



Whistler Annual Greenhouse Gas Inventory and Climate Action Progress Report

2023 Annual Report

Resort Municipality of Whistler
whistler.ca



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2023 CLIMATE ACTION SUMMARY

Community Performance | RMOW Corporate Performance



COMMUNITY emissions


Community emissions come from all our community's buildings, vehicles and waste production - residential and commercial.



CORPORATE emissions


Corporate emissions come from all municipal operations including snow removal, fire services, community centres and administrative buildings.

Community wide GHG emissions in 2023 were **136,462 tCO₂e**


























Emissions increased 2% compared to 2022

RMOW corporate GHG emissions in 2023 were **2,202 tCO₂e**

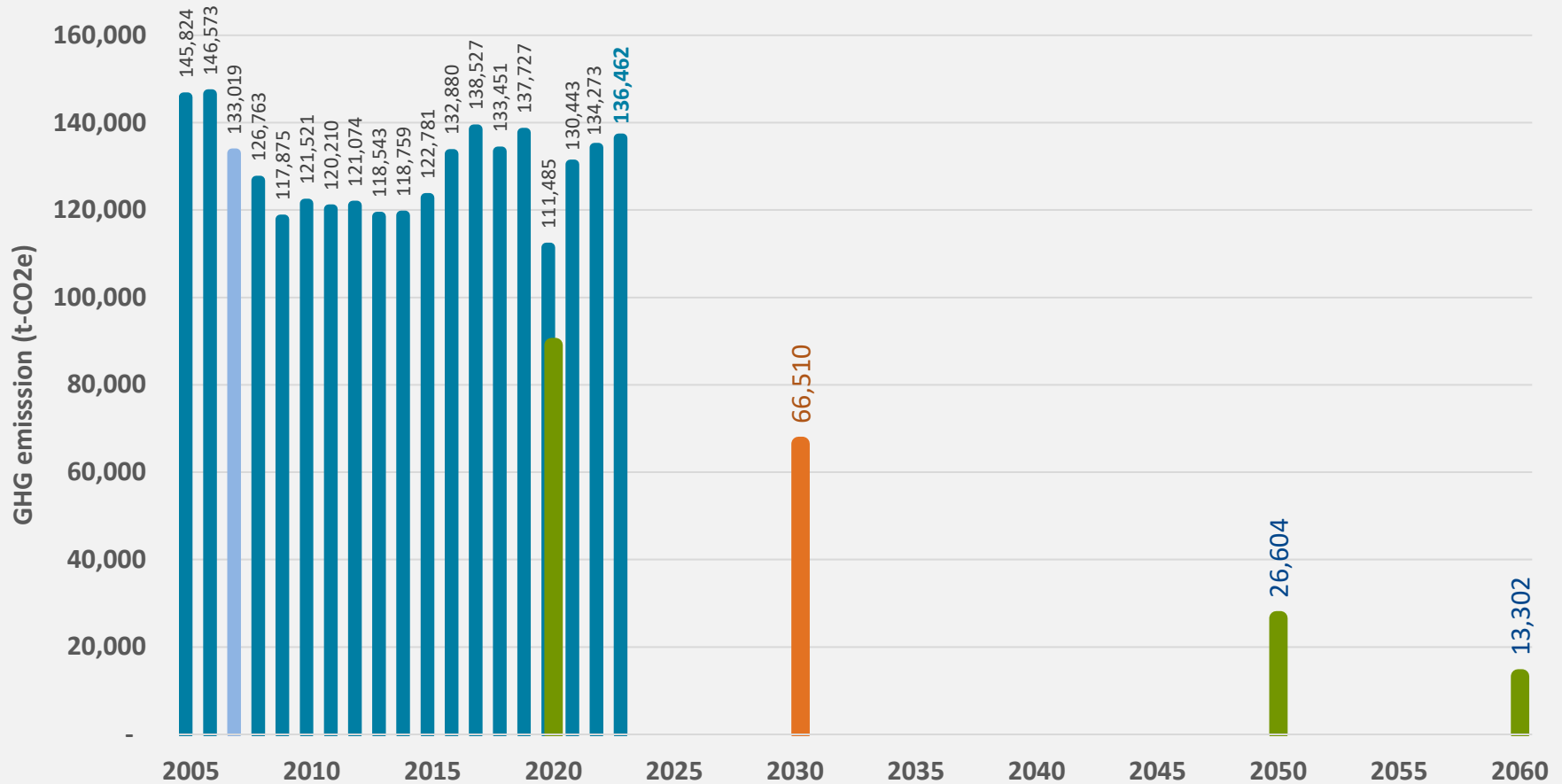


Emissions decreased 12% compared to 2022

1. BIG MOVES LEAD INDICATORS – PROGRESS TOWARDS OUR GOALS

	2019 Starting Point	Current	2030 Target	% Change from last year	% Change from 2019	Are we on Track?
 Community GHG Emissions in tCO ₂ e	137,727	136,462	65,500	 2% increase from 2022	 1% decrease from 2019	
 RMOW GHG Emissions in tCO ₂ e	2,360	2,202	1,100	 12% decrease from 2022	 7% decrease from 2019	
 Passenger Vehicle Emissions in tCO ₂ e	70,827	71,638	35,400	 4% increase from 2022	 1% increase from 2019	
 GHG per Population Equivalent in tCO ₂ /PE	3.3	3.4	2.5	 7% decrease from 2022	 3% increase from 2019	
 Building GHG Emissions from Natural Gas in tCO ₂ e	46,589	49,209	33,000	 No change from 2022	 6% increase from 2019	
 Waste to Landfill in tons/year	12,000	11,500	TBD	 No change from 2022	 4% decrease from 2019	

WHISTLER - Total Estimated Community GHG Emissions



The community of Whistler has committed to community level GHG reductions of 33% by 2020, 80% by 2050, and 90% by 2060 relative to a base year of 2007 (green bars). 2023 emissions are currently 3% above 2007, and 53% above the 2020 target. In 2020, Whistler adopted the Climate Action Big Moves Strategy which sets a new target for the near term of 50% reduction below 2007 levels by 2030 to motivate action and increase accountability (orange bar).

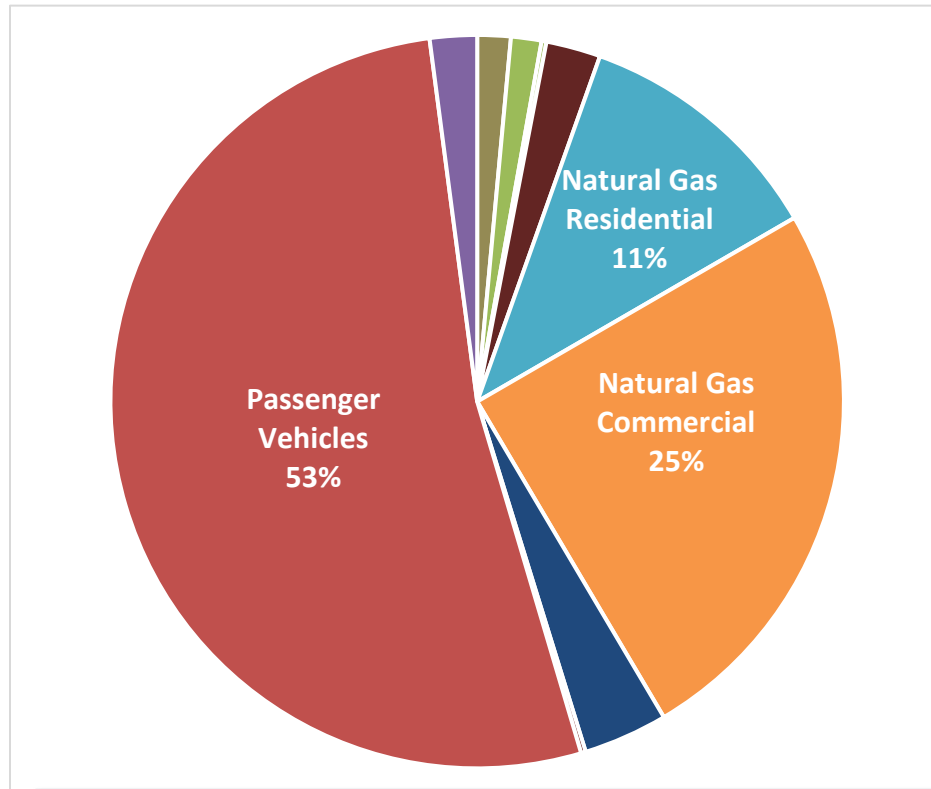
COUNCIL DECISIONS RELATED TO CLIMATE CHANGE IN WHISTLER

	Q1/Q2 2023	Q3/Q4 2023	Q1/Q2 2024	Q3/Q4 2024
REPORTS	<ul style="list-style-type: none"> Bi-annual Big Moves Climate Action Implementation Plan Progress Report 	<ul style="list-style-type: none"> 2022 Annual Whistler GHG Inventory and Climate Action Progress Report 	<ul style="list-style-type: none"> Whistler Corporate GHG Reduction Strategy Bi-annual Big Moves Climate Action Implementation Plan Progress Report 	<ul style="list-style-type: none"> 2023 Annual Whistler GHG Inventory and Climate Action Progress Report
BIG MOVE 1	<ul style="list-style-type: none"> E-bike share program awarded to BCAA (Evolve) and launched 		<ul style="list-style-type: none"> Whistler Active Transportation Strategy Whistler Transit Update Report 	
BIG MOVE 2			<ul style="list-style-type: none"> License of Occupation Agreement with BC Hydro for EV chargers in Day Lot 3 and Conference Centre parking lots 	
Big Move 3			<ul style="list-style-type: none"> Smart Tourism Progress Update Report 	
BIG MOVE 4	<ul style="list-style-type: none"> Building bylaw amended to adopt higher steps of BC Energy Step Code and Zero Carbon Step Code Council resolution for Codes Acceleration Fund application 			
BIG MOVE 5	<ul style="list-style-type: none"> Green and Inclusive Community Buildings Program application for MPSC retrofit work 			<ul style="list-style-type: none"> FCM Green Municipal Fund Community Building Retrofit grant for MPSC retrofit work

BIG MOVE 6	<ul style="list-style-type: none"> Zero Waste Action Plan Progress Report 		<ul style="list-style-type: none"> Zero Waste Action Plan Progress Report 	
ADAPTATION 1	<ul style="list-style-type: none"> RFP for Whistler Wildfire Defense Plan 	<ul style="list-style-type: none"> Community Wildfire Resiliency Plan Progress Report 	<ul style="list-style-type: none"> Wildfire and Emergency Preparedness presentation 	<ul style="list-style-type: none"> Amendments to Wildfire DPA coming to Council
ADAPTATION 2	<ul style="list-style-type: none"> Rainbow Park planned upgrades presented 		<ul style="list-style-type: none"> UBCM Emergency Preparedness Fund Grant Outdoor Potable Water Usage Amendment Bylaw 	<ul style="list-style-type: none"> Recreation Trail Strategy coming to Council
ADAPTATION 3		<ul style="list-style-type: none"> Pesticide Amendment Bylaw 	<ul style="list-style-type: none"> Wildfire and Emergency Preparedness update 	<ul style="list-style-type: none"> Priority Habitat Framework and mapping coming to Council Environmental Protection Bylaw amendment and new Tree Bylaw Coming to Council

2. 2023 COMMUNITY GHG AND ENERGY INVENTORY

2023 Estimated Whistler Community GHG

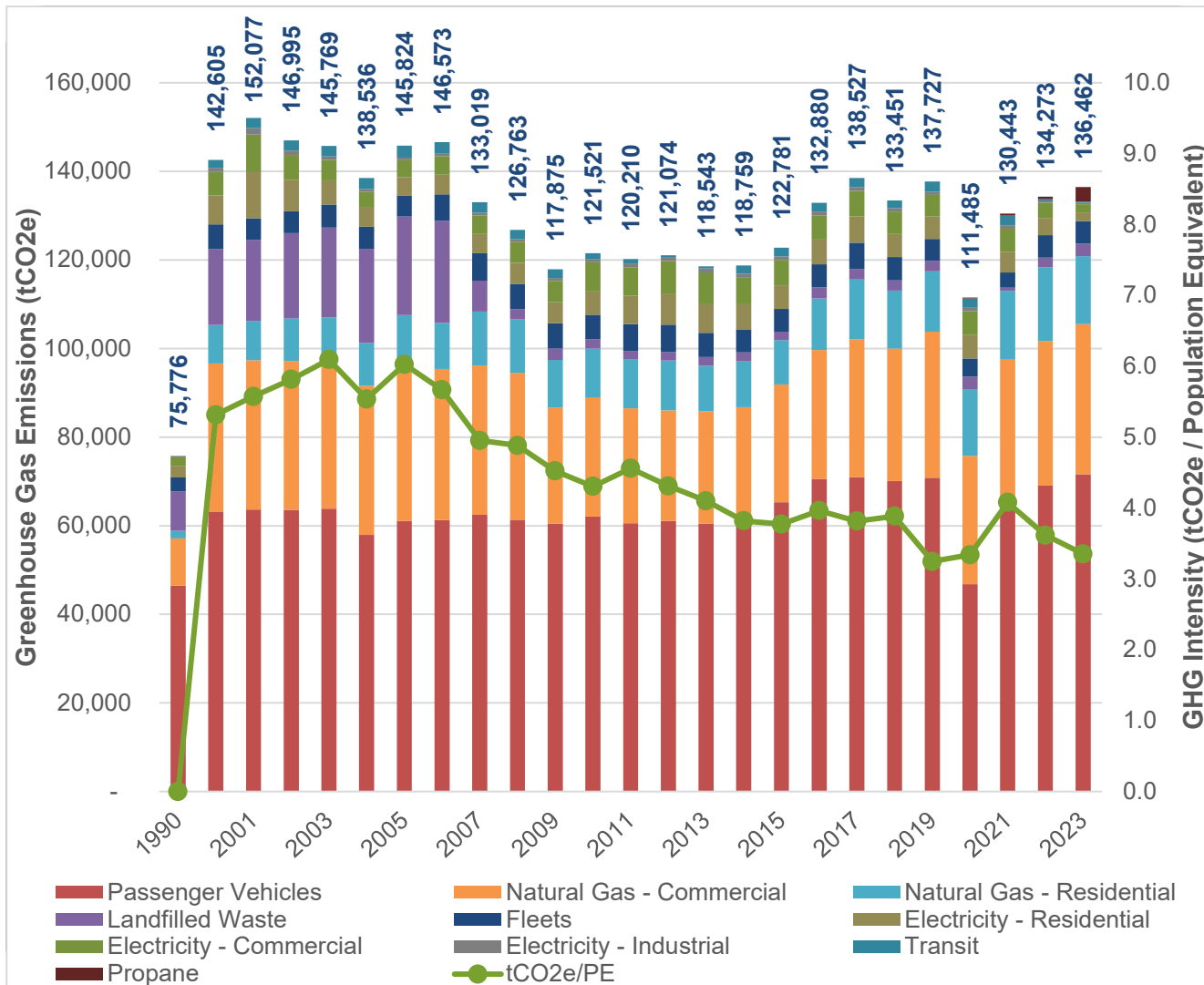


Source	tCO ₂ e	%
Passenger Vehicles	73,827	53%
Natural Gas - Commercial	32,442	25%
Natural Gas - Residential	16,537	11%
Fleets	5,205	4%
Landfill	2,156	2%
Propane	462	2%
Electricity - Residential	3,924	1%
Electricity - Commercial	3,400	1%
Electricity - Industrial	550	0%
Transit	355	0%

Community GHG emissions for 2023 are estimated to total 136,462 tCO₂e, which is a 2% increase compared to 2022 and 3% higher than 2007 (133,019 tCO₂e). It is a 1% decrease from 2019 (137,727 tCO₂e). Passenger vehicle emissions account for 53% of Whistler's community-wide GHG emissions, followed by natural gas for space and water heating in buildings which accounted for 36% of Whistler's total community-wide emissions in 2023.

Total Emissions: 136,462 tCO₂e

Estimated Whistler Community-Level Greenhouse Gas Emissions (1990,2000-Present)

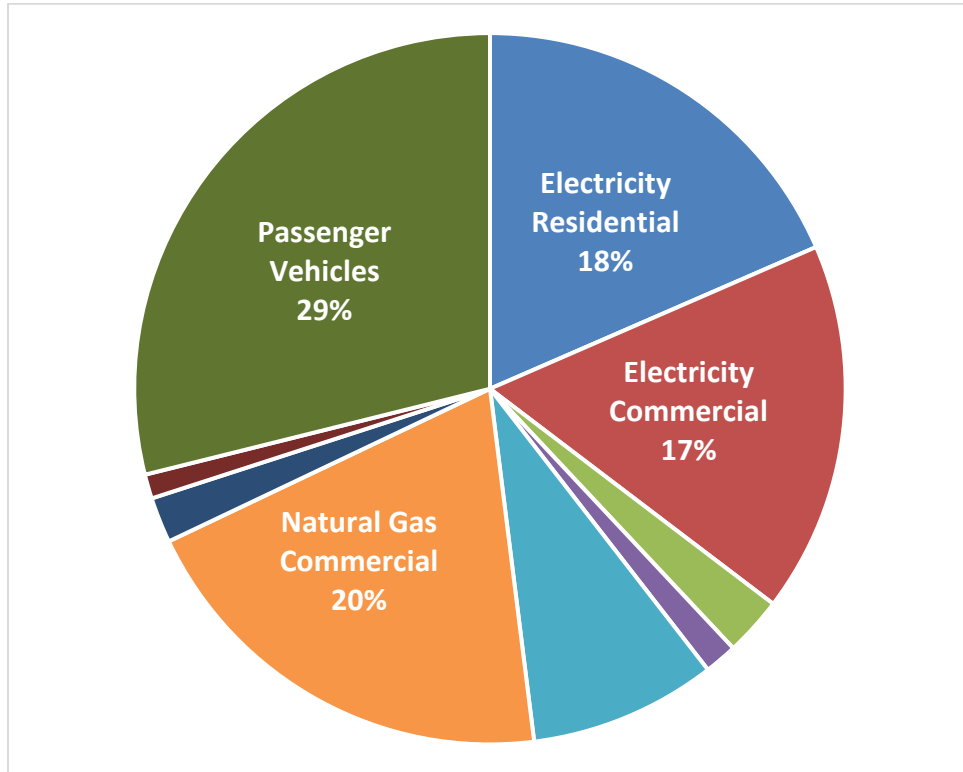


This figure shows a breakdown of Whistler’s community-level GHG emissions since 2000 to present. Whistler’s 2023 total community wide GHG emissions are approximately 2% higher than 2022 emissions. The main reason for this overall increase in GHG emissions is an increase in passenger vehicle emissions. Vehicle emissions increased by 4% in 2023 compared to 2022. Vehicle kilometers traveled (VKT) in Whistler in 2023 were similar to 2019. The number of electric and hybrid electric vehicles registrations in BC has increased, however, not enough to offset the GHG emissions increase resulting from increased VKT.

The 2022 GHG emissions per population equivalent (PE)¹ decreased by 7% to 3.35 tCO₂e/PE compared to 2022 (3.62 tCO₂e/PE). This means that the PE in Whistler increased from 2022 at a greater rate than the GHG emissions. While a decrease in GHG intensity is a positive change, GHG emissions must decrease regardless of PE. In other words, GHG emissions must be decoupled from PE. More information on Whistler’s population equivalent and other monitoring data can be found on the [whistler monitoring webpage](#).

¹ The nature of Whistler being a tourism community means the number of people in Whistler on any given day is generally far greater than the population counts provided Canada Census or BC Statistics estimates. The total Population Equivalent is an estimate of the total number of people in Whistler on an average annualized basis. The indicator is often used in 'per capita' measures to normalize the data and make it comparable to other communities.

2023 Estimated Whistler Community Energy Use



Source	GJ	%
Passenger Vehicles	1,043,471	29%
Natural Gas - Commercial	719,759	20%
Electricity - Residential	667,352	18%
Electricity - Commercial	609,219	17%
Natural Gas - Residential	307,601	9%
Electricity - Industrial	96,607	3%
Fleets	74,824	2%
Propane	53,821	1%
Transit	39,870	1%

The total community energy consumption in Whistler in 2023 was 3.61 M GJ. This was a 2% increase compared to 2022 (3.54 M GJ) and a 16% increase from 2007 (3.1 M GJ). Electricity is the most prevalent type of energy consumed in Whistler at 38% of the total consumption followed by vehicle fuels (29%) and natural gas (29%).

Total Energy: 3,612,523 GJ

3. BIG MOVES CLIMATE ACTION IMPLEMENTATION PLAN PROGRESS

MITIGATION – PROGRESS REPORT



BIG MOVE 1: MOVE BEYOND THE CAR

Indicators

Community 2030 Goal	Indicator	Data Source	Starting point 2019	Annual progress				Target 2030	Likelihood of achieving target
				2020	2021	2022	2023		
50% of all trips in Whistler are by transit and active transport	Annual transit ridership	Transit Data	3.2 M	1.4 M	1.5 M	2.5 M	3.5 M	4.5 M	MEDIUM
	Proportion of residents traveling to work via public transit, walking or biking ²	Community Survey	41%	48.5%	50%	53%	49%	50%	HIGH



When you see this symbol, it highlights an action or milestone that offers significant impact to reaching our goals.

² The proportion of residents travelling to work includes commuting trips by car-pooling which makes up about 8% of the total

Action Highlights & Milestones Q1/Q2 2023

	Key Initiative	Milestone / Progress Highlight		Responsible	
Public Transit & Shared Transportation	1.1	Increase public transport use by keeping fares affordable and service frequent and efficient through finalizing and implementing the BC Transit Future Action Plan and its outlined coordinated approach to make transit a preferred choice for personal transport.	<p>Received 7,650-hour expansion funding and implemented half of the expansion starting April 15, 2024. Initial expansion focused on Route 10 service span. Remaining expansion hours will roll out mid November 2024.</p> <p>Continue to offer free transit passes to all Grade 7 and high school students in Whistler. Also continuing with free transit to all community members on holidays and summer weekends.</p>		Transit and Transportation Demand Management
	1.2	Shorten trip times through phased implementation of actions and infrastructure improvements such as queue jumper, bus acceleration lanes, or dedicated bus lanes as identified in the Transit Future Action Plan. Implementation phases are: 1. Gain understanding of critical locations and causes for delays. 2. Improve key intersections and locations. 3. Tackle more difficult to improve sections.	Requested BC transit to review on-time performance by route to see where infrastructure improvements can help with on-time performance.		Transit and Transportation Demand Management
	1.3	Engage with the Provincial government and continue to collaborate with neighbouring communities on efficient and affordable regional transit.	<p>Work ongoing to engage Province and neighbouring communities.</p> <p>\$50,000 was approved by Council to be awarded to Pemberton Commuter.</p>		Transit and Transportation Demand Management
	1.4	Continually improve accessibility, inclusiveness and the overall travel experience of public transit.			Transit and Transportation Demand Management
	1.5	Continue to improve transit stop infrastructure such as shelters, benches, and accessibility.	<p>Applied for transit shelter funding contribution from BC Transit.</p> <p>Proceeding with design and highway application to MOTI for Highway 99 and Alpine way</p>		Resort Parks Planning

1.6 Implement affordable and accessible vehicle sharing programs.

Climate &
Environment

Key Initiative

Milestone / Progress Highlight

Responsible

1.7	<p>Prioritize development and maintenance of safe and accessible active transportation infrastructure, such as closing gaps in the Valley Trail Network, considering new connections that support commuting by bike, increasing secure bike parking, encourage installation of end of trip facilities and improving route safety.</p>	<p>Active Transportation Strategy adopted by Council on July 23, 2024. Next step to develop Active Transportation Comprehensive Network Plan.</p> <p>Three smart secure bike parking racks installed at the following locations:</p> <ul style="list-style-type: none"> • Meadow Park Sports Centre • Village Square • Whistler Olympic Plaza <p>Three priority projects on the Valley Trail Network have been identified and are underway.</p> <ul style="list-style-type: none"> • HW 99 at Bayshores tender ready drawings with MOTI for permit review and approval • Alpha Lake Park to Alta Lake Road continuing with necessary external approvals. • Blackcomb Way / Nancy Green Drive recommended for RMI funding in 2025 <p>Park and Valley Trail Strategy project initiated to consider Valley Trail lighting</p>	<p> Transit and Transportation Demand Management</p> <p></p>
1.8	<p>Scale up use of e-bikes and other e-mobility devices and address barriers to progress (E.g., Implement e-bike share program, improve route safety, add secure bike parking and e-bike charging infrastructure).</p>	<p>Work ongoing to include micromobility and e-bike regulatory updates in Park Use Bylaw.</p> <p>Municipal e-bike fleet continues to be used by municipal staff. Need identified for secure parking and regular maintenance.</p> <p>Expansion of Evolve E-bike Share program launched in spring 2024. As of Sept 8, 2024, 47,700 km were travelled on the Evolve bikes with over 11,000 trips. This is a 167% increase compared to 2023.</p>	<p>Transit and Transportation Demand Management</p> <p></p>


Land Use Consideration	Milestone	Milestone / Progress Highlight	Responsible
	1.9	Continued commitment to ensuring that Whistler is made up of increasingly complete and compact neighbourhoods.	
1.10	Ensure the development of compact neighbourhood nodes, by only considering development within the WUDCA ³ and prioritizing development in existing neighborhoods with access to transit, employment, and services.	<p>New density guidelines from the Province have been incorporated into the Zoning Bylaw.</p> <p>Lake Placid Road sub-area plan to increase density in this area.</p>	Planning

³ Schedule A (Whistler Land Use Map and Designations) establishes the Whistler Urban Development Containment Area (WUDCA), which focuses Whistler’s urban development within the Whistler valley corridor between Cheakamus Crossing and Function Junction to the south, and Emerald Estates to the north, and is consistent with Whistler’s Settlement Area Map (Map 1b) of the RGS. Within this corridor, the OCP seeks to maintain a comprehensive network of natural areas, open space and parks that separate and provide green buffers between developed areas. Residential accommodation, visitor accommodation, commercial, light industrial, institutional and community facilities are directed to be located primarily within the WUDCA. More information here: <https://www.whistler.ca/ocp/introduction-and-planning-context>



BIG MOVE 2: DECARBONIZE PASSENGER AND COMMERCIAL TRANSPORTATION

Indicators



Community 2030 Goal	Indicator	Data Source	Starting point 2019	Annual progress			Target 2030	Likelihood of achieving target	
				2020	2021	2022			
50% of all motor-vehicle km travelled are from zero-emission vehicles	# of ZEV's registered in Whistler	ICBC	77	121	123	132	256	3,300	



When you see this symbol, it highlights an action or milestone that offers significant impact to reaching our goals.

Action Highlights & Milestones



Key Initiative	Milestone / Progress Highlight	Responsible
<p>2.1 Expand accessible and affordable public EV charging network for residents and visitors as laid out in the Whistler EV Strategy.</p>	<p>Clean BC Communities Fund being used to install 41 Level 2 chargers and DC fast chargers between 2023 and 2025. A contract has been awarded to install two DC fast chargers on Main Street. Continue to see increasing usage of municipal EV charging network.</p> <p>Council Approved License of Occupation agreements (LOA) with BC Hydro to install Level 2 chargers and DC fast chargers at Day Lot 3 and Conference Centre Parking Lots on July 23, 2024.</p> <ul style="list-style-type: none"> • LOA signed with BC hydro to install up to 42 EV chargers in Day Lot 3. To be completed in two phases with Phase 1 commencing in spring 2025. • Proposed LOA with BC Hydro for installation of up to 8 DC fast chargers in the conference centre surface parking lot and up to 10 Level 2 chargers in the conference centre underground parking lot. 	<p>FCM / Climate & Environment</p>
<p>2.2 Incentivize residential (single-family and multi-unit) building EV charging installations by providing top-ups to Provincial incentives or by adopting ZEV-ready building requirements.</p>		<p>Climate & Environment / Planning</p>
<p>2.3 Electrify private and public fleets to take on a leadership role and establish Whistler as an EV-friendly community.</p>	<p>Two electric vehicles (F150 Lightning and an E-Transit) were added to the RMOW fleet. Up to four additional EVs anticipated to be added to the RMOW fleet before the end of 2024.</p> <p>Currently one Level 2 EV charger installed at the Public Works Yard for RMOW electric fleet. Installation of additional EV chargers at the Public Works Yard to be considered in 2025 budget.</p> <p>Centralized charging station (seacan) at the Public Works Yard has allowed for the expansion of battery hand tool fleet for Resort Operations and other departments.</p>	<p></p>

2.4	Work with BC Transit to move to a zero-emissions transit fleet.	BC Transit has announced the design for 16 electric bus chargers at the Whistler Transit Facility with plans to bring in 15 electric busses to Whistler.	 Transportation Demand Management
2.5	Support the shift to low carbon transportation options (E.g., EVs) through awareness, partnerships and outreach initiatives for residents, businesses, commuters and visitors.		Climate & Environment
2.6	Host webinars and other outreach events to inform fleet operators on medium and heavy-duty fleet electrification		Climate & Environment
2.7	Strategically increase parking costs to discourage the use of single occupancy vehicles.	<p>Starting July 1, 2024, daily and monthly parking rates were increased throughout the village.</p> <p>Whistler Blackcomb parking study under way with a roundtable discussion hosted on Sept 19, 2024.</p>	 Day Lot Operating Committee



BIG MOVE 3: REDUCE VISITOR TRAVEL EMISSIONS

Indicators

Community 2030 Goal	Indicator	Data Source	Starting point 2019	Annual progress					Target 2030	Likelihood of achieving target
				2020	2021	2022	2023	2030		
Whistler is a low carbon visitor destination	GHG emissions per population equivalent	Annual Report	3.6	3.68	4.27	3.90	3.35	2.5	 LOW	
	Total landfilled waste in kg per population equivalent	RMOW data / Wastech	325	374	368	318	284	65	 LOW	



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Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
3.1 Partner with the tourism and outdoor recreation sectors to define tourism and outdoor recreation in the future low-carbon world and to show leadership in facilitating and marketing a low-carbon vacation destination.	<p>Balance Model Version 3 review is complete, and work is ongoing to develop scenarios aligned with the Whistler Sessions.</p> <p>The Smart Tourism Committee has been established and the first meeting was held in September 2024.</p> <p>FE&A team has been working with 3rd party event coordinators to ensure climate emergency plans are included in event planning process. Positive example from 2024 Crankworx rolling out backup plan due to weather impacts.</p>	Climate & Environment / Economic Development
3.2 Partner with resort organizations and regional partners to encourage alternatives to personal vehicles travelling to and within Whistler, for example through marketing and communication, to achieve at least 50 per cent of international visitors arriving by bus or shuttle.		Climate & Environment
3.3 Promote Whistler's businesses that are leading on climate action.		Climate & Environment / Economic Development
3.4 Partner with resort organizations to encourage high quality/gold standard greenhouse gas offset purchases and carbon neutral vacations used as a short-term approach until direct reductions in the emissions related to travel can be achieved.	Quantification of GHG emissions related to visitation planned for later in 2024.	Climate & Environment
3.5 Partner with resort organizations to create marketing and communication about the benefits of longer duration travel and fewer annual trips.	RMOW supported proposed "Don't Love it to Death" signs which were installed across Whistler.	Climate & Environment / Economic Development
3.6 Partner with car rental agencies and shuttle bus companies to make EVs available for visitors, support the electrification of shuttle busses, and incentivize bus travel and capacity.		Climate & Environment

BIG MOVE 4: BUILD ZERO EMISSION BUILDINGS



Indicators

Community 2030 Goal	Indicator	Data Source	Starting point		Annual progress			Target 2030	Likelihood of achieving target
			2019	2020	2021	2022	2023		
All new buildings achieve the top step in B.C.'s Energy Step Code	% new Part 9 buildings at highest BCESC step	RMOW building department records	0	1	1	0	0	100%	MEDIUM
	% of new Part 3 buildings at highest BCESC step	RMOW building department records	0	0	0	0	0	100%	MEDIUM
	GHG emissions from buildings ⁴ in tCO ₂ e	Annual Report	50,500	55,400	54,700	57,315	56,617	40,000	MEDIUM



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⁴ GHG emissions from buildings include all GHG emissions related to natural use (residential and commercial) as well as electricity use (residential, commercial, and industrial).

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
4.1 Adopt progressively higher steps on the BC Energy Step Code to address new building envelope improvements and regulate GHG emissions from new buildings by either incentivizing low carbon energy systems or by adopting the Province's GHG targets within the buildings code.	<p>Energy advisory team hired to support Step Code implementation. Their work between 2024 and 2026 includes:</p> <ul style="list-style-type: none"> • Development of an engagement plan (completed) • Internal capacity building and training for RMOW staff (September) • Development of an internal step code compliance monitoring checklist and metrics to track compliance (Alpha model complete) • Builder Breakfast engagement and capacity building with industry (Fall 2024 onwards) <p>Funds for the energy advisor come from the Codes Acceleration Fund grant.</p>	Climate & Environment / Building / Planning
4.2 Collaborate with the Province on low carbon performance requirements and GHG emission limits for new buildings.	Continue to collaborate with the Province on the implementation of BC Energy Step Code and Zero Carbon Step Code.	Climate & Environment / Building
4.3 Promote capacity building opportunities and develop outreach campaigns for step code and low carbon energy systems for the building industry, home buyers, and realtors.	<p>Energy advisory team hired to support Step Code implementation. Their work between 2024 and 2026 includes:</p> <ul style="list-style-type: none"> • Development of an engagement plan (completed) • Internal capacity building and training for RMOW staff (September) • Development of an internal step code compliance monitoring checklist and metrics to track compliance (Alpha model complete) • Builder Breakfast engagement and capacity building with industry (fall 2024 onwards) <p>Funds for the energy advisor come from the Codes Acceleration Fund grant.</p>	Climate & Environment
4.4 Discourage carbon-based heating of outdoor spaces such as patio heaters, fossil fuel burning fire pits, heated driveways, outdoor hot tubs, pools and saunas, etc. through policy and/or permit changes.	<p>Energy advisory team hired and tasked to identify opportunities. Research to be completed with a recommendation in 2025.</p> <p>Funds for the energy advisor come from the Codes Acceleration Fund grant.</p>	Climate & Environment / Planning
4.5 Encourage low carbon design (efficient use of materials and optimized spaces), low carbon material use (E.g., mass timber, lower GHG-intensive cement, recycled		Climate & Environment






	materials), and low carbon construction practices (E.g., limited construction site heating) of new buildings.	
4.6	Build RMOW staff capacity related to embodied carbon emissions.	Climate & Environment
4.7	Demonstrate RMOW leadership when it comes to new municipal building construction with the goal to develop guidance and inspiration.	Construction is underway for new energy efficient building as part of South Whistler Water Supply Project. Facility Construction Management
4.8	Streamline the municipal building permit process to minimize administrative burden for property owners, developers and RMOW staff as relates to additional GHG related tasks and requirements.	Energy advisory team hired to support Step Code implementation. Their work between 2024 and 2026 includes identifying opportunities to prioritize permitting process to support higher Steps / lower GHGs. Funds for the energy advisor come from the Codes Acceleration Fund grant. Building Department
4.9	Provide financial incentives/rebates for testing air tightness during and after construction.	Building Department / Climate & Environment
4.10	Develop a roadmap to require embodied carbon calculations for Part 3 buildings as part of permit submissions.	Climate & Environment



BIG MOVE 5: MAKE EXISTING BUILDINGS BETTER

Indicators

Community 2030 Goal	Indicator	Data Source	Starting point 2019	Annual progress				Target 2030	Likelihood of achieving target
				2020	2021	2022	2023		
20 in 2022 homes switch from fossil fuel heating to a heat pump, 61 per year thereafter	# of heat pump incentives accessed (goal 20 for 2022, 61 per year thereafter)	Retrofit Assist	0	0	1	1	4	500	 MEDIUM
	Natural gas use from residential buildings in 1000 GJ	Annual Report	273	300	312	333	307	218	 LOW
	Natural gas use from commercial buildings in 1000 GJ	Annual Report	661	580	626	673	720	400	 LOW



When you see this symbol, it highlights an action or milestone that offers significant impact to reaching our goals.

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
<p>5.1 Develop and implement a program that supports energy efficiency and low carbon heating system retrofits in single family homes. The program is to address barriers to retrofits, support energy assessments to identify the best retrofit opportunities, identify financial incentives, and provide municipal top ups.</p>	<p>Retrofit Assist program launched second intake in the spring of 2024 after first intake was full.</p> <ul style="list-style-type: none"> • 45 applicants • 17 EnerGuide evaluations completed • 4 participants completed retrofit <p>Retrofit Assist now being expanded to other municipalities in BC applying learnings from Whistler, Squamish and Rossland.</p> <p>RMOW continues to top up Provincial Clean BC Better Homes rebate.</p> <ul style="list-style-type: none"> • Fuel switch to air source heat pump \$350 • Heat pump water heater \$1,000 • Electric service upgrade \$500 • Contractor incentive \$300 	<p>Climate & Environment</p>
<p>5.2 Collaborate with the Province on the proposed retrofit code.</p>		<p>Climate & Environment</p>
<p>5.3 Demonstrate RMOW leadership for municipal building efficiencies and GHG emission reductions by identifying retrofit opportunities in all corporate buildings, developing a timeline and implementing.</p>	<p>The Green Municipal Fund Community Buildings Retrofit grant was identified as a suitable grant for proposed Meadow Park Sports Centre envelope repairs and low carbon retrofit. Pre-application for grant currently underway. In the interim arena arched window replacement completed which will improve energy efficiency.</p> <p>Successful application to BC Hydro for a full time two-year Corporate Energy Manager position at the RMOW. Position is 50% funded by BC Hydro and the remaining 50% is funded by the RMOW through existing 2024 budget. Interviews for this position will be held in fall 2024.</p>	<p>Facility Construction Management</p>

	<p>Awarded BC Hydro and Clean BC grant funding for Prism Engineering to conduct an energy study at Municipal Hall, Public Works Yard and Maury Young Arts Centre.</p> <p>Annex construction almost complete. New structure includes energy efficiency improvements such as heat pumps, external insulation and window upgrades.</p> <p>RFQ issued for Spruce Grove Field 3 lighting replacement.</p> <p>Wastewater treatment plant heating and venting feasibility study underway with presentation of recommendations to internal staff planned for fall 2024.</p>		
5.4	Develop education and outreach materials such as a retrofit toolkit on energy efficiency retrofits and low carbon energy systems for home and business owners as well as contractors and other retrofit stakeholders.	Climate & Environment	
5.5	Discourage carbon-based heating of outdoor spaces (e.g., patio heaters, fossil fuel burning fire pits, heated driveways, outdoor hot tubs, pools and saunas, etc.) and identify policy and/or a regulatory mechanism to regulate outdoor heating.	Energy advisory team hired and tasked to identify opportunities. Research to be completed with a recommendation in 2025.	Planning Department
5.6	Work with operators and managers of larger commercial buildings (especially hotels) to advance this Big Move in their building(s) by sharing information on best practices and benchmarking.	<p>Successful application to BC Hydro for Implementation Offer funding of \$14,250 to host two additional workshops focused on hotel carbon reduction in Whistler. First workshop was held in May 2024 and second workshop planned for November 2024. Prism Engineering supported participating hotels with energy assessments.</p> <p>Nominated for 2024 Climate & Energy Action Award for this project.</p>	 Climate & Environment
5.7	Support strata residents, councils, and property management companies to implement energy efficiency and low carbon heating system retrofits. Explore the option to expand the retrofit program from single family homes to multi-unit buildings and other building types.	Climate & Environment	

5.8

Advance a system of voluntary and mandatory energy benchmark reporting across Whistler's large energy consumers.

Successful application to UBC Sustainability Scholar program to develop a covered buildings list, which is the first stage of developing an Energy Reporting Bylaw. Scholar commenced work on May 15, 2024, project concluded August 15, 2024. .



Climate &
Environment



BIG MOVE 6: CLOSE THE LOOP AND SHIFT TOWARD LOWER CARBON CONSUMPTION

Indicators

Community 2030 Goal	Indicator	Data Source	Starting point 2019	Annual progress				Target 2030	Likelihood of achieving target	
				2020	2021	2022	2023		Target 2030	Likelihood of achieving target
Reduce waste sector emissions by 95%	Waste diversion rate	RMOW Solid Waste	45%	43%	49%	47%	47%	95%		MEDIUM
	Tonnes of waste to landfill	Wastech	12,000	12,000	11,000	11,500	11,561	2,400		LOW
Zero waste targets	GHG emission from waste sector	Wastech/ RMOW data	2,391	2,934	690	2,156	2,837	TBD		HIGH



When you see this symbol, it highlights an action or milestone that offers significant impact to reaching our goals.

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
<p>6.1 Continue commitment to implement Whistler's Zero Waste Plan with its goal to move progressively toward Zero Waste in a cost-effective, efficient and environmentally sound manner, and substantially reduce GHG emissions associated with waste management, and embodied in products.</p>	<p>Scale plaza construction to twin existing scale is complete. Completion of this project will make the transfer station more efficient.</p> <p>Hired AWARE to engage community about new Provincial Single Use and Plastic Waste Prevention Regulation effective July 15, 2024. Engagement focused on bringing awareness to local businesses to support compliance.</p>	Solid Waste
<p>6.2 Improve organic waste reduction and landfill diversion from commercial operations and multi-unit residential buildings.</p>	<p>Consultant has finished providing feedback to food service managers and property managers on the assessment of waste management rooms. Currently assessing the benefits of the waste management room assessment to determine if an assessment should be completed for other industries.</p> <p>Solid waste communications plan for 2024 is ongoing. Outreach also happened in person at events such as the Inside Scoop and the spring AWARE garage sale and clothing swap.</p>	Solid Waste
<p>6.3 Reduce construction waste focusing on organic materials such as waste wood.</p>	<p>Deconstruction, materials selection and construction waste education resource under development. Engagement planned for winter 2024/2025.</p>	Solid Waste
<p>6.4 Demonstrate RMOW leadership by embedding GHG emissions and waste considerations into municipal operations and procurement practices. Conduct regular interval audits and reporting to understand RMOW progress towards meeting and beating the 80 per cent waste diversion goal as outlined in the Zero Waste Plan.</p>		Solid Waste/ Finance
<p>6.5 Engage with residents, visitors and local businesses to advance sustainable consumption, to support locally reusable products and packaging, a local shared economy, and other local carbon reduction projects.</p>	<p>Community climate action events held at the library:</p> <ul style="list-style-type: none"> Two Repair Café events in partnership with AWARE and the Waste Management Department. Three "sold out" Beginner Bike Maintenance workshops in partnership with RMOW's Transportation Management Team and AWARE. 	Solid Waste

- Expert Panel Series: Michael Allen presented his "Spring Bear Update" to a "sold out" crowd.
- "How to be Bear Smart in Whistler" program in partnership with RMOW's Bear Smart program assistant.
- To reduce our environmental footprint, the Summer Reading Club craft programs were planned by soliciting recycled donations from other RMOW staff and departments (e.g., 2-litre pop bottles, aluminum pie plates, and plant cuttings), rather than buying new materials.
- Veganuary display to highlight our robust collection of vegan cookbooks available for patrons to borrow.
- Staff book repair training to extend the life of items in our collection.
- In partnership with the SLRD, during Food Waste Action Week, we hosted an interactive display in our lobby to teach people how and where to store food to minimize waste.
- Earth Day display to promote items from our Sustainability collection, as well as related resources such as the Seed Library.

6.6 Develop a renewable energy strategy focused on exploring potential renewable energy production opportunities and partnerships.

Climate & Environment

6.7 Use low carbon fuels for waste-related transportation to reduce transport emissions.




Solid Waste

ADAPTATION - PROGRESS REPORT



ADAPTATION GOAL 1: Minimize wildfire threats to human health and safety, private property, infrastructure, wildlife, and natural assets.

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
<p>A1.1 Implement the Community Wildfire Resiliency Plan (CWRP) in collaboration with relevant partners.</p>	<p>Education – Presentation to Council on May 28, 2024, on wildfire and emergency preparedness. FireSmart community information workshop at the Library on August 15.</p>	<p> Climate & Environment / Protective Services</p>
	<p>Community planning – Updates to Wildfire DPA planned for 2024 / 2025 OCP update</p>	
	<p>Interagency Cooperation – Wildfire Internal Coordination Group meets monthly to coordinate between RMOW departments and track progress on implementation of the CWRP. Collaboration with CCF on landscape level fuel management ongoing. Continue to access DMAF funding to treat high-risk areas within the CCF and around Whistler.</p>	<p></p>
	<p>Training –WFRS, BC Wildfire, W/B staff, Pemberton FD, RMOW conducted annual joint wildfire training exercise on May 1st. 4 WFRS members attended Task Force Team Leader training March 7 & 8. Bringing total TFT trained members to 10. Wildland Firefighter 1 Train the trainer done for 2 more staff during training officer conference in Squamish. Three S-100 & S-185 courses completed in spring 2024 for total of 46 people certified. 2 additional courses planned for fall.</p>	<p></p>
	<p>Emergency planning – Updates to public facing evacuation brochure. Poster for hotel guests to get them signed up for Whistler Alert. Evacuation exercise in April involved several different stakeholders involved with a great turnout. Identified lessons learned to implement going forward. Monitoring what happened in Jasper to apply lessons learned.</p>	

Vegetation management – High priority fuel treatment areas completed in 2024:

- Emerald West (partially complete)
- Brio
- Brio extension (partially complete)



HW 99 delayed, awaiting Preliminary Field Assessment from Lil'wat First Nation

A1.2 Continue to implement Wildfire Protection Development Permit Areas through the OCP.

Ongoing, existing exceptions will be reviewed as part of the amendments to the Wildfire DPA in the Planning Department.

Planning Department



ADAPTATION GOAL 2: Increase the resilience of built assets, infrastructure and services to endure extreme weather and environmental events.

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
A2.1	<p>Review and improve stormwater management plans to ensure capacity and resilience in consideration of anticipated climate changes.</p> <p>Design work to replace old culverts will consider climate change (e.g. higher peak flow, higher storm frequency and intensity)</p> <ul style="list-style-type: none">• Bayshores culvert repair• Meadow Creek (Alpine) culvert replacement <p>A levels of service framework for identified natural assets was completed in March 2024, as part of the municipal natural assets management initiative.</p>	Engineering, / Climate & Environment
A2.2	<p>Update flood hazard plans in consideration of anticipated climate changes, such as storm frequency and intensity.</p> <p>Modelling on 21 Mile / Alta Creek complete. Currently evaluating recommendations to identify next steps. Planning anticipated for 2025.</p> <p>Drainage model review for large watercourses in Whistler is ongoing.</p> <ul style="list-style-type: none">• 21 Mile complete• Fitz modelling annually <p>Draft Fitz Emergency Response Plan underway.</p> <p>Advanced warning system on Fitz debris flow barrier being installed.</p>	Flood Protection Systems / Planning
A2.3	<p>Update plans and policies to protect the quality and quantity of Whistler's potable water and fire-fighting water supply from potential contamination and drawdown related to the anticipated impacts of climate change (i.e., extreme rain/snow events and longer hotter drier summers).</p> <p>Outdoor Potable Water Use Bylaw has been implemented. Initial data indicates a 14.5% decrease in potable water demand for June/July in 2024 relative to 2023.</p> <p>Installation of ICI meters continues. Mock billing still planned for 2024.</p>	Roads & Drainage / Emergency Planning / Parks & Village Ops

	<p>Drafting RFP to update Long Term Water Supply Plan for Whistler. Implementation in 2025.</p> <p>Once through cooling bylaw update planned for 2024.</p> <p>Communications for Outdoor Potable Water Use bylaw is underway. Website updated, door hangars and pamphlets.</p> <p>Continuing to install sub-surface irrigation and continuing to convert lawns to lower-water need planting. Example is outside Municipal Hall where lawn was replaced with pollinator garden.</p>	
<p>A2.4 Develop strategies to improve public safety measures related to the potential impacts of extreme rain/snow events, extreme heat events, and wildfire and smoke events (E.g., transportation/service disruption, emergency preparedness).</p>	<p>Continued collaboration with the RMOW Communications department on extreme weather and hazards. Updates to RMOW Storms webpage to ensure information is up to date.</p> <p>Heat response plan is focused on emergency situations. Gap identified to communicate to the community during non-emergency events (i.e. heat warning) and how to respond.</p> <p>Plans to work with Vancouver Coastal Health to help identify vulnerable people in the community and establish a communications network to reach this population.</p> <p>Continue to collaborate with the Hotel Association of Whistler on evacuation planning for hotel guests.</p> <p>Continue to communicate with the community and guests about Whistler Alert. E.g. posters with instructions for hotel guests to sign up for Whistler Alert at hotel check-in desks.</p> <p>Misting stations ongoing for key summer locations.</p>	<p>Roads & Drainage / Emergency Planning / Parks & Village Ops</p>
<p>A2.5 Develop strategies to increase the resilience of recreation trails and other outdoor recreation assets to better endure extreme rain/snow events.</p>	<p>Recreation Trail Strategy is working through final development. Conversations are ongoing with Lil'wat Nation and Squamish Nation.</p> <p>X140 CECAP Trail Hardening work ongoing.</p>	<p>Resort Parks Planning / Parks & Village Ops</p>

Rainbow Park reopened, with multiple new climate resilient features (E.g. non-potable water source for irrigation, additional trees, shade sails, improved lake access and grading/landscaping to help withstand flooding and recover from flooding more quickly).



Meadow Park splash pad and playground replacement project advanced to tender ready state. Meadow Park non-potable irrigation well advanced to Provincial permit application stage (submitted April 2024) and design consultant retained.

MPSC usage increase during weather events (cold snap and rain events in January and warm weather in December)

A2.6 Facilitate and promote community economic diversification opportunities as a means to increase Whistler's climate resilience (E.g., cultural tourism development, learning & education opportunities, weather-independent tourism/recreation offerings).

Whistler Sessions Scenarios are integrated into ongoing RMOW corporate initiatives and narrative. Various meetings, communications and engagements continue to feature Whistler Sessions. In partnership with Arts Whistler, a thought provoking and engaging workshop Four Futures: Art Party Engagement Night was held in May where artists showed and spoke about art pieces inspired by the scenarios, and attendees participated in interactive displays contemplating Whistler's future. Whistler Sessions scenarios were also featured in presentations and displays during the Community Conversations: Strategic Priorities community open house event in June. Whistler Sessions Scenarios were also embedded into the Smart Tourism visioning process currently underway with the goal to encourage broad and diverse thinking contemplating potential implications in Whistler's future.

CAO / Economic Development / Parks Planning

Meadow Park Sports Centre ice rink acts as a cooling centre during heat events in the summer. MPSC has seen increased usage during heat events in the summer and poor snow quality events in the winter. Pass sales that have returned to pre-pandemic levels. Specifically saw increased attendance for drop-in sports during poor snow quality events over the winter.

A2.7 Integrate climate change considerations into the corporate asset management system.

Summer student was hired and is collecting stormwater infrastructure asset information. Confirming engineering record drawings are accurate and condition assessment. Next step is to identify culverts for replacement. Stormwater asset replacement design work is ongoing. List of HW 99 culverts for inspection being compiled and will be sent to MOTI for review.





Finance / Climate & Environment



ADAPTATION GOAL 3: Protect, support and increase the resilience of local ecosystems, natural assets and biodiversity

Action Highlights & Milestones

Key Initiative	Milestone / Progress Highlight	Responsible
<p>A3.1 Develop policy, planning and legislative strategies to protect and restore local ecosystem health and support continued provision of natural infrastructure services.</p>	<p>The new Priority Habitat mapping has been completed; waiting for GIS team to load on internal/external GIS maps. Priority Habitat Framework implementation plan is drafted. Next steps include sharing new Priority Habitat mapping with key internal/external partners and completing a land use/ownership analysis of Priority Habitat areas. The PHF and mapping will be presented to Council in fall 2024.</p> <p>Ongoing environmental input on proposed development and rezoning referrals.</p> <p>The internal Tree Working Group (TWIG) continues to work on improvements to tree cutting regulations and processes.</p> <p>The Environmental Protection Bylaw is being revised and a new Tree Bylaw is being drafted, targeting Council adoption of both bylaws by end of 2024.</p> <p>Gaps in the OCP Schedule J (Riparian DPA map) have been flagged for next OCP update, along with improvements to the GIS hydrology layer.</p> <p>Protection of biodiversity, ecosystem health and climate resilience in planning design and construction of parks and trails projects is ongoing for existing and new projects. This is also a key component of the emerging Park and Valley Trail Strategy which was initiated in Q2 2024.</p>	<p> Climate & Environment, Planning</p>
<p>A3.2 Continue to monitor ecosystem health and biodiversity.</p>	<p>2023 Ecosystems & Species Monitoring Report is complete and available on Whistler.ca. Monitoring field work for 2024 is well underway.</p>	<p> Climate & Environment</p>

	<p>Preliminary monitoring results from 2023 (RMOW and CCF tenure) to determine the impacts / effectiveness of wildfire fuel thinning were presented to RMOW staff in 2024. Results showed that fuel thinning lowers the risk of wildfire in treated areas. Monitoring program will continue through to 2025 and future results will be shared once available.</p>	
<p>A3.3 Prevent and minimize the spread of invasive species.</p>	<p>Ongoing implementation of the Invasive Species Management Plan and collaboration with SSISC (supported by the RMOW fee for service agreement). Non-compliance protocol for invasive species is being implemented with improvements as we go.</p> <p>SSISC has provided invasive species content expertise to the draft revision of the Environmental Protection Bylaw, targeting Council adoption of this bylaw by end of 2024.</p> <p>SSISC conducted regular spring "invasive species 101" training for RMOW staff: Resort Operations (landscaping, horticulture, trails), Roads and FireSmart crews.</p> <p>A monitoring site visit of the Emerald Forest was conducted with Resort Operations, Climate & Environment and The Land Conservancy (RE: conservation covenant). Some invasive species were noted in the north gravel pit area; SSISC is following up with treatment/removals in this important conservation area.</p> <p>Resort Operations Manager is a member of SSISC, and this is helping to support increased internal prioritization of invasives mgmt.</p>	 <p>Climate & Environment</p>
<p>A3.4 Manage the Cheakamus Community Forest in a way that prioritizes and supports healthy, biodiverse and climate resilient forests.</p>	<p>CCF has provided RMOW with maps of logging plans for internal GIS to support municipal planning. RMOW plans to share Priority Habitat maps with CCF once available on GIS.</p> <p>CCF continues implementation of Ecosystem Based Management approach to forestry.</p>	<p>Climate & Environment</p>
<p>A3.5 Support environmental integration and education opportunities.</p>	<p>The 2024 Corporate Plan/ 2023 Annual Report featured a one-page update regarding the Climate Action strategic priority. The Community Conversations: Strategic Priorities event and associated materials that occurred in June, coinciding with the Corporate Plan release, also focused on information updates, discussions and engagement for the four strategic priorities including Climate Action.</p>	<p>Climate & Environment, Corporate Planning</p>

4. 2023 RMOW CORPORATE GHG AND ENERGY INVENTORY

Total corporate GHG emissions in 2023 were 2,202 tCO₂e. These emissions are broken down into direct emissions (those controlled by the RMOW) and contracted emissions (those controlled by contractors that the RMOW hires). The RMOW's direct emissions represent 66% of total corporate emissions at 1,444 tCO₂e. This is a 16% decrease from 2022 (1,727 tCO₂e). The decrease in direct emissions is due to a decrease in natural gas consumption at RMOW buildings and facilities. 2023 was warmer on average with an 11% decrease in heating degree days⁵ compared to 2022, indicating that less natural gas was required to heat municipal buildings.

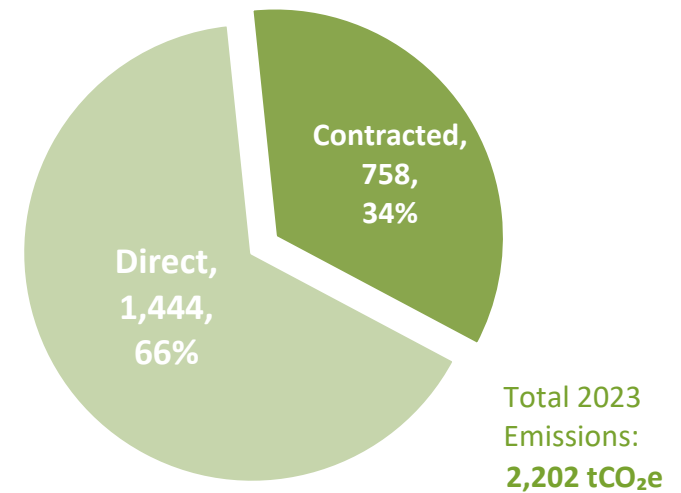
Contracted emissions represent 34% of total corporate emissions at 758 tCO₂e. This is a 3% decrease from 2022 (781 tCO₂e). Contracted emissions are GHG emissions generated by the consumption of fossil fuels in the delivery of municipal services by a third party. Contracted emissions in 2023 did not change significantly when compared to 2022.

The charts below depict RMOW's corporate GHG emissions by service area.

Direct RMOW Corporate GHG Emissions

1. **RMOW Fleet** (includes fuel consumption for RMOW operated fleet vehicles, excluding school buses and RCMP which are captured in community emissions) represents 26% of corporate emissions in 2023, or 563 tCO₂e. This is down 10% when compared to 2022 due to a decrease in diesel consumption. Looking at fleet usage by RMOW division, Infrastructure Services (IS) utilizes fleet vehicles the most. This division includes roads crews, solid waste, water utility, sewer utility and facility construction management operations.
2. **Recreation** (includes natural gas and electricity for Meadow Park Sports Center and Olympic Plaza) represents 18% of corporate emissions in 2023, or 399 tCO₂e. This is a 17% decrease when compared to 2022. This is due to a decrease in natural gas consumption at Meadow Park Sports Center resulting from improved equipment efficiency and fewer heating degree days.
3. **Sewage Management** (includes the operation of the wastewater treatment plant and associated facilities such as pump stations, lift stations etc.) represents 8% of corporate emissions in 2023 or 185 tCO₂e. This is a 35% decrease from 2022, due to a decrease in natural gas consumption at the wastewater treatment plant resulting from fewer heating degree days.

2023 RMOW Corporate GHG Emissions in tCO₂e

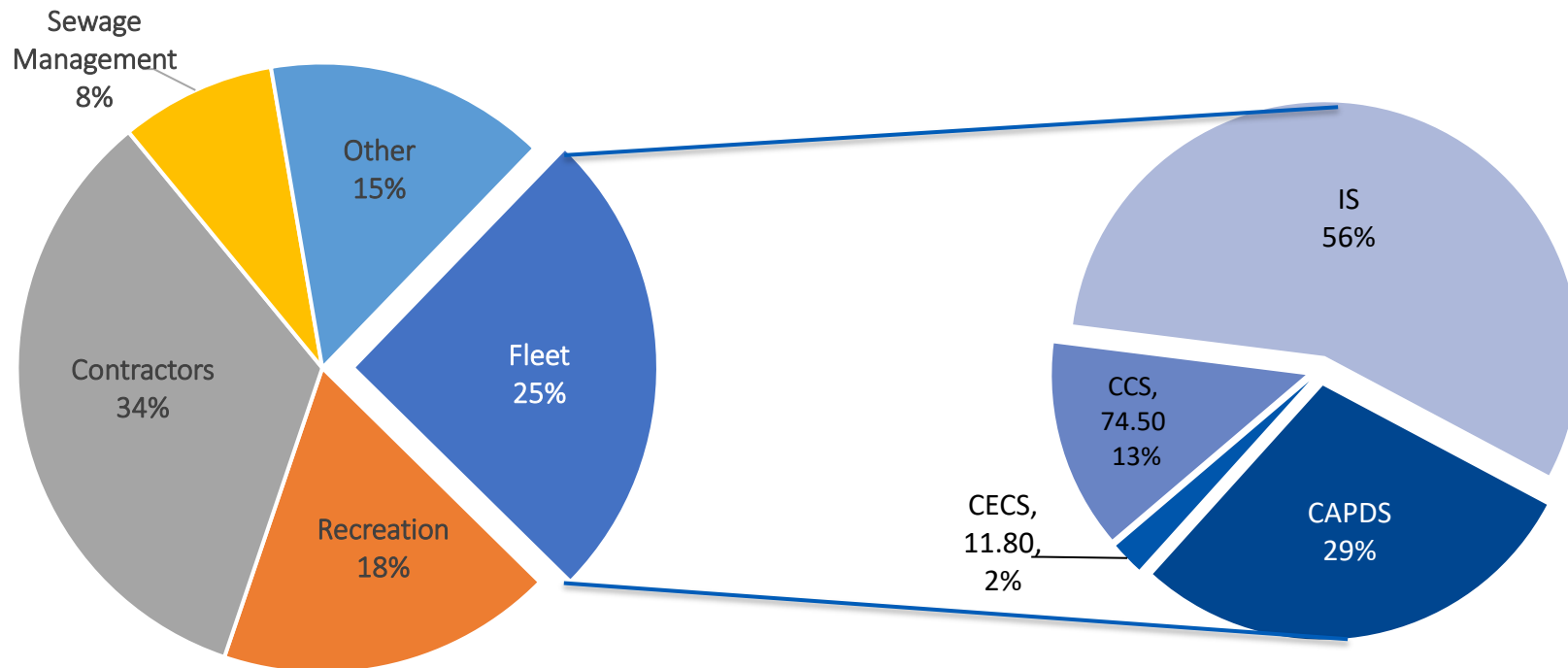


⁵ Heating degree day is the difference between outside temperature and a comfortable interior temperature. This is used to determine energy requirements for heating buildings.

Contracted GHG Emissions

1. **Solid Waste Management** (includes solid waste management transportation) makes up over half of contracted emissions. These emissions are a result of solid waste being transported to the Whistler Transfer Station. Emissions related to solid waste were 376 tCO_{2e} in 2023, which is a 1% increase compared to 2022. This is consistent with the tonnage of waste transported to the Whistler Transfer Station remaining relatively stable year over year.
2. **Other contractors** (includes other contracted traditional services such as operational work related to water, sewer, roads or parks and recreation) represents the other half of contracted emissions. This year, emissions from these contractors decreased by 13% compared to 2022. This is due to the nature of the contracts in 2023, which consumed slightly less fuel than 2022.

2023 RMOW Corporate GHG Emissions in tCO_{2e} by Service Area

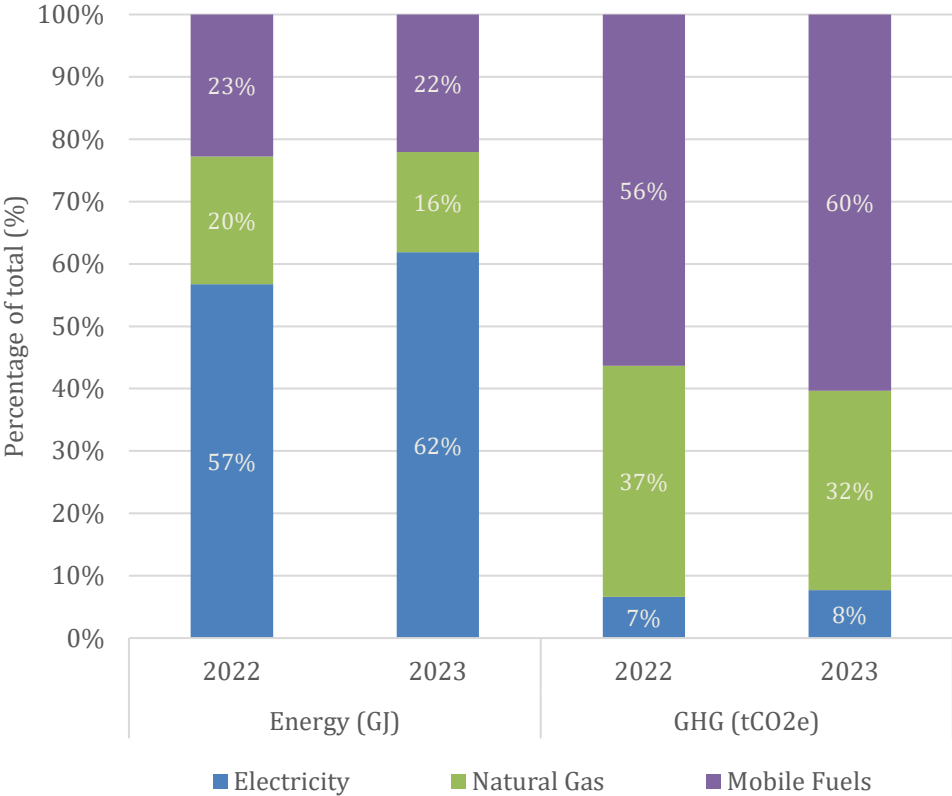


RMOW divisions: IS – Infrastructure Services, CAPDS – Climate Action, Planning and Development Services, CECS – Community Engagement and Cultural Services, CCS – Corporate Services and Public Safety

GHG Emissions by Energy Type

Different energy types contribute to GHG emissions differently, which is determined by an emissions factor. In BC electricity has a very low emissions factor, whereas other fuels such as natural gas and mobile fuels (diesel and gasoline) have much higher emissions factors. The figure to the right shows the percentage distribution of the RMOW energy consumption and related GHG emissions in 2023 compared to 2022. This figure highlights that while electricity makes up 62% of the energy consumed by the RMOW, it only amounts to 8% of our corporate GHG emissions in 2023. However, natural gas which makes up 16% of energy consumed amounts to 32% of corporate GHG emissions in 2023. Mobile fuels make up roughly 20% of energy consumed, which in 2023 represent 60% of total corporate emissions.


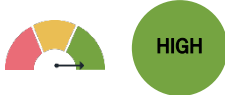



2022 vs 2023 Percentage Distribution of RMOW Energy Consumption and GHG Emissions by Energy Type



5. RMOW CORPORATE GHG REDUCTION PLAN PROGRESS







PATHWAY 1: RMOW FLEET ELECTRIFICATION

Indicators

RMOW Corporate Goal	Indicator	Data Source	Starting point 2023	Annual progress	Target 2030	Likelihood of achieving target
50% below 2007 by 2030	GHG emissions from RMOW fleet transport in tCO ₂ e	Annual Report	563		280	 HIGH
	GHG emissions from RMOW fleet transport relative to annual target in tCO ₂ e	Annual Report	-184		0	 HIGH
	Number of ZEVs in fleet	Fleet Manager	6		110	 MEDIUM
	Percentage of ZEVs in fleet	Fleet Manager	4		66	 MEDIUM
	Difference between number of ZEVs in light duty fleet and ZEV procurement plan	Fleet Manager	-4		0	 HIGH




PATHWAY 2: SEWAGE MANAGEMENT

Indicators

RMOW Corporate Goal	Indicator	Data Source	Starting point 2023	Annual progress	Target 2030	Likelihood of achieving target
50% below 2007 by 2030	Annual natural gas consumption at wastewater treatment plant in GJ	Annual Report	2,652		TBD	 
	GHG emissions from wastewater treatment plant in tCO ₂ e	Annual Report	185		62	 
	GHG emissions from wastewater treatment plant relative to annual target in tCO ₂ e	Annual Report	-254		0	 




PATHWAY 3: RECREATION

Indicators

RMOW Corporate Goal	Indicator	Data Source	Starting point 2023	Annual progress	Target 2030	Likelihood of achieving target
50% below 2007 by 2030	Annual natural gas consumption at Meadow Park Sports Centre in GJ	Annual Report	7,294		TBD	 MEDIUM
	GHG emissions from Meadow Park Sports Centre in tCO ₂ e	Annual Report	481		62	 MEDIUM
	GHG emissions from Meadow Park Sports Centre relative to annual target in tCO ₂ e	Annual Report	60		0	 MEDIUM

PATHWAY 4: CONTRACTED SERVICES

Indicators

RMOW Corporate Goal	Indicator	Data Source	Starting point 2023	Annual progress	Target	Likelihood of achieving target
50% below 2007 by 2030	Percentage of contractors providing fuel data	Annual Report	2		100	
	GHG emissions from contracted services in tCO ₂ e	Annual Report	721		145	
	GHG emissions from contracted services relative to annual target in tCO ₂ e	Annual Report	247		0	

6. APPENDICES

A	Summary of Corporate Carbon Neutral Commitment Verified Emission Reductions (VERs)
B	SUMMARY OF RMOW 2021 TRADITIONAL SERVICES GHG INVENTORY

APPENDIX A: SUMMARY OF 2023 CORPORATE CARBON NEUTRAL COMMITMENT

Verified Emission Reduction (VERs): The RMOW has purchased and retired Verified Emission Reduction credits equal to its entire corporate carbon footprint for every year between 2010 and 2023 inclusive, a summary is provided below:

Year	VERs	Project	Certification Standard	Registry	Vendor
2010	1,145 tonnes	Mare Monastir Wind Farm, Turkey	Gold Standard – project reference: GS368	GS APX Registry	Offsetters Clean Technology Inc.
	1,145 tonnes	Sun Select Aldegrove Biomass Boiler, British Columbia	ISO 14064-3 and CDM additionality tool	Markit Registry	Offsetters Clean Technology Inc.
2011	1,063 tonnes	Mare Monastir Wind Farm, Turkey	Gold Standard – project reference: GS368	Markit Registry	Offsetters Clean Technology Inc.
	1,063 tonnes	Sun Select Aldegrove Biomass Boiler, British Columbia	ISO 14064-3 and CDM additionality tool	Markit Registry	Offsetters Clean Technology Inc.
2012	973 tonnes	Mare Monastir Wind Farm, Turkey	Gold Standard – project reference: GS368	Markit Registry	Offsetters Clean Technology Inc.
	974 tonnes	Sun Select Aldegrove Biomass Boiler, British Columbia	ISO 14064-3 and CDM additionality tool	Markit Registry	Offsetters Clean Technology Inc.
2013	1,617 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2014	1,805 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2015	1,751 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2016	1,810 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2017	2,385 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest

2018	2,177 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2019	2,360 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2020	2,641 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2021	2,257 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2022	2,509 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest
2023	2,202 tonnes	Cheakamus Community Forest, British Columbia	BC Emission Offsets Regulation using the BC Forest Carbon Offset Protocol	Markit Registry	Cheakamus Community Forest

Since 2013 the RMOW has purchased VERs from the Cheakamus Community Forest (CCF) to offset 2013 - 2023 corporate emissions. More information about the project can be found on the Cheakamus Community Forest (CCF) website (<https://www.cheakamuscommunityforest.com/>)

RMOW staff are confident in the benefits of supporting a local offset project, the co-benefits associated with the project approaches, and the independent, third-party rigor that is being applied to the CCF project. Consistent with our commitments in both the UBCM Climate Action Charter, and the RMOW Carbon Neutral Plan, the RMOW remains committed to achieving carbon neutrality with respect to all corporate operations. All RMOW departments have been charged internally for the costs associated with the RMOW carbon neutrality commitments. All departments continue to use the price signals that these costs imply (\$25/tCO₂e) to improve financial decision making and preference cost-effective projects and initiatives that are capable of continuously reducing carbon emissions and decreasing carbon costs across corporate operations. Note that consistent with Provincial policy, the carbon neutral commitment of the RMOW includes an estimate of the contracted emissions associated with ‘traditional services of local government’ (e.g., any contracted snow clearing in the Village, solid waste collection contracts etc.)

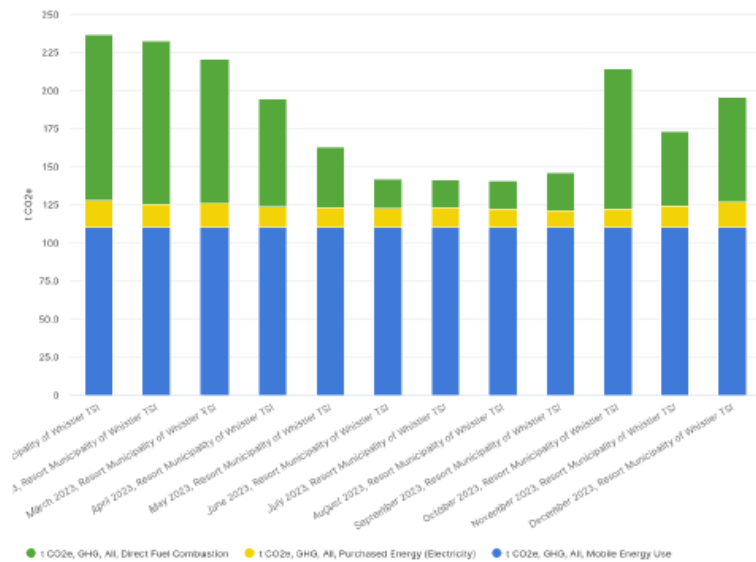
APPENDIX B: SUMMARY OF RMOW 2023 TRADITIONAL SERVICES GHG INVENTORY



2023 BC Traditional Services GHG Inventory

Reporting Entity: Resort Municipality of Whistler
Reporting Year: Calendar Year 2023
Inventory Scope: BC Traditional Services Inventory "TSI"
Quantification Methodology: 2023 B.C. Best Practices Methodology for Quantification GHG Emissions, Local Governments & Public Sector Organizations
System Support: SoFi GHG Reporting by GHG Accounting Services
Data collection: Resort Municipality of Whistler
Data Entry: Data Upload and Manual Entry Client

Total TSI GHG Inventory: **2,202 t CO₂e**



Total Energy Consumption by Energy Type for Traditional Services Inventory:

Resort Municipality of Whistler TSI	
Natural Gas Stationary [GJ]	13,932
Propane [l]	8,257
Electricity [kWh]	14,900,039
Gasoline [l]	129,773
Diesel [l]	379,055
Propane [l]	1,692
Gasoline – Car [l]	8,414

Category 1:

	Resort Municipality of Whistler TSI				
	GJ, Energy	t CO ₂	t CH ₄	t N ₂ O	t CO ₂ e, GHG, Category 1
Direct Fuel Combustion	14,141	709	0.013285	0.013287	712

Category 2:

Resort Municipality of Whistler TSI	
	t CO ₂ e, GHG, Category 2
Purchased Energy (Electricity)	168

Category 3:

	Resort Municipality of Whistler TSI				
	GJ, Energy	t CO ₂	t CH ₄	t N ₂ O	t CO ₂ e, GHG, Category 3
Mobile Energy Use	19,103	1,281	3.07	19.1	1,321

Biogenic GHG Emissions:

Resort Municipality of Whistler TSI			
	t Bio CH ₄	t Bio CO ₂	t Bio CO ₂ e, GHG, All
Direct Fuel Combustion			
Mobile Energy Use		48.5	48.5
Total		48.5	48.5

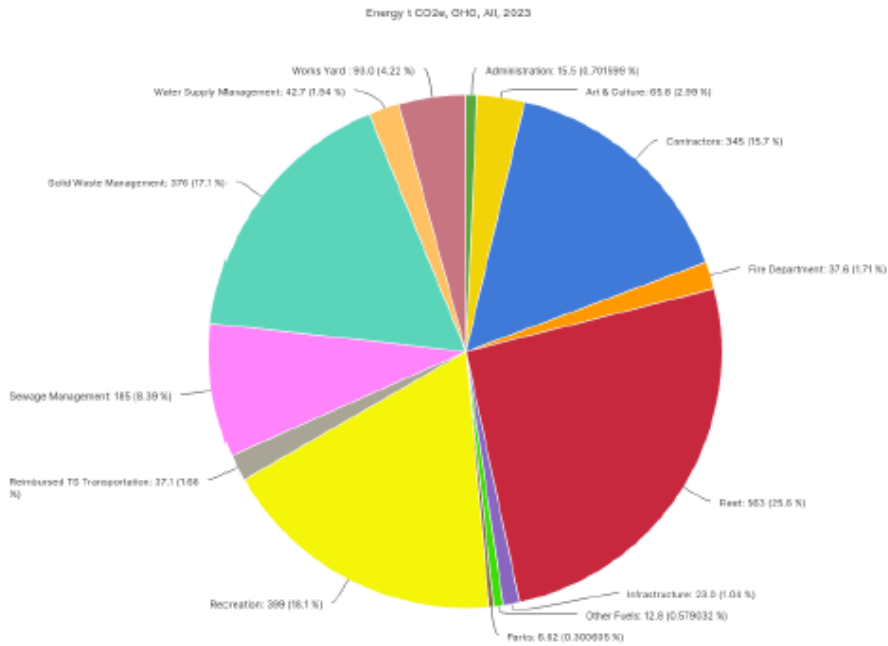
Totals by Service Delivery:

	Delivered Directly	Contracted Services	Total
	Energy Inventory	Energy Inventory	
	t CO ₂ e, GHG, All	t CO ₂ e, GHG, All	
2023	1,444	758	<u>2,202</u>

Summary:

	2023	
	Energy Inventory	Total
	t CO ₂ e, GHG, All	
Resort Municipality of Whistler TSI	2,202	2,202

Overview by Service Areas:



Top GHG Emitters:

	t CO ₂ e, GHG	%
Total Resort Municipality of Whistler TSI	2,202	100
Fleet	563	25.6
Recreation	399	18.1
Solid Waste Management	376	17.1
Contractors	345	15.7