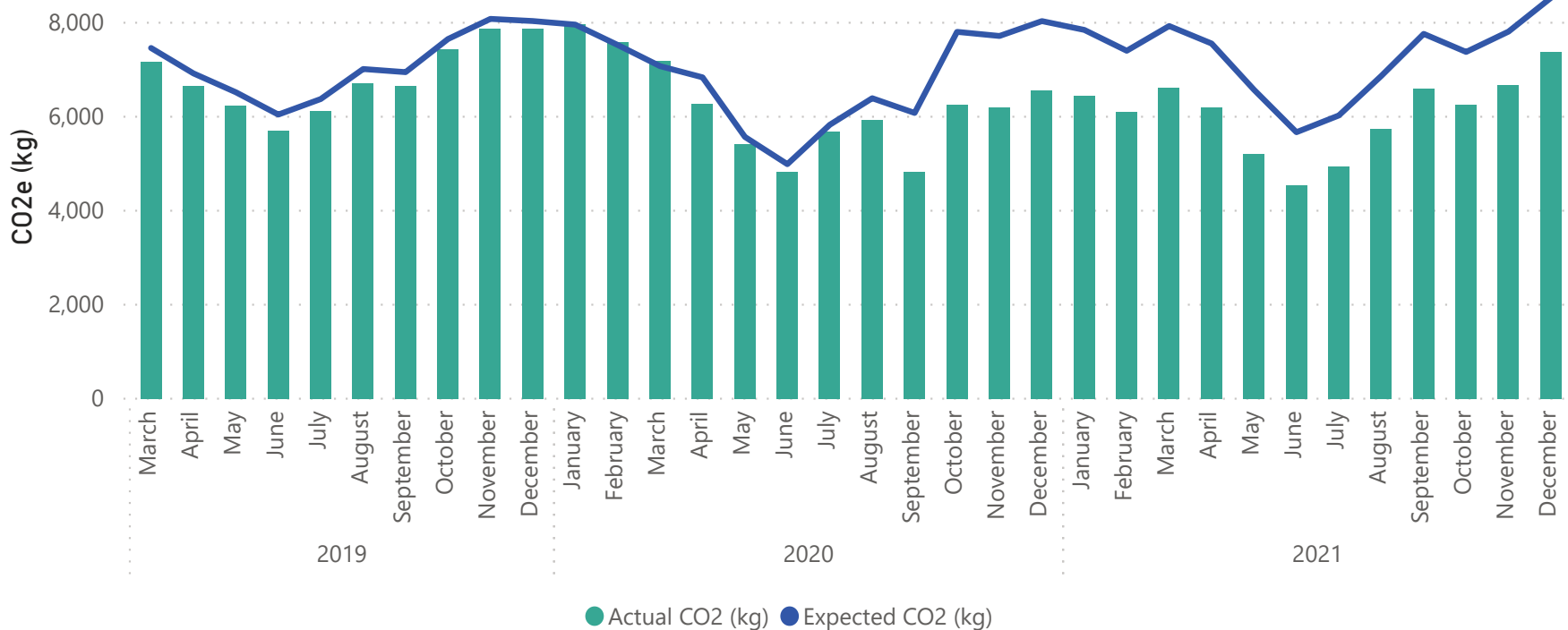


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

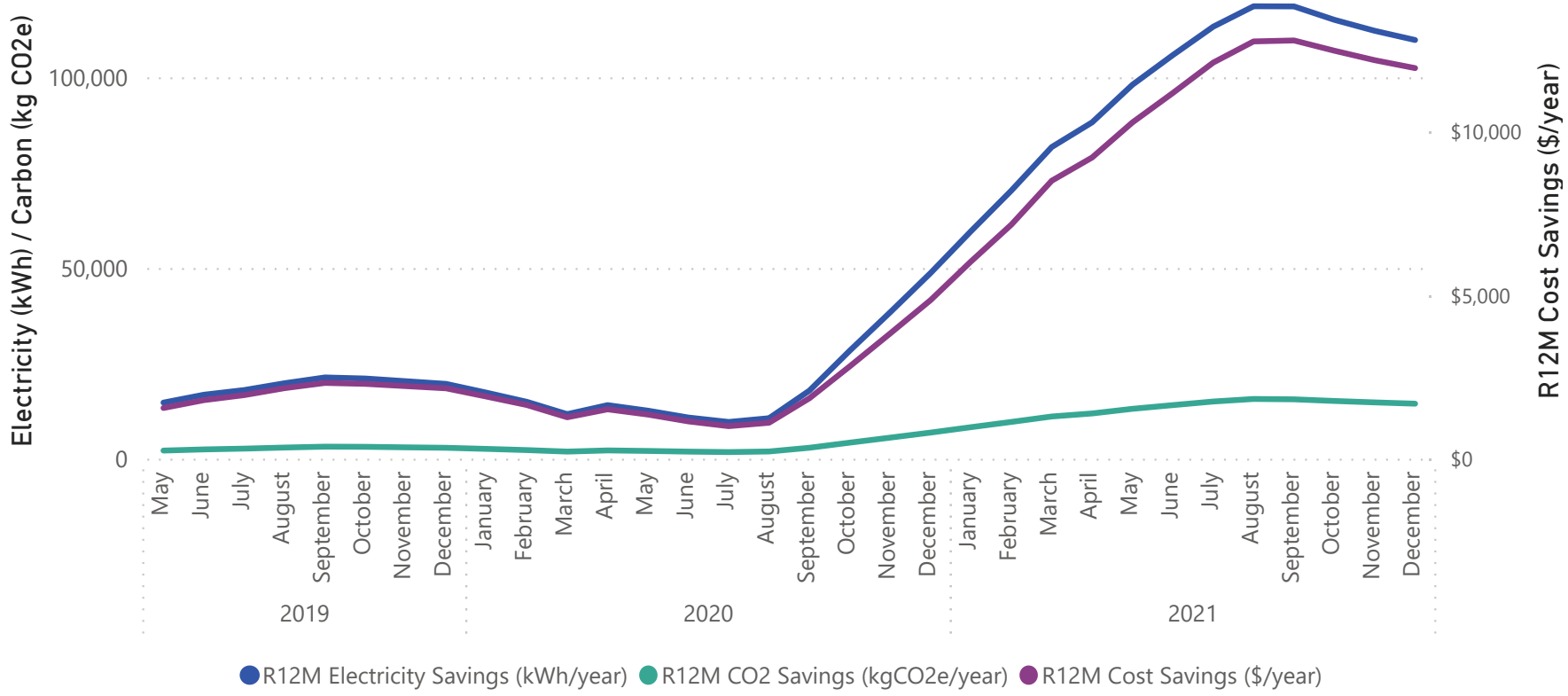
Whakatane District Council

Braemar Road Pump Station

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



Braemar Rd Pumps Cumulative Rolling 12 Month Savings

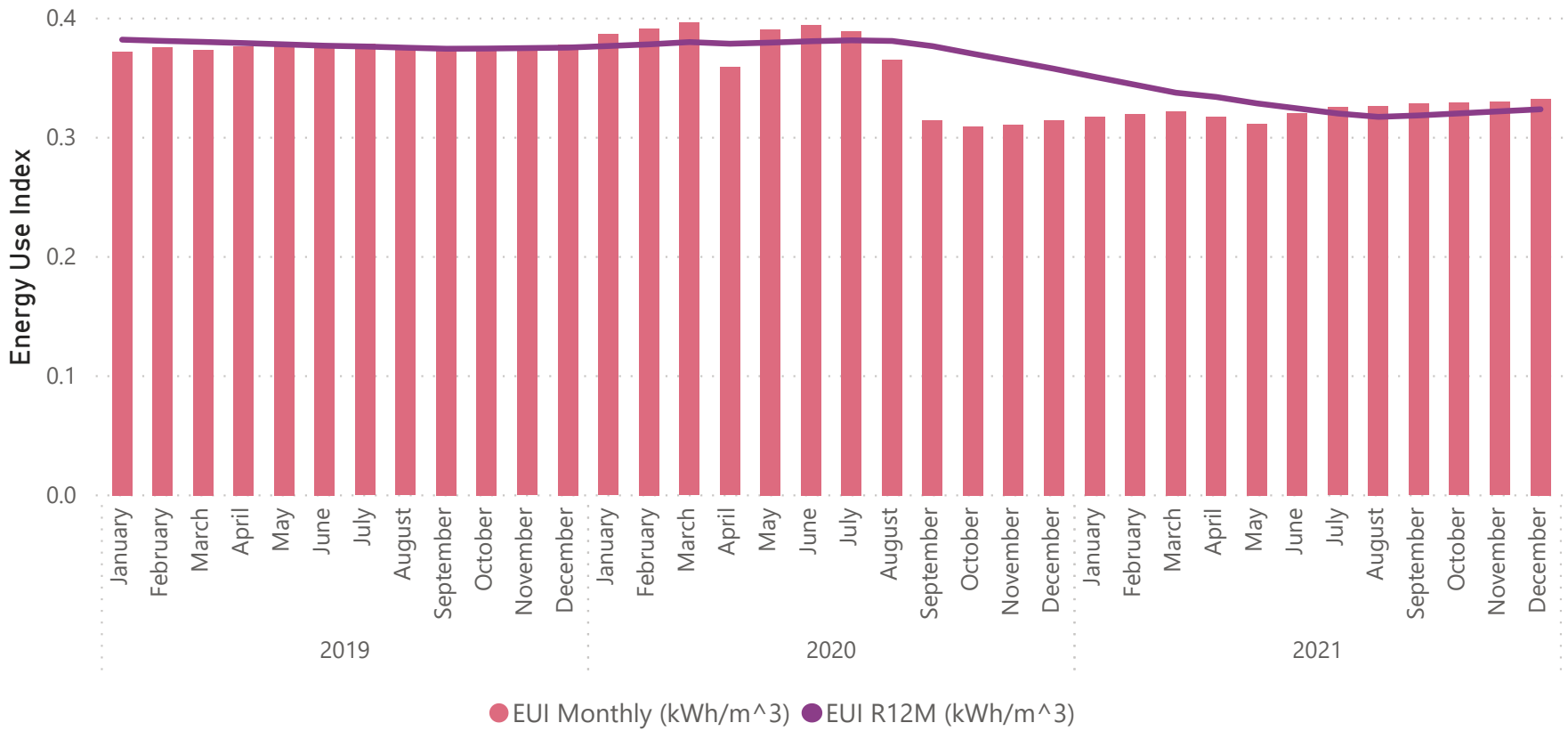


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

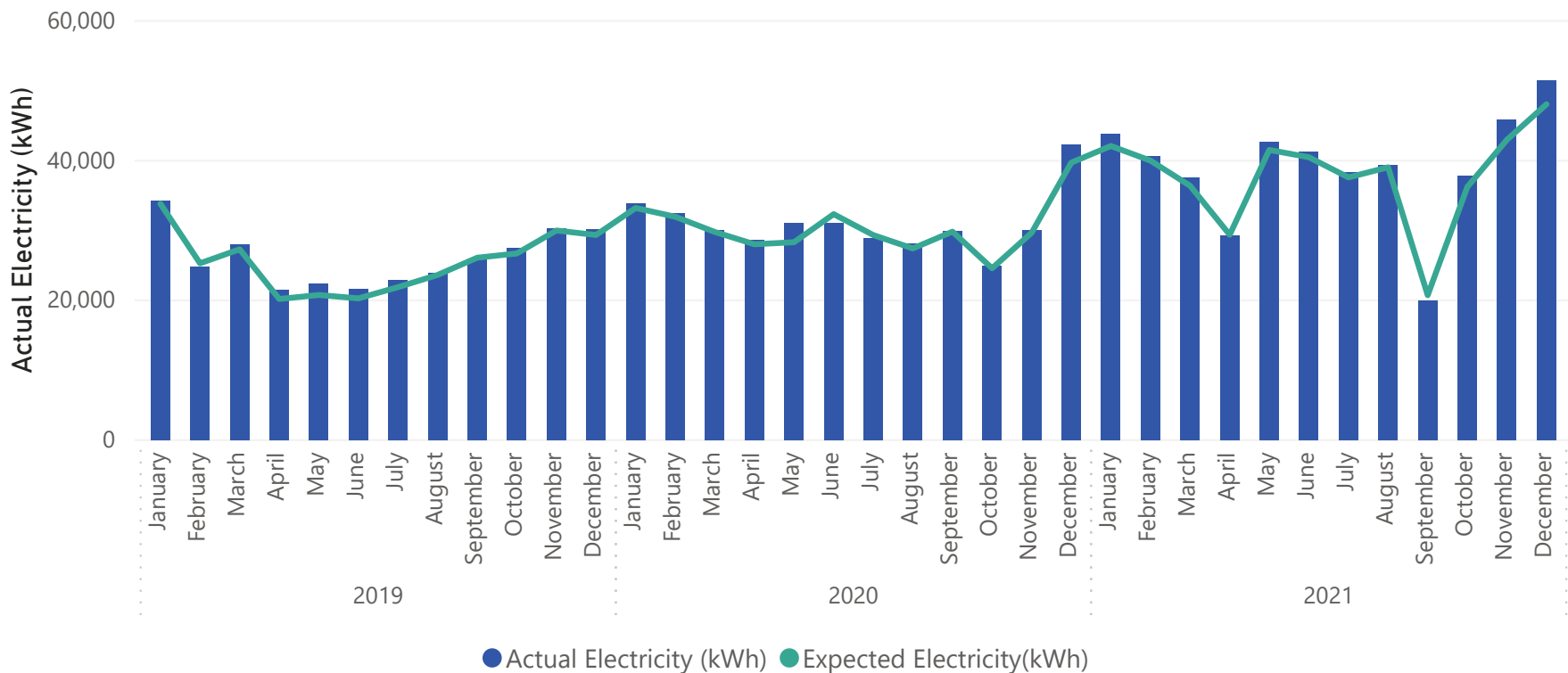
Paul Road Pump Station

<p>-\$339 Monthly Energy Cost Savings</p>	<p>-3,443 Elec. Savings (kWh/mo)</p>	<p>-7% Elec. Savings (%)</p>	<p>-13,602 R12M Electricity Savings (kWh/yr)</p>	<p>-442 CO2e Savings (kg/mo)</p>
<p>-\$1,419 R12M Energy Cost Savings</p>				<p>-1,740 R12M CO2e Savings (kg/yr)</p>

Comments:

Demand has increased for the fourth month in a row. High demand in December and electricity use that is more than expected may indicate that the pump is operating outside its optimum efficiency range.

Paul Rd Pumps Electricity Use Compared to Baseline (kWh)

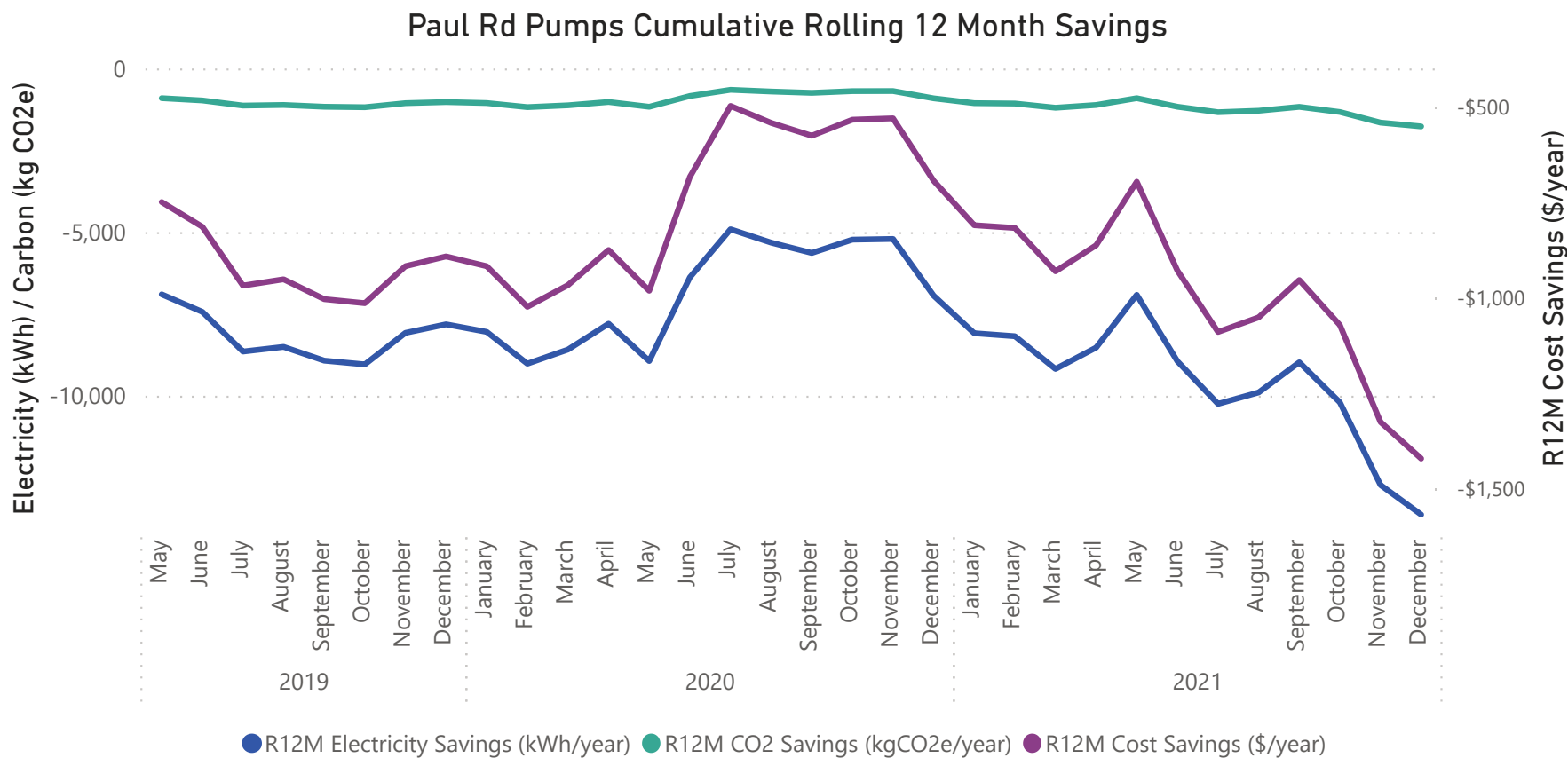
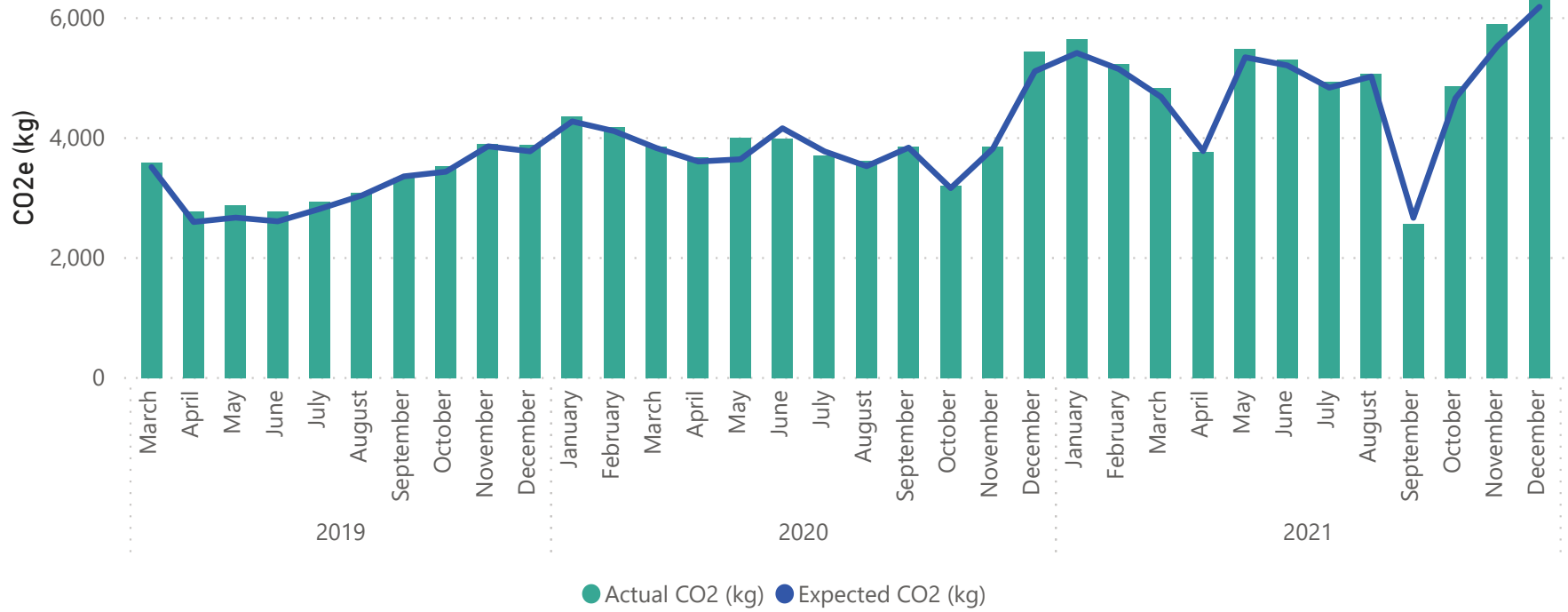


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

Whakatane District Council

Paul Road Pump Station

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

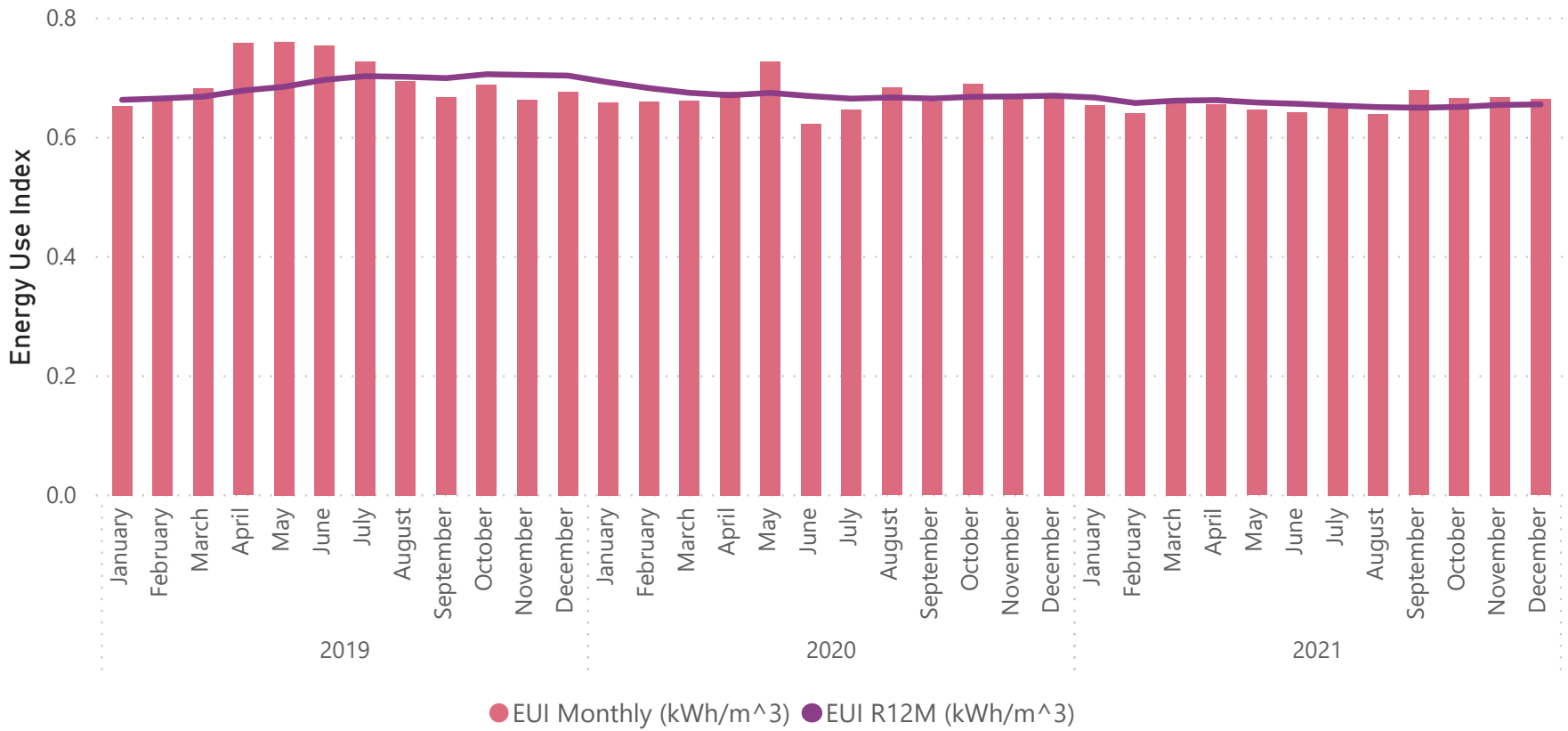


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

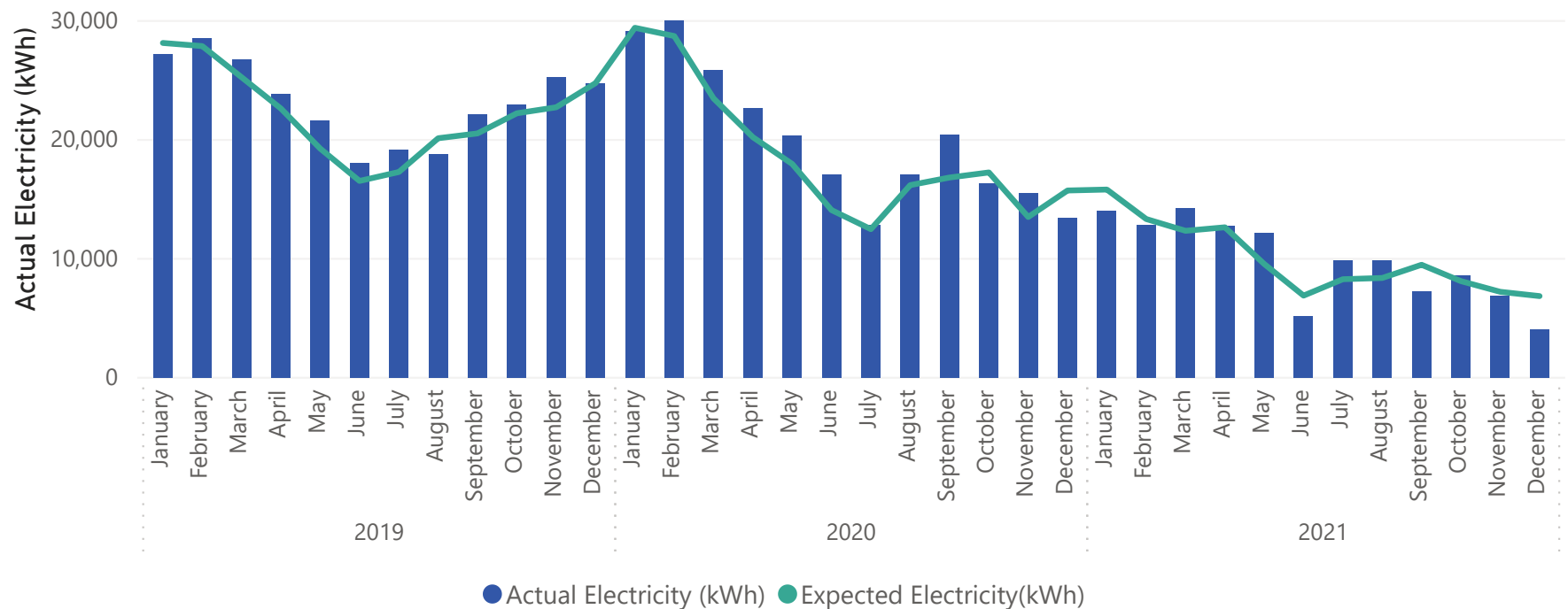
Johnson Road Pump Station

\$621 Monthly Energy Cost Savings	2,815 Elec. Savings (kWh/mo)	41% Elec. Savings (%)	1,241 R12M Electricity Savings (kWh/yr)	362 CO2e Savings (kg/mo)
\$273 R12M Energy Cost Savings				164 R12M CO2e Savings (kg/yr)

Comments:

The rolling 12-month EUI for Johnson Road Pump Station has increased over the past year as demand decreases. This is expected as the pump station has a non-zero baseload.

Johnson Rd Pumps Electricity Use Compared to Baseline (kWh)

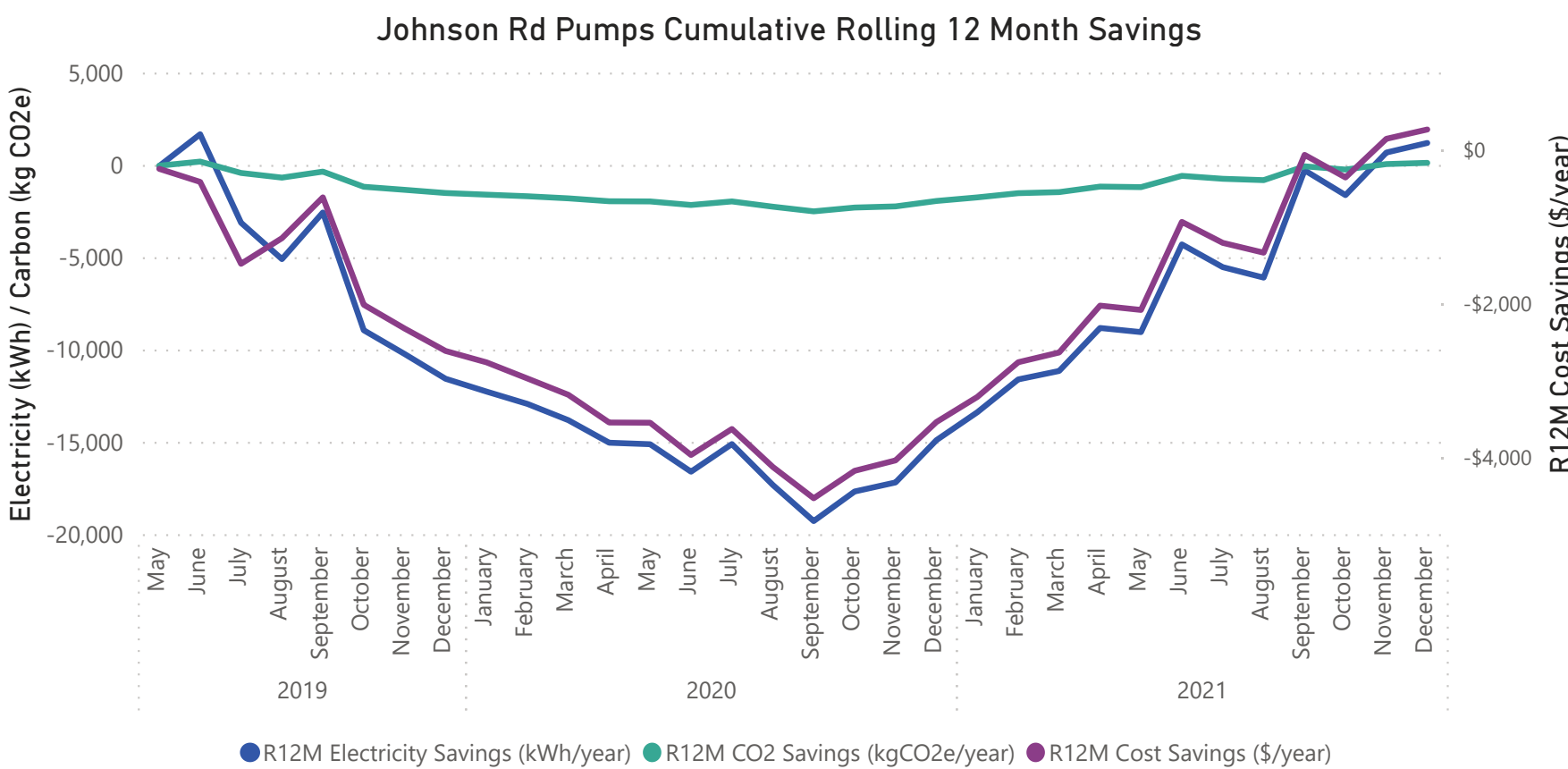
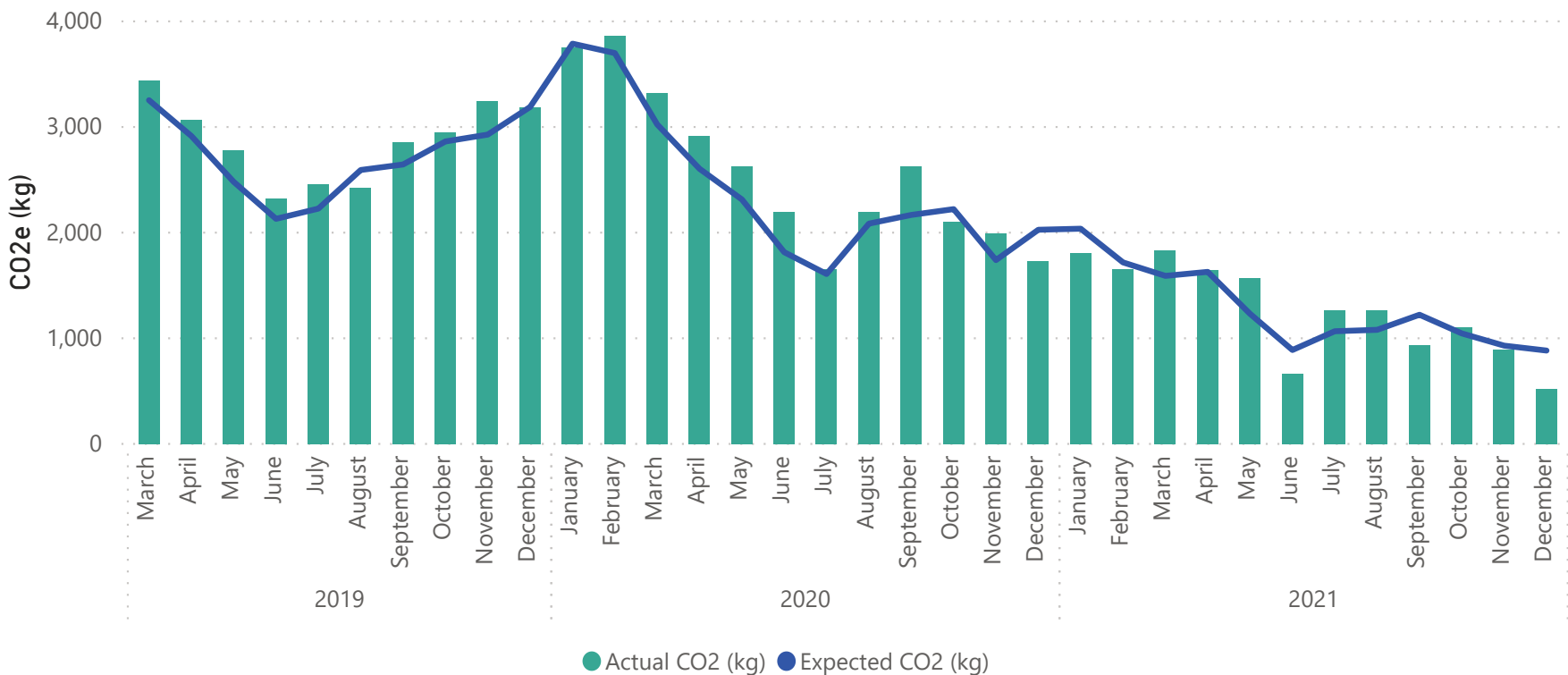


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

Whakatane District Council

Johnson Road Pump Station

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

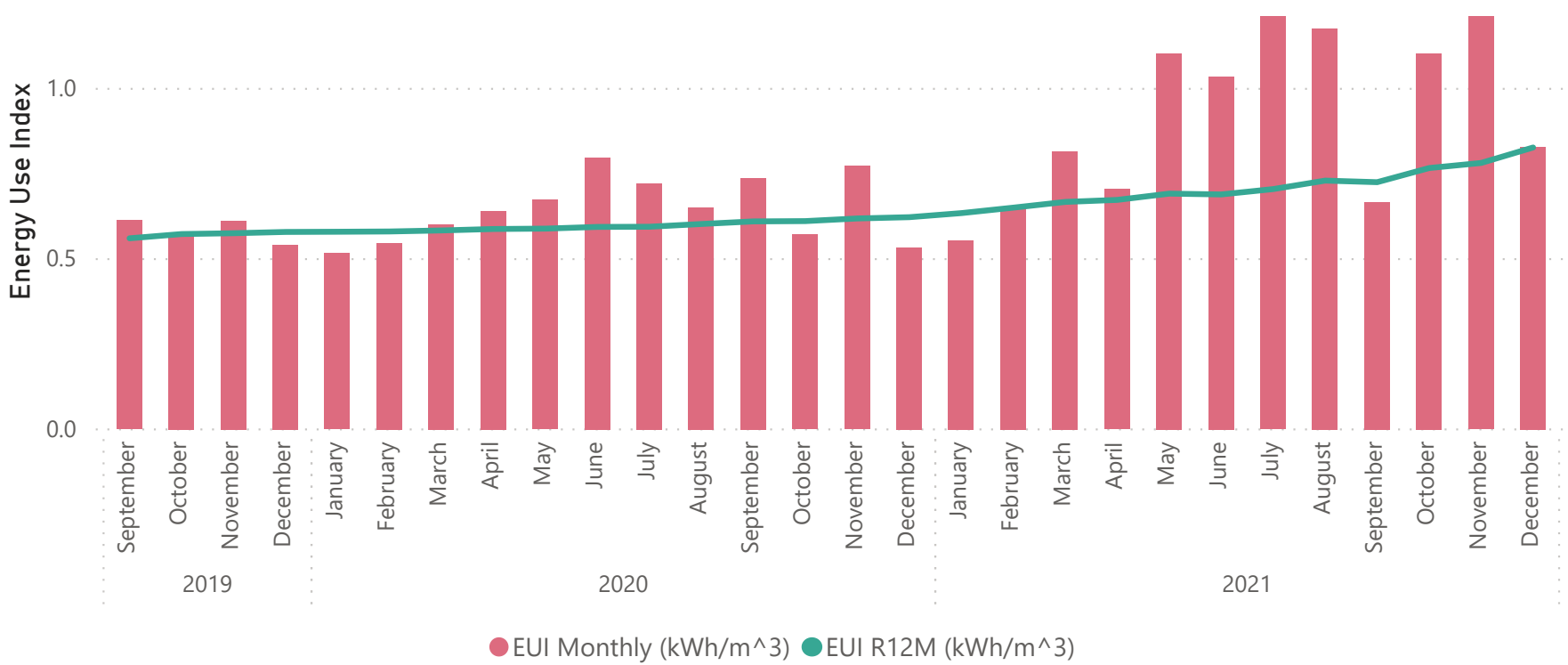


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

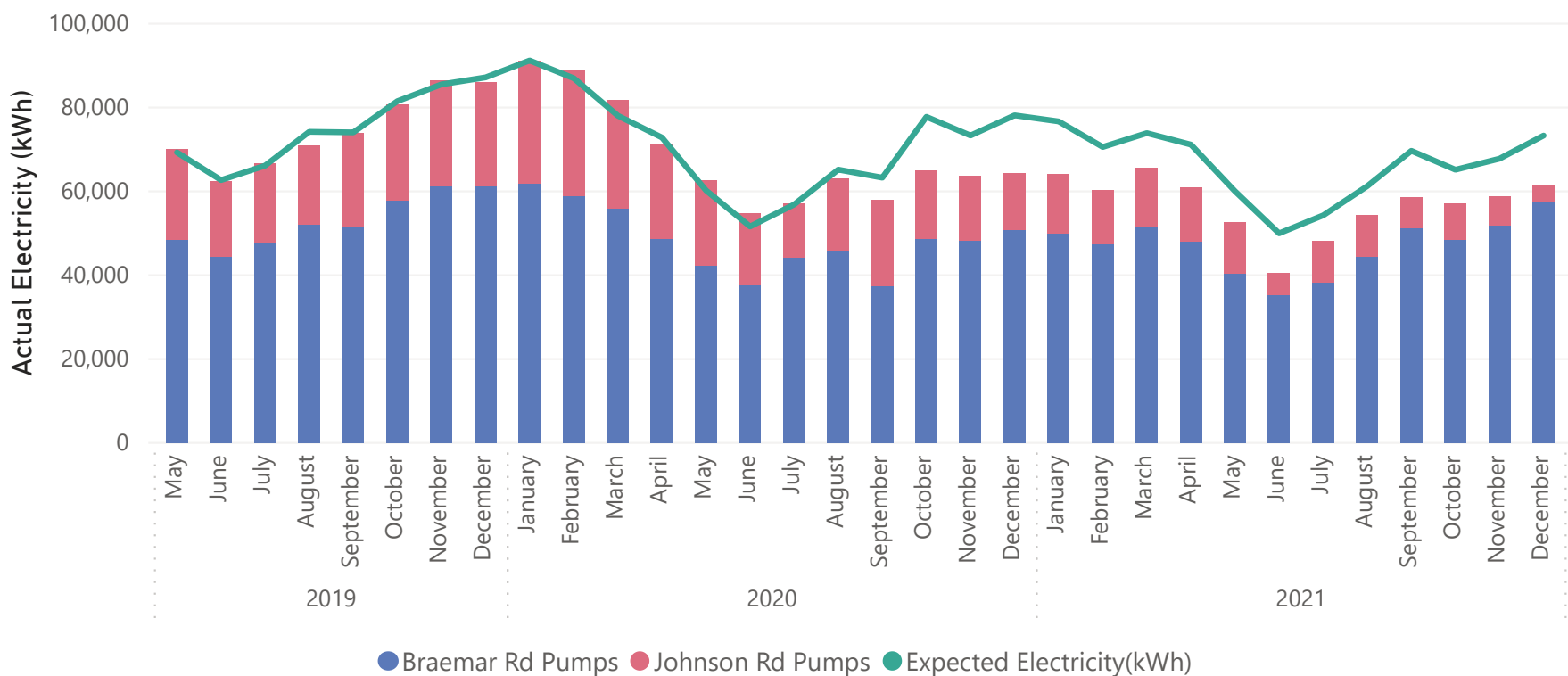
Johnson and Braemar Rd Pump Stations

<p>\$1,513</p> <p>Monthly Energy Cost Savings</p>	<p>11,858</p> <p>Elec. Savings (kWh/mo)</p>	<p>16%</p> <p>Elec. Savings (%)</p>	<p>111,276</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>1,506</p> <p>CO2e Savings (kg/mo)</p>
<p>\$12,251</p> <p>R12M Energy Cost Savings</p>				<p>14,848</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

It is clear from the combined monitoring how the new, more efficient pumps (installed September 2020) at Braemar Road greatly contribute to the collective savings. On an EUI basis, even before the more efficient pumps were installed, Braemar Road was pumping water more efficiently than Johnson Rd.

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

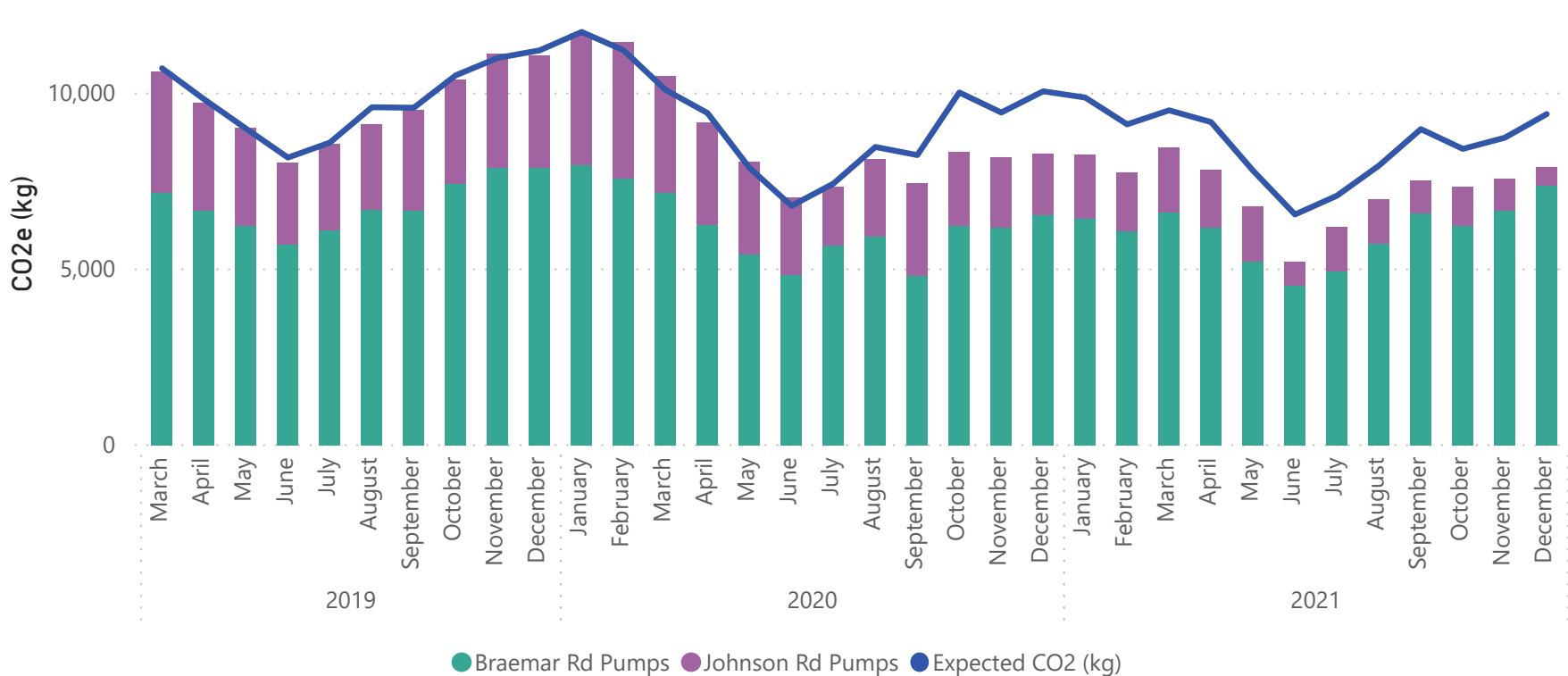


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

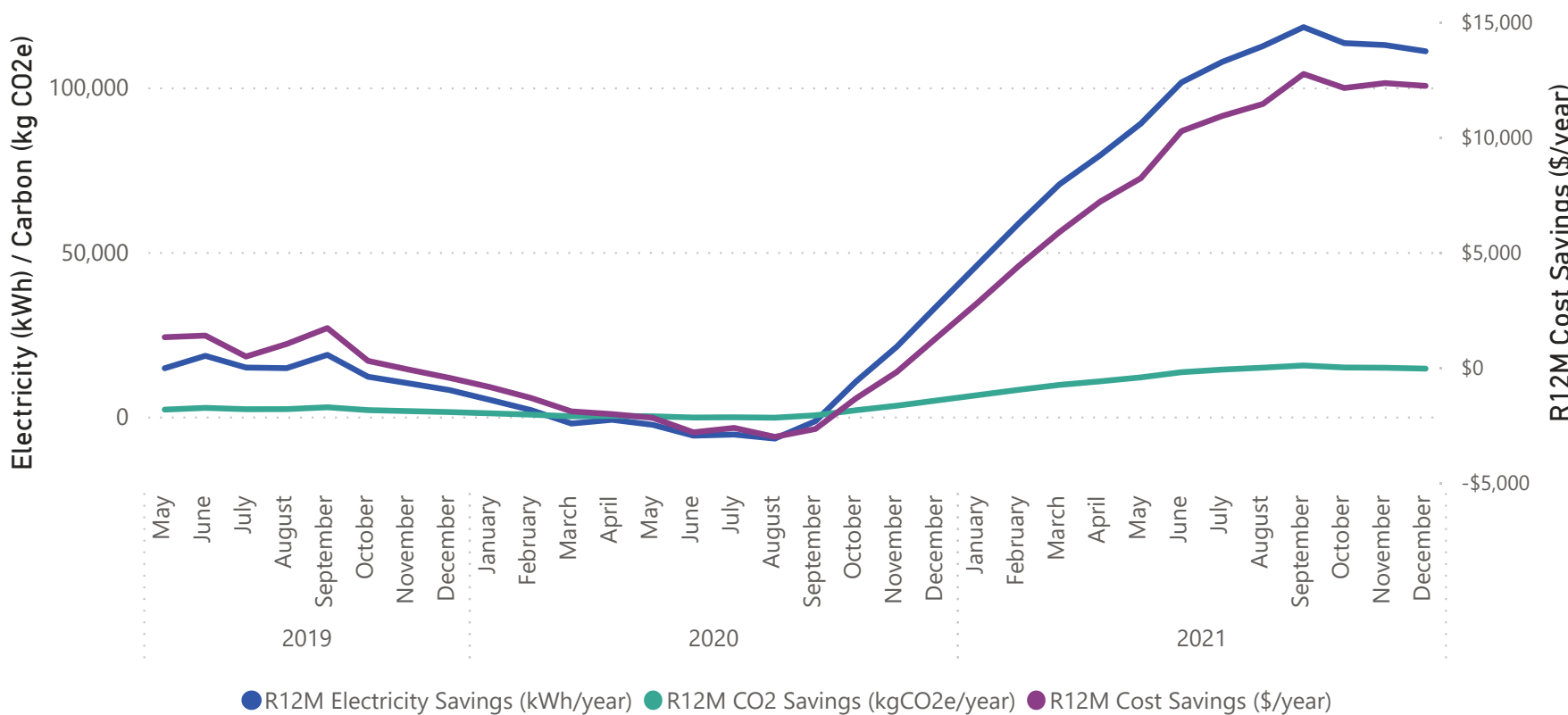
Whakatane District Council

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

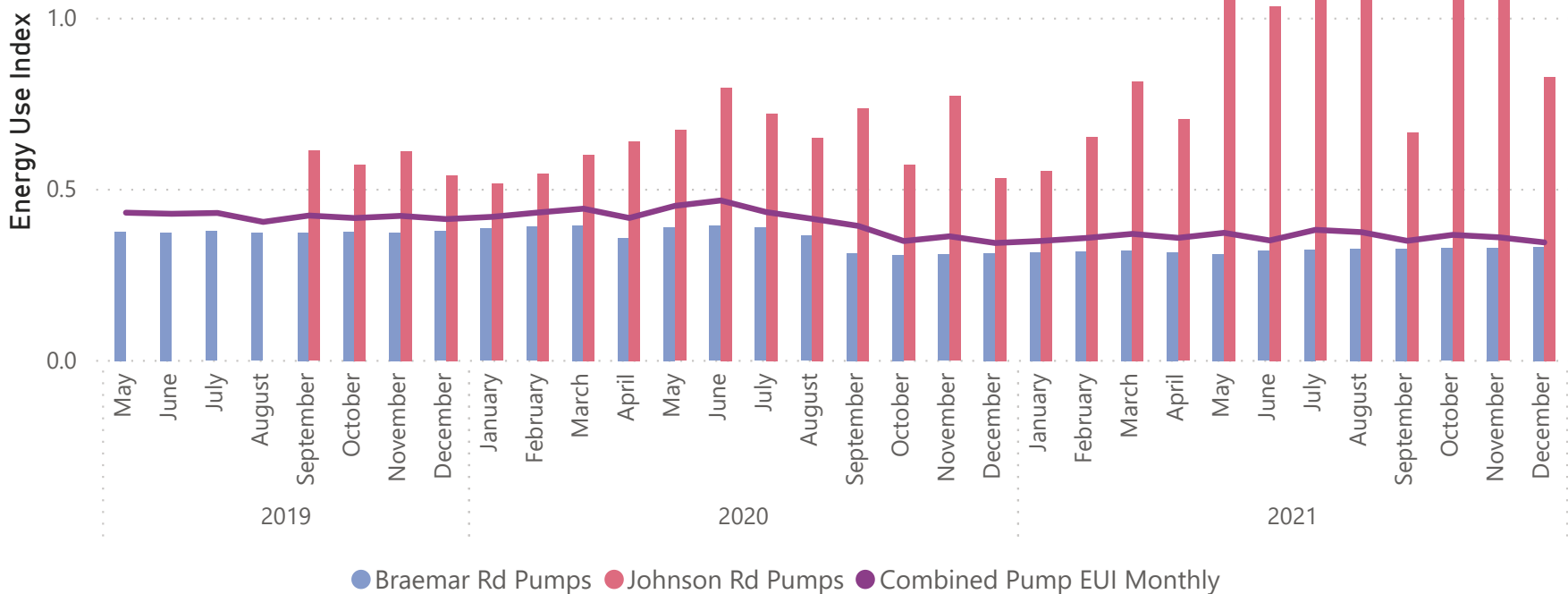


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

Bridger Glade Pump Station

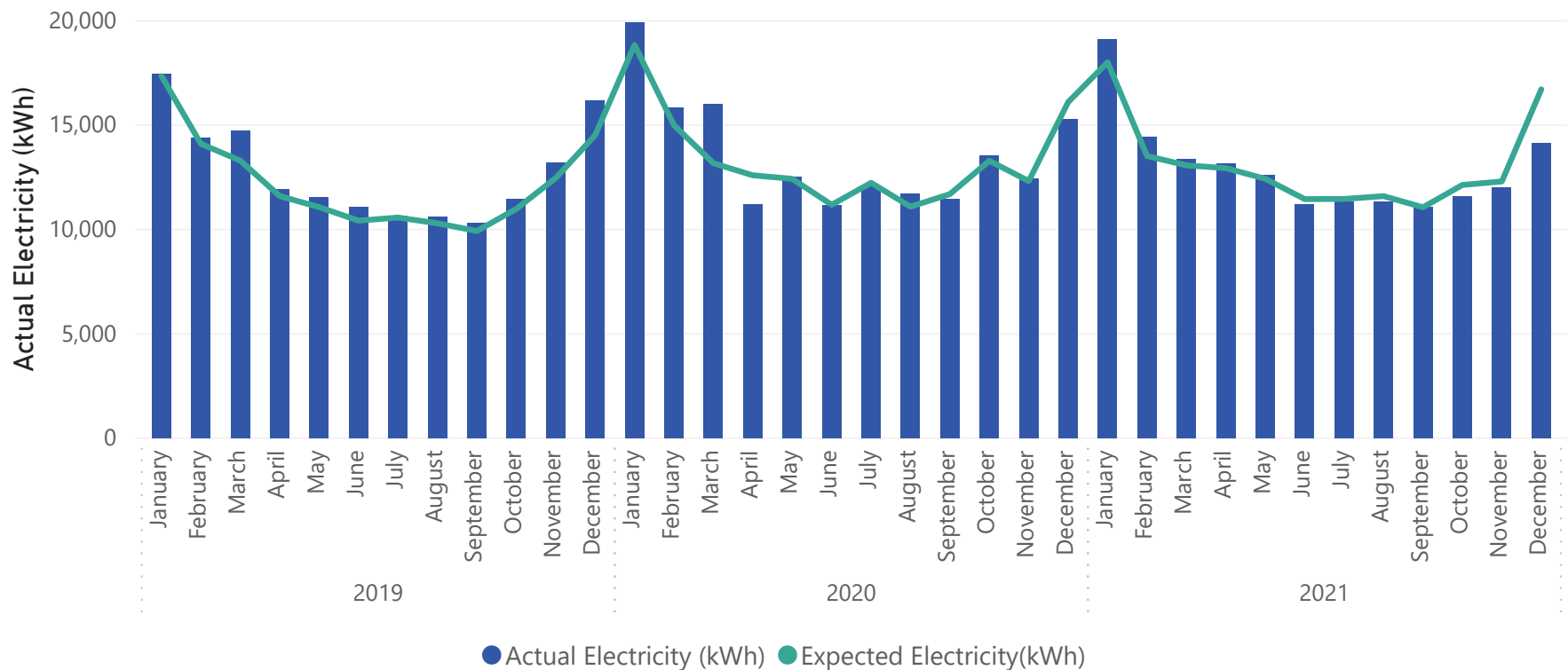
\$473 Monthly Energy Cost Savings	2,574 Elec. Savings (kWh/mo)	15% Elec. Savings (%)	1,349 R12M Electricity Savings (kWh/yr)	331 CO2e Savings (kg/mo)
\$258 R12M Energy Cost Savings				174 R12M CO2e Savings (kg/yr)

Comments:

Electricity use has generally been as expected, or less than baseline, since June 2021 at Bridger Glade pump station.

In December 2021 electricity savings have increased to 15% less than baseline.

Bridger Glade Pumps Electricity Use Compared to Baseline (kWh)

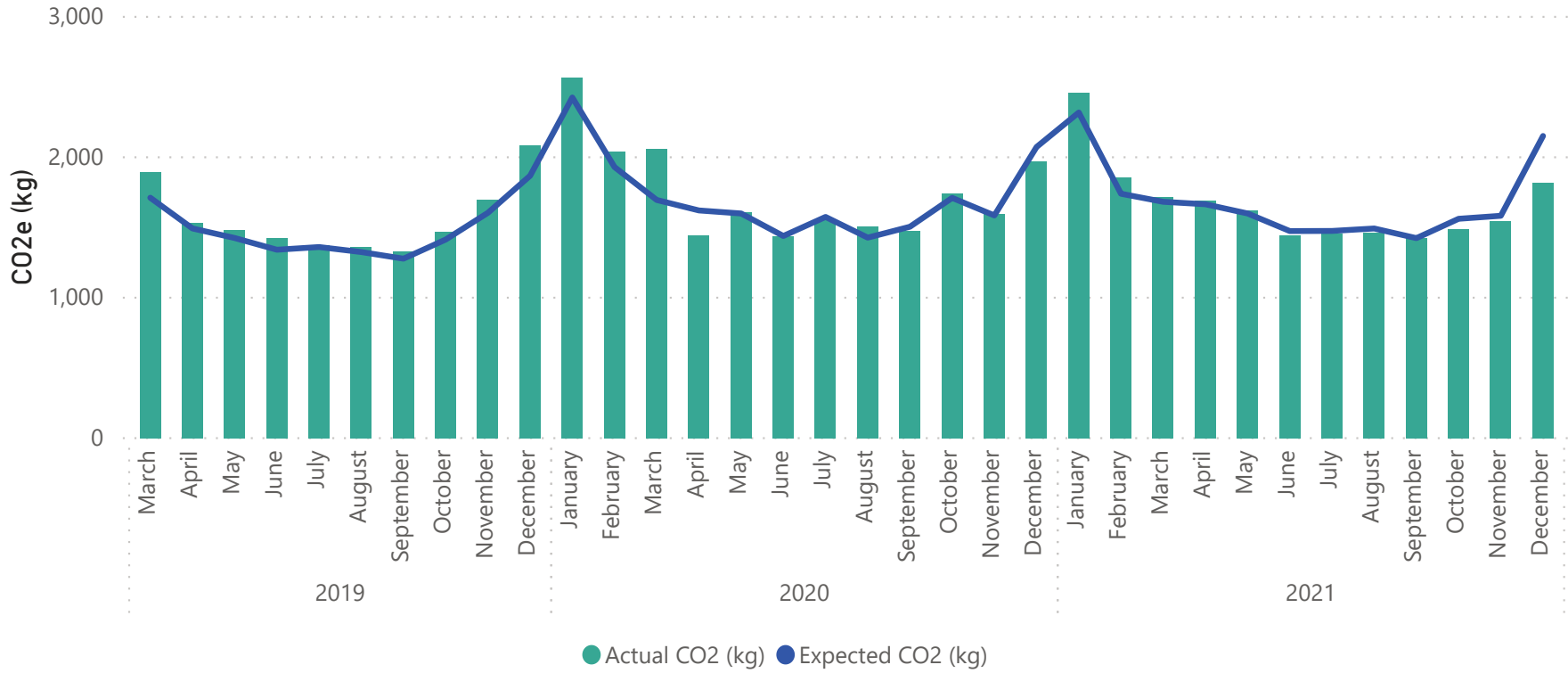


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

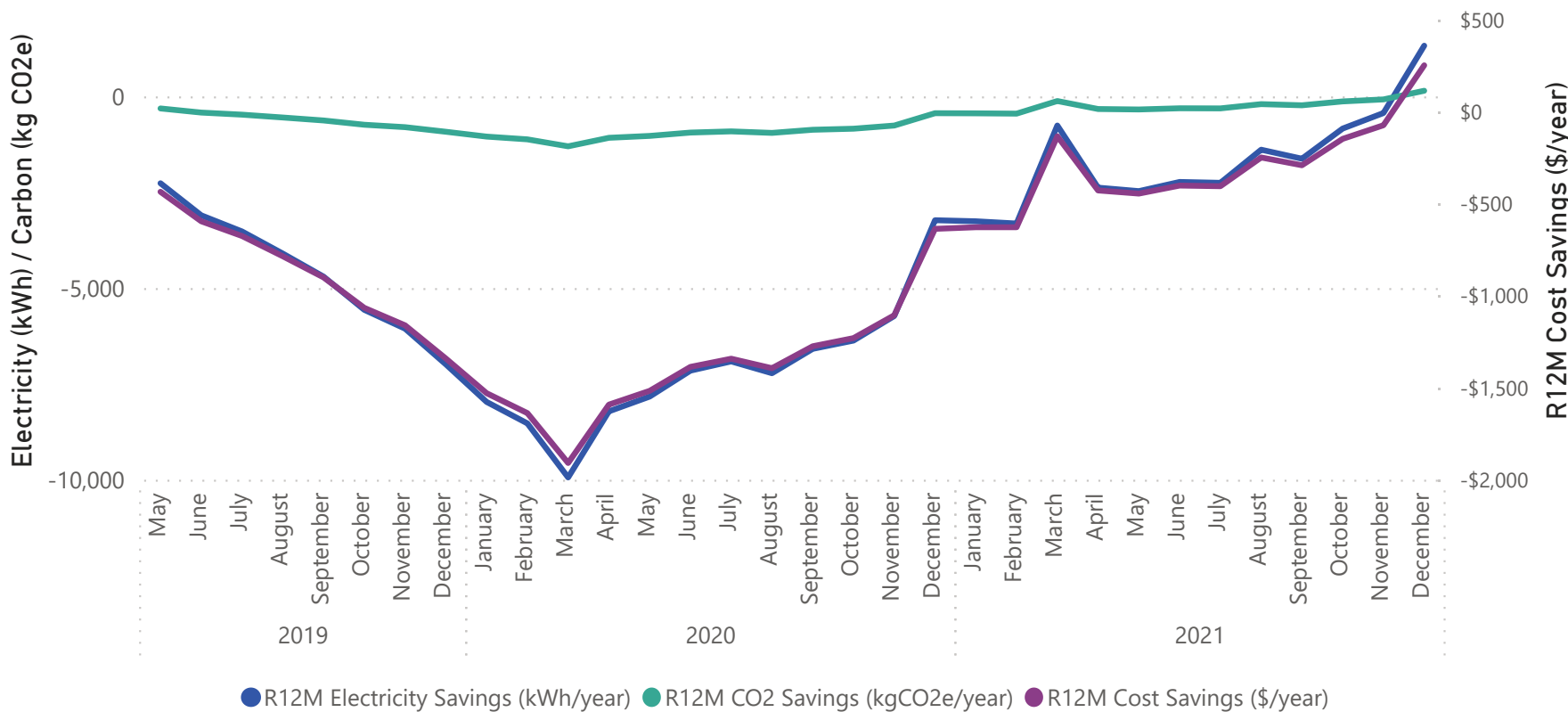
Whakatane District Council

Bridger Glade Pump Station

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



Bridger Glade Pumps Cumulative Rolling 12 Month Savings

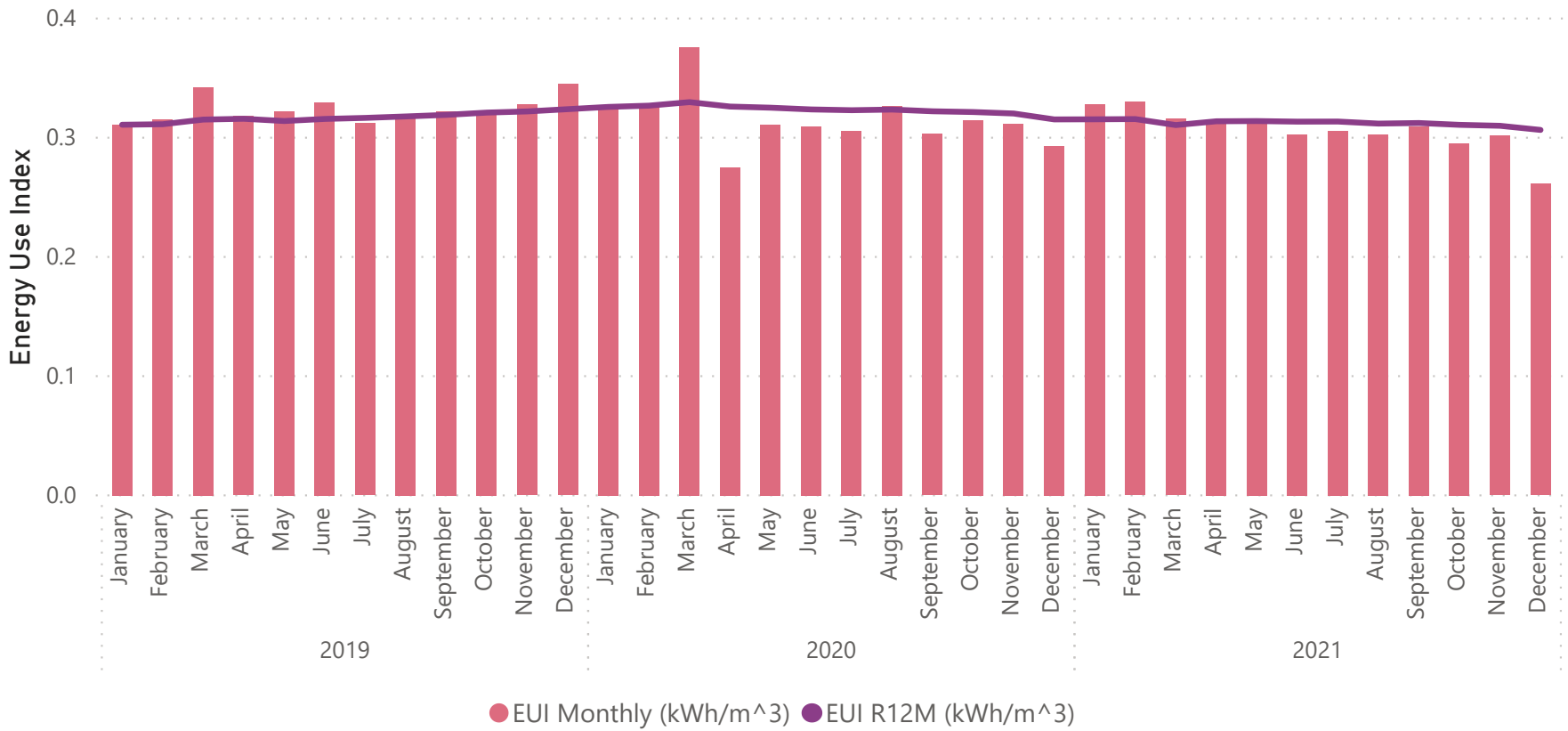


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

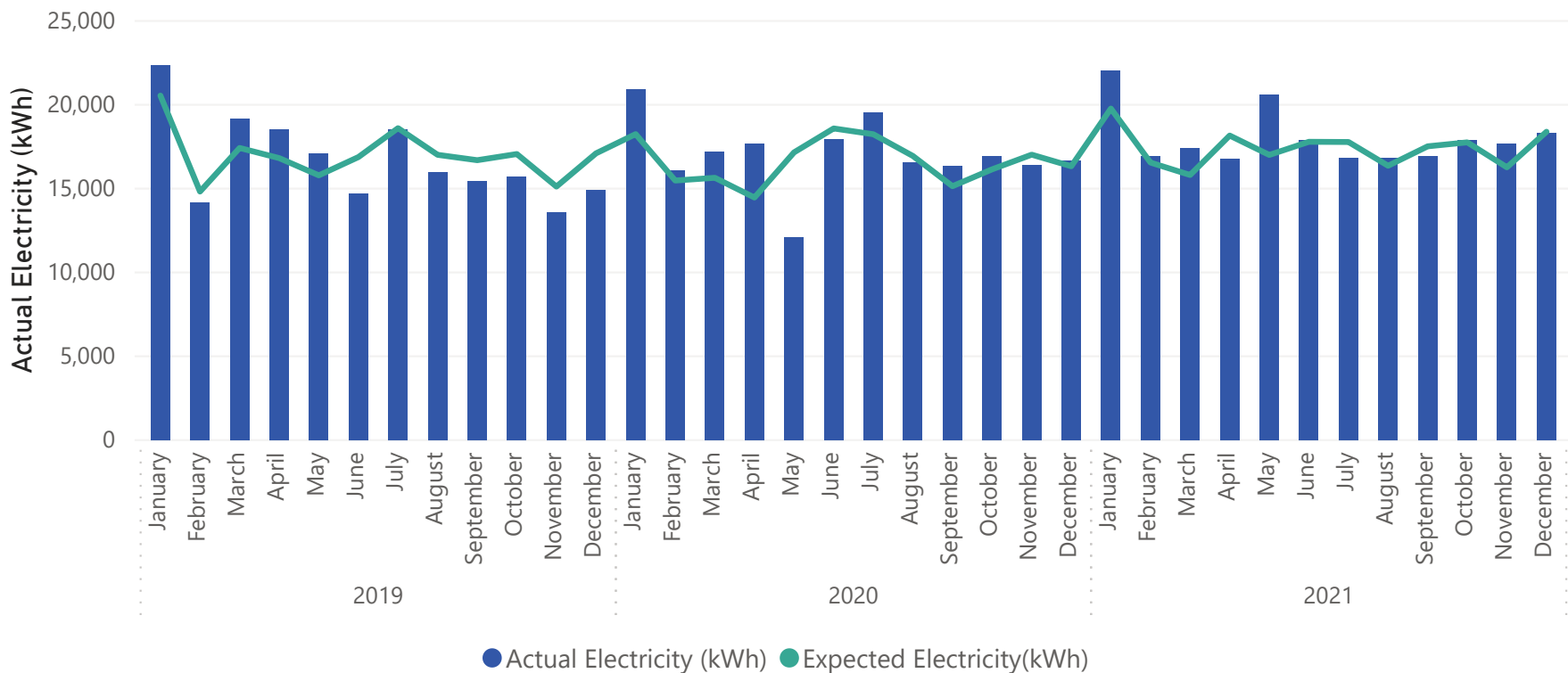
Ohope Oxidation Ponds

<p>\$15</p> <p>Monthly Energy Cost Savings</p>	<p>83</p> <p>Elec. Savings (kWh/mo)</p>	<p>0%</p> <p>Elec. Savings (%)</p>	<p>-7,020</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>11</p> <p>CO2e Savings (kg/mo)</p>
<p>-\$1,245</p> <p>R12M Energy Cost Savings</p>				<p>-903</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

Ohope oxidation pond electricity use was similar to baseline in December.

Ohope Oxidation Ponds Electricity Use Compared to Baseline (kWh)

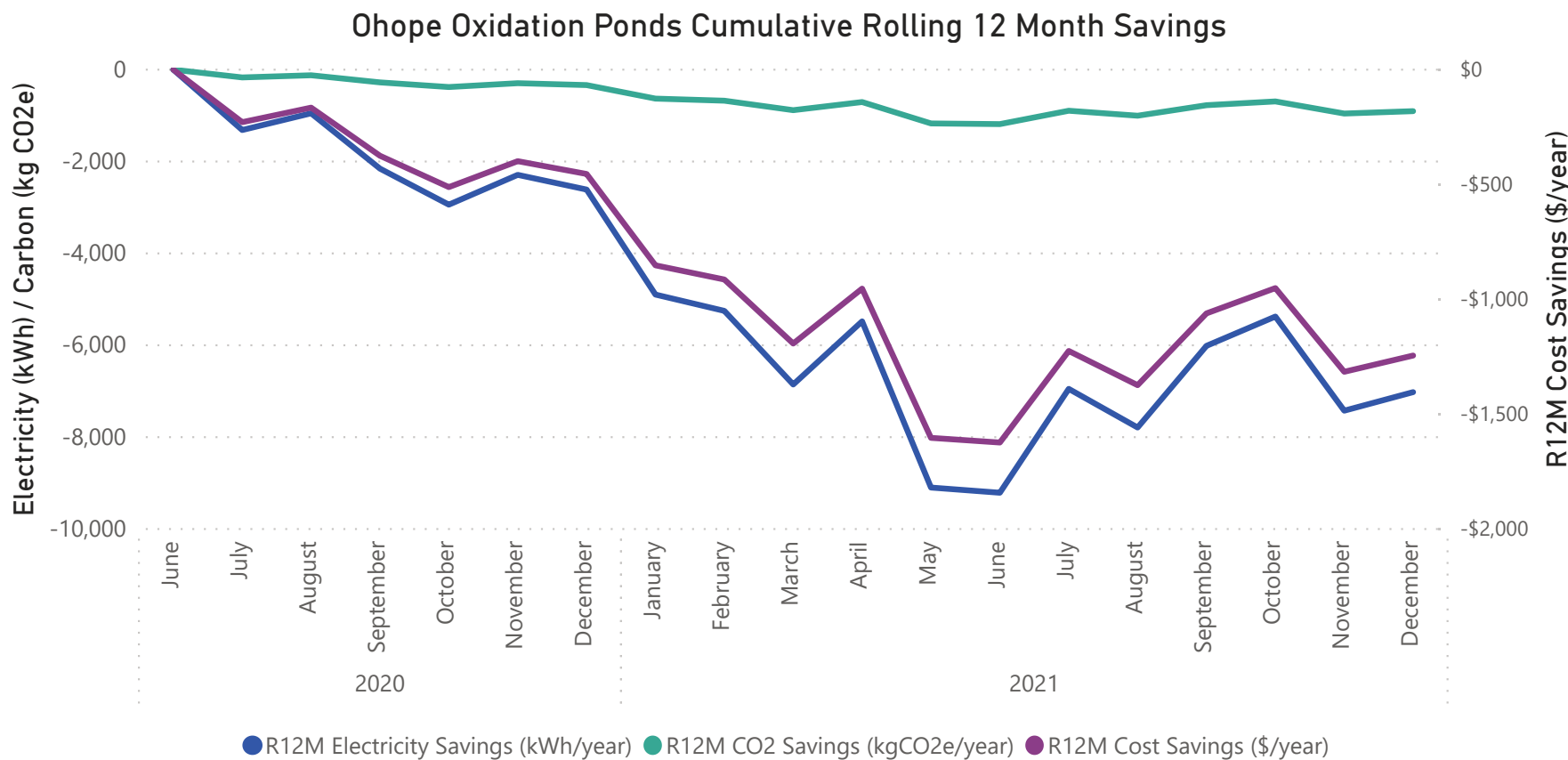
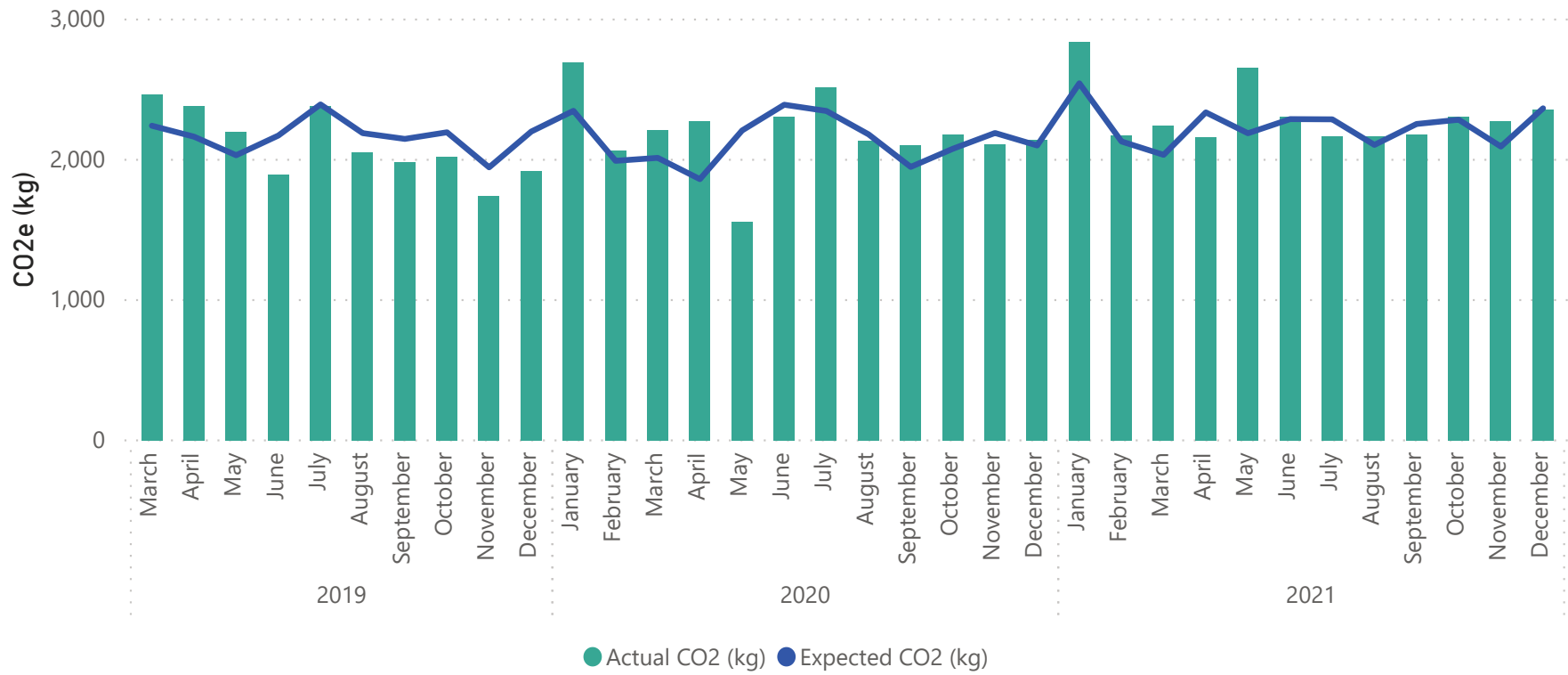


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

Whakatane District Council

Ohope Oxidation Ponds

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

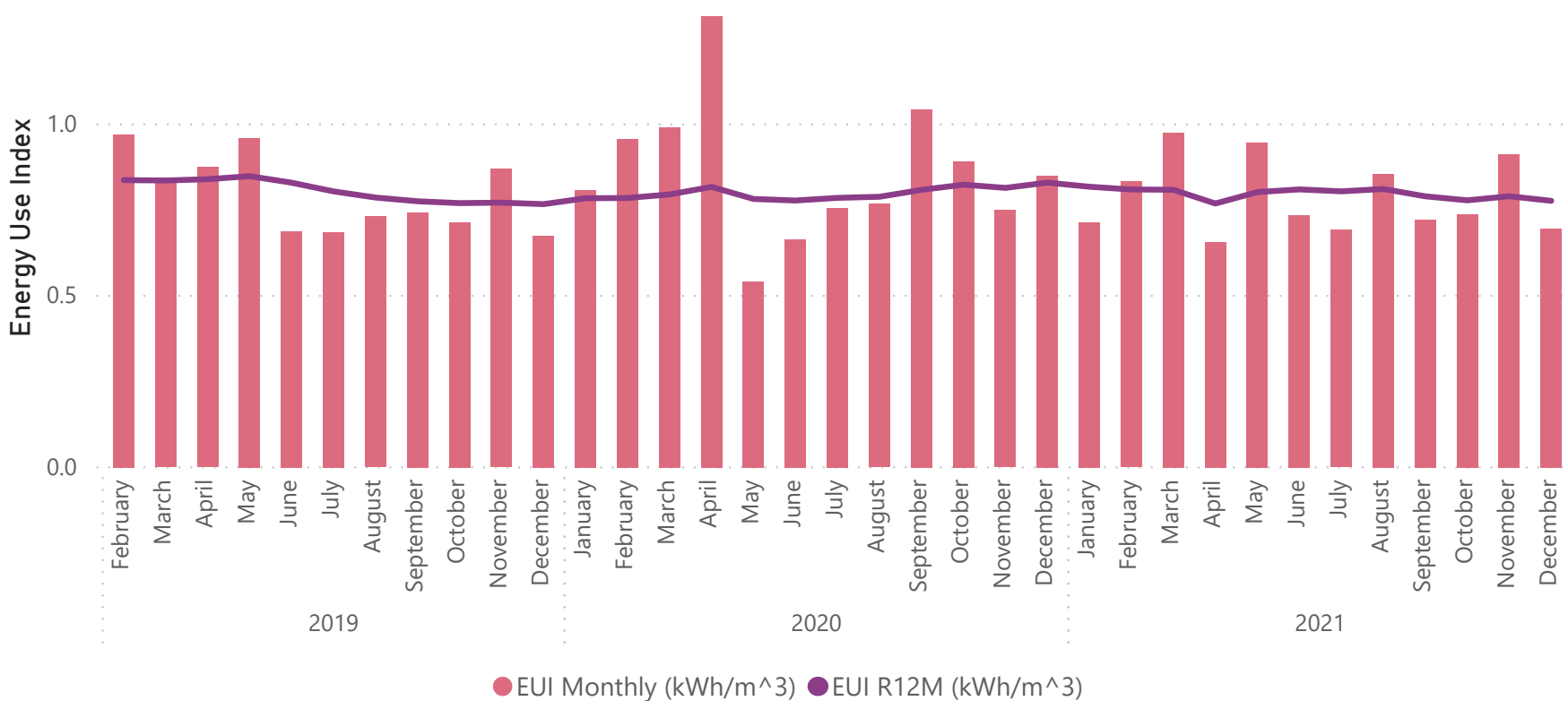


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

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

Whakatane District Council

Whakatane Oxidation Ponds

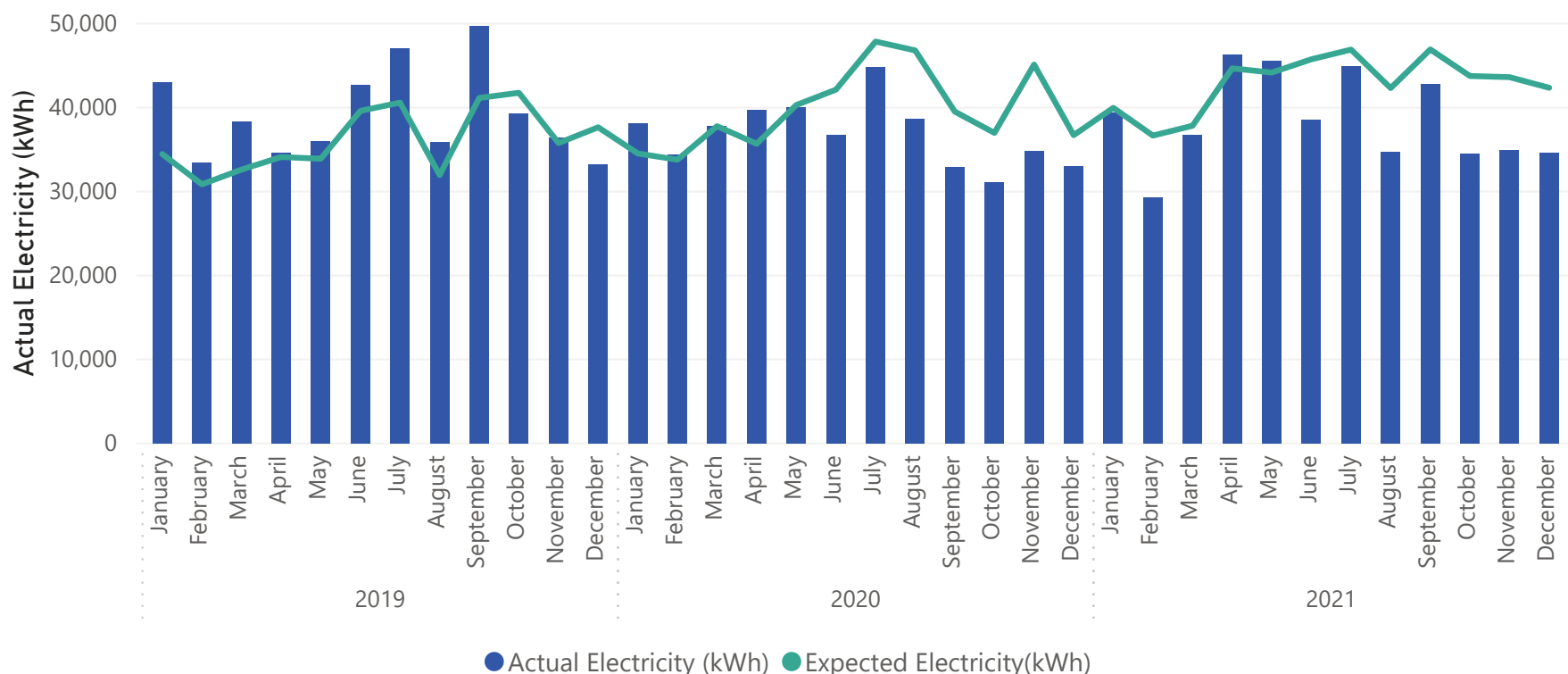
<p>\$1,047</p> <p>Monthly Energy Cost Savings</p>	<p>7,779</p> <p>Elec. Savings (kWh/mo)</p>	<p>18%</p> <p>Elec. Savings (%)</p>	<p>52,718</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>1,001</p> <p>CO2e Savings (kg/mo)</p>
<p>\$7,371</p> <p>R12M Energy Cost Savings</p>				<p>6,785</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

The Whakatane Oxidation Ponds have two ICPs, the aerators are set up as a time of use (TOU) account (supplied by Mercury), and the pumps are non-TOU (supplied by Genesis).

In December 2021, the oxidation ponds used a similar amount of electricity to the previous three months, however, the volume of water treated has decreased slightly. Rolling 12 month EUI has been steadily decreasing, which is good.

Whakatane Oxidation Ponds Electricity Use Compared to Baseline (kWh)

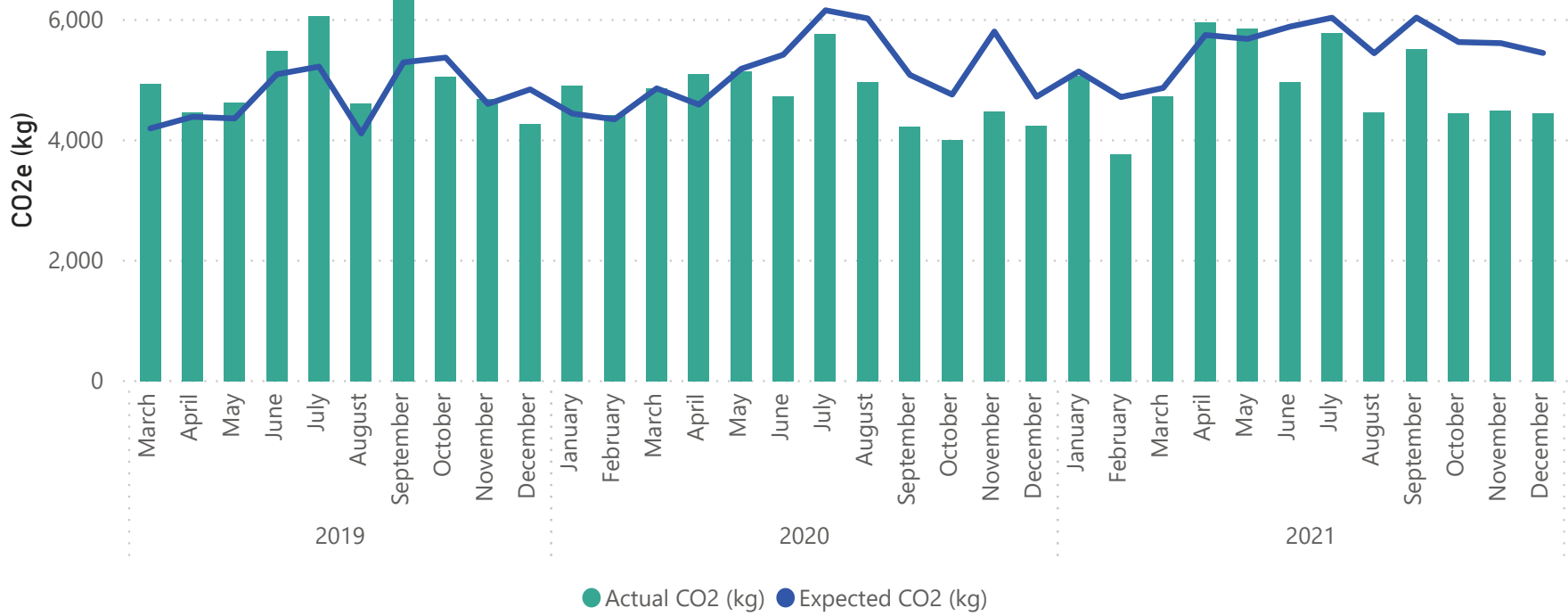


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

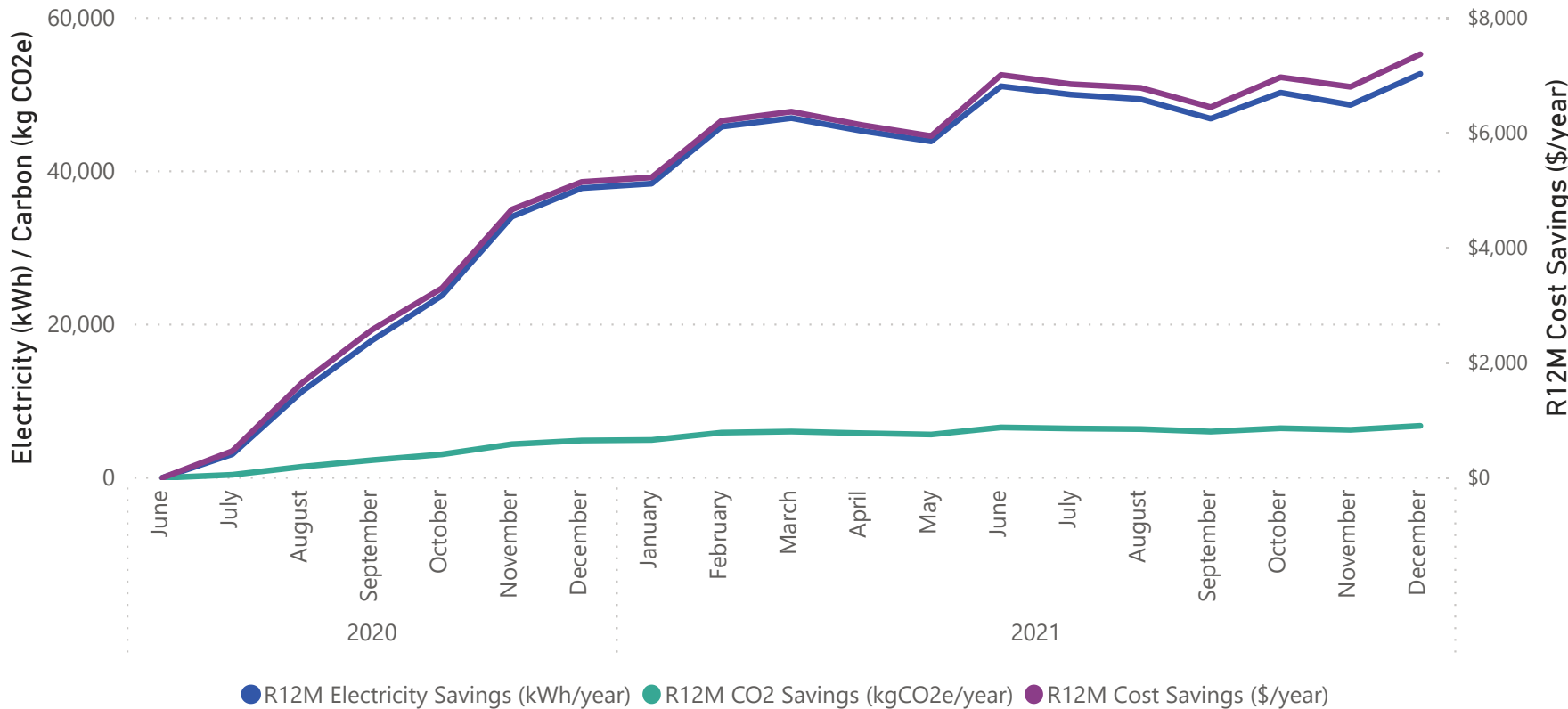
Whakatane District Council

Whakatane Oxidation Ponds

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



Whakatane Oxidation Ponds Cumulative Rolling 12 Month Savings

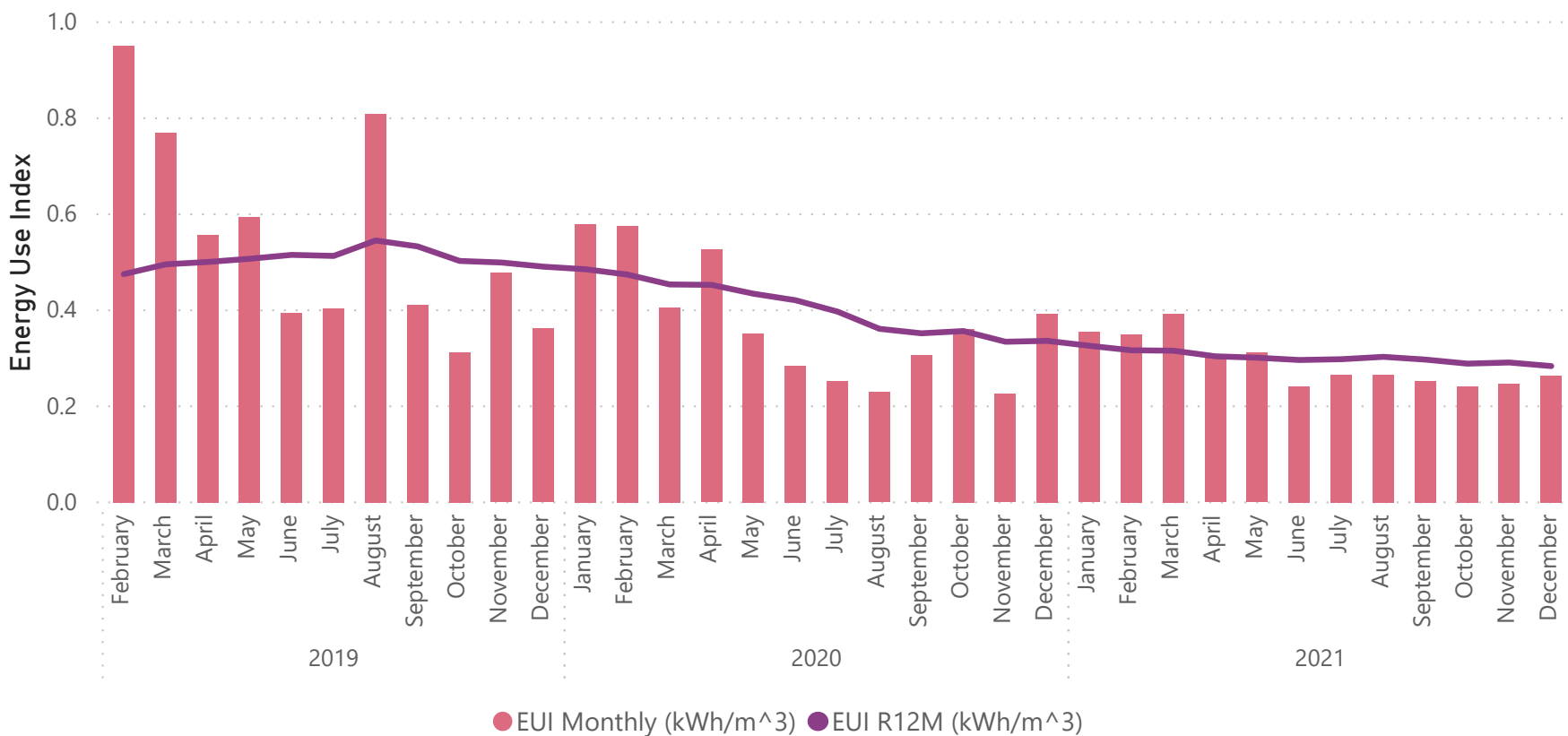


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

Whakatane District Council

Whakatane Oxidation Ponds

Whakatane 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

Whakatane District Council

McAlister Street Pump Station

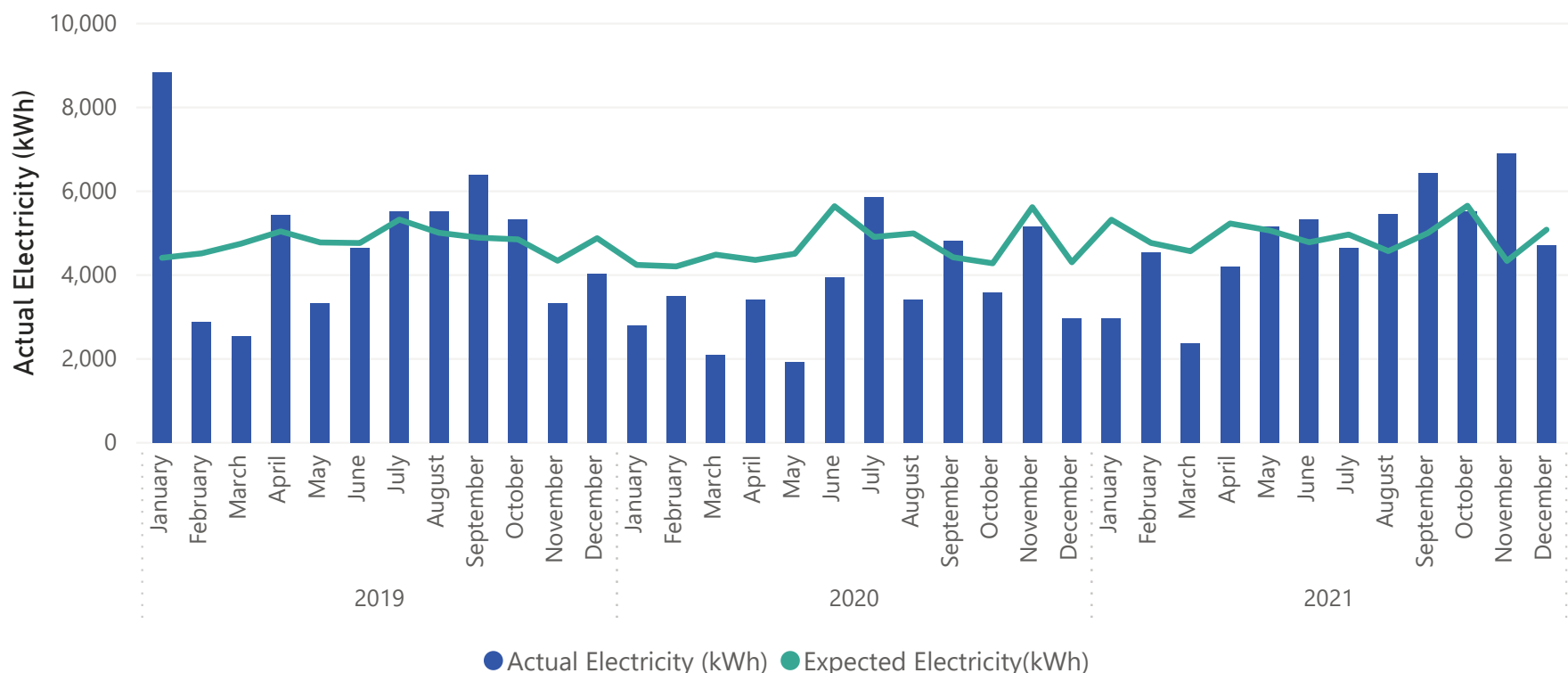
<p>\$259</p> <p>Monthly Energy Cost Savings</p>	<p>377</p> <p>Elec. Savings (kWh/mo)</p>	<p>7%</p> <p>Elec. Savings (%)</p>	<p>1,149</p> <p>R12M Electricity Savings (kWh/yr)</p>	<p>49</p> <p>CO2e Savings (kg/mo)</p>
<p>\$1,588</p> <p>R12M Energy Cost Savings</p>				<p>148</p> <p>R12M CO2e Savings (kg/yr)</p>

Comments:

A baseline was created for McAlister Street Pump Station that adjusts for the amount of rainfall at the Kopeopeo weather station. The baseline period is September 2020 to August 2021.

McAlister Street Pump Station is on a NHH account, some months' usage may be estimated by the retailer and captured by a subsequent meter reading. Manual readings at the end of each month would help with the accuracy of monitoring reports.

McAlister St Pumps Electricity Use Compared to Baseline (kWh)

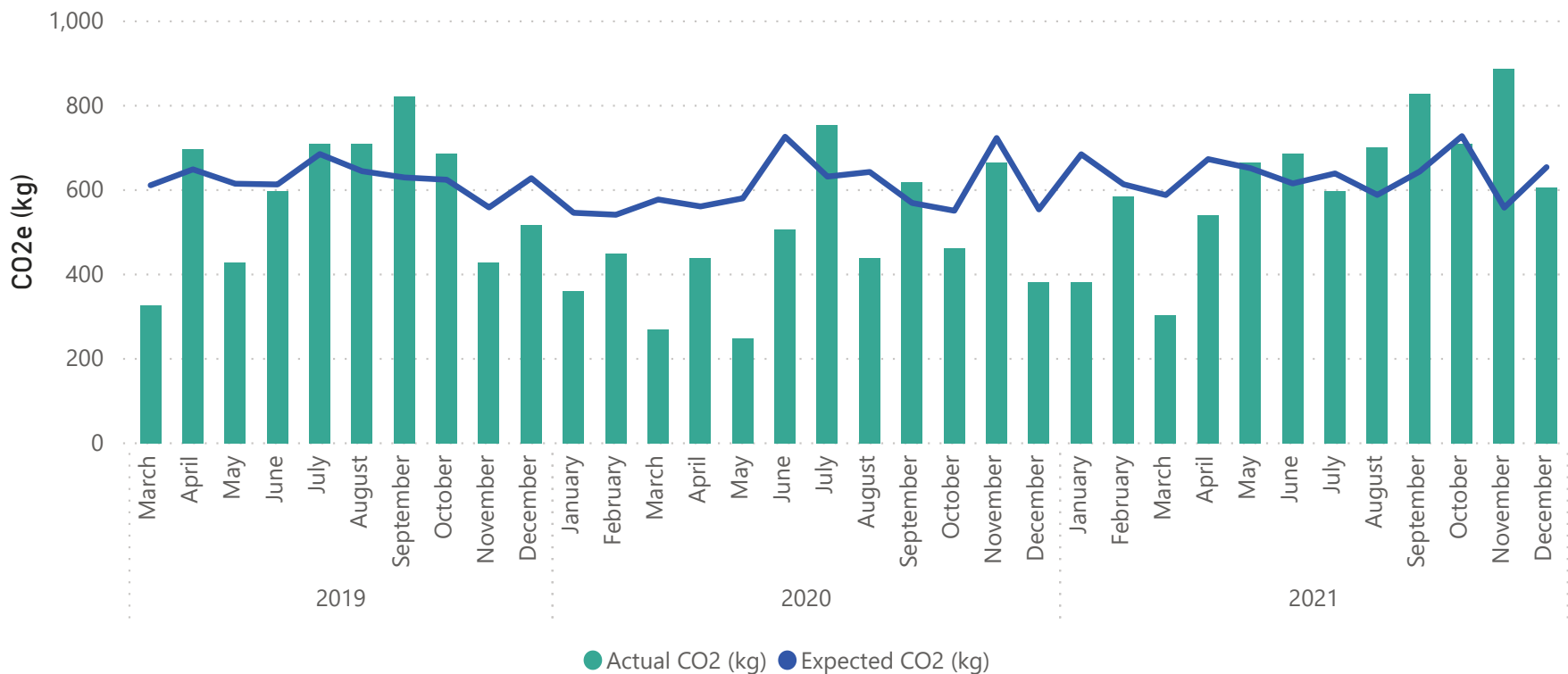


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

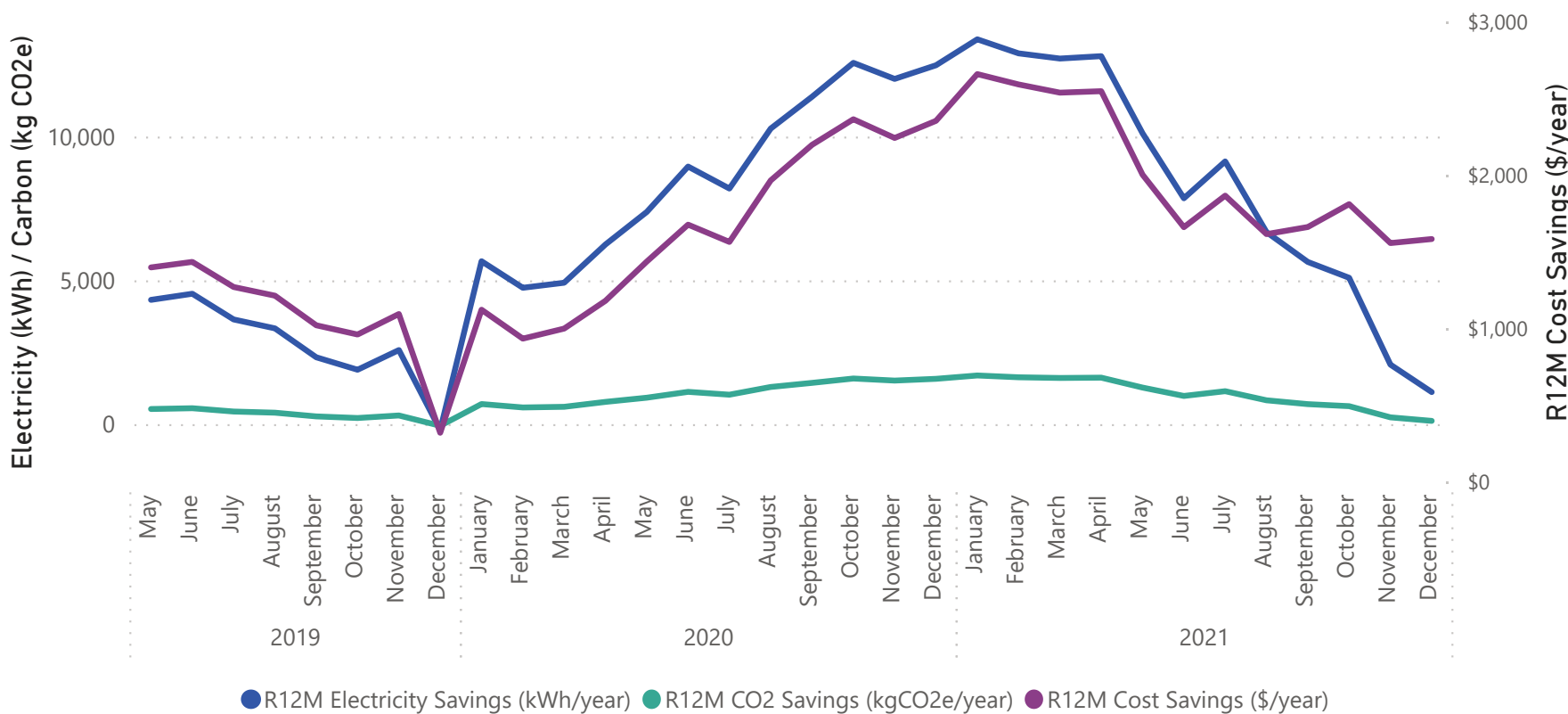
Whakatane District Council

McAlister Street Pump Station

McAlister St Pumps Carbon Emissions Compared to Baseline (kg CO2e)



McAlister St Pumps 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

Whakatane District Council

Rose Gardens Pump Station

\$758 Monthly Energy Cost Savings	3,889 Elec. Savings (kWh/mo)	92% Elec. Savings (%)	20,518 R12M Electricity Savings (kWh/yr)	501 CO2e Savings (kg/mo)
\$4,293 R12M Energy Cost Savings				2,641 R12M CO2e Savings (kg/yr)

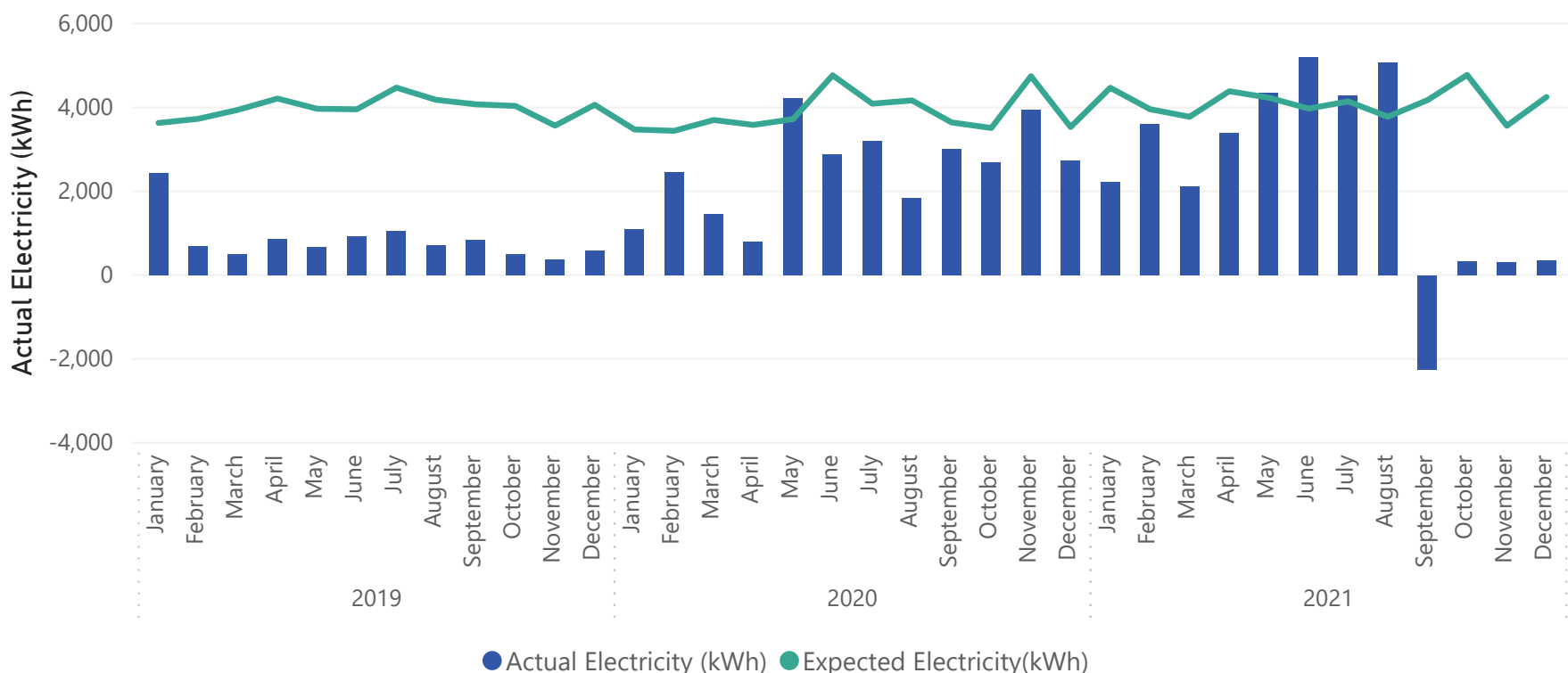
Comments:

A baseline was created for Rose Gardens Pump Station that adjusts for the amount of rainfall at the Kopeopeo weather station. The baseline period is September 2020 to August 2021.

The Rose Gardens Pump Station is on a NHH account, some months' usage may be estimated by the retailer and captured by a subsequent meter reading. The meter reading for August was over-estimated by the retailer, September's usage is derived from an actual reading and August's estimated reading. Credit was issued for the over-estimation in August 2021. Manual meter readings can improve accuracy of electricity usage.

Low usage in recent months reflect a positive change that was made in how the pump operates.

Rose Gardens Pumps Electricity Use Compared to Baseline (kWh)

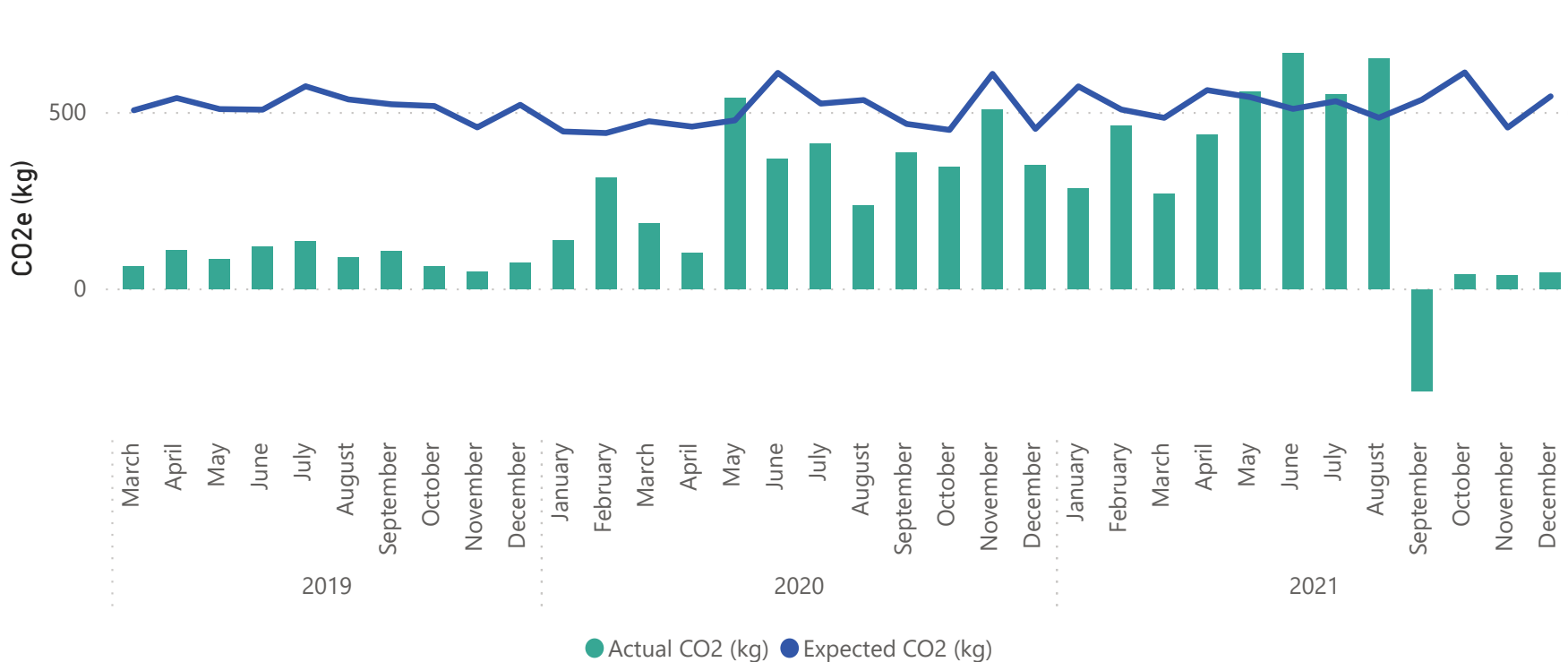


Note: New Zealand was in Covid-19 alert levels 3 and 4 from 23 March until 12 May, 2020. Energy use may have been impacted during this time

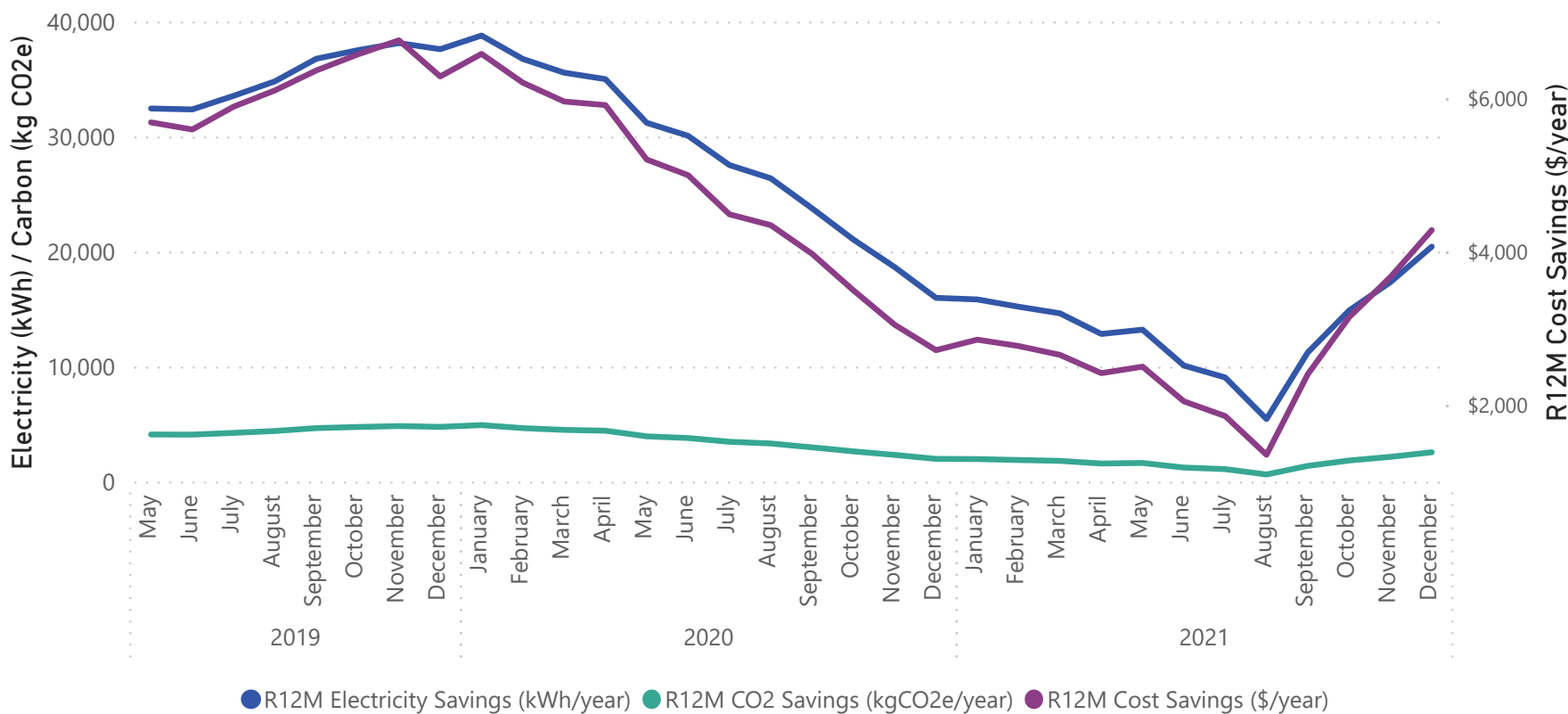
Whakatane District Council

Rose Gardens Pump Station

Rose Gardens Pumps Carbon Emissions Compared to Baseline (kg CO2e)



Rose Gardens Pumps 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