



WHISTLER

REPORT | INFORMATION REPORT TO COUNCIL

PRESENTED: February 18, 2020
FROM: Resort Experience
SUBJECT: COMMUNITY ENERGY AND CLIMATE ACTION PLAN (CECAP) REPORT – Q4 2019

REPORT: 20-017
FILE: A05001

COMMENT/RECOMMENDATION FROM THE CHIEF ADMINISTRATIVE OFFICER

That the recommendation of the General Manager Resort Experience be endorsed.

RECOMMENDATION

That Council receive Information Report No. 20-017 regarding Q4 2019 progress on implementing the 2016 Community Energy and Climate Action Plan.

REFERENCES

Appendix “A” – Community Energy and Climate Action Plan (CECAP) Quarterly Performance Tracking: October – December 2019

PURPOSE OF REPORT

The purpose of this report is to provide an update on the RMOW’s progress implementing the CECAP between October and December 2019.

DISCUSSION

As a resort community dependent on outdoor activities for its economic success and quality of life and its broader responsibility as part of the global community, Whistler is concerned with and taking action on climate change. The RMOW regularly tracks emissions and monitors its progress on actions to mitigate and adapt to climate change.

For a number of years prior to adoption of the CECAP, the RMOW tracked the energy and GHG emissions performance trends for the community as well as the RMOW’s internal corporate operations and reported annually. For example, the 2018 Annual Energy and Emissions Performance Report (<https://www.whistler.ca/sites/default/files/2019/Aug/related/14506/rmow-2018-annual-energy-ghg-emissions-performance-report-final.pdf>) provides background on energy and emissions planning in Whistler, detailed historical information, a review of associated targets for each section, specific detail on 2018 energy consumption and emissions trends at both the community and corporate scale, and insights regarding key drivers of change over time. The Report shows that Whistler is not currently on track to achieve its official 2020 climate targets, and that just two sectors – petroleum use in personal transportation and natural gas use in buildings – account for 90 per cent of Whistler’s GHG emissions. The 2019 report will be completed and shared with Council by July 2020.

As directed by Council, this quarterly report summarizes implementation progress on CECAP actions (https://www.whistler.ca/sites/default/files/related/cecap.0_final.pdf) during the period October 2019 – December 2019. The checklist of actions and their respective status is based on input provided by every department in the RMOW.

Transportation issues continue to be a priority item, with a number of initiatives advanced over the past quarter. Staff participated at several electric mobility events and workshops to advance electrification of the transport sector within Whistler. This included:

- the Climate Change Coordinator participating at the EVS Whistler conference, where he learned about the latest technology and business innovation in the clean transport field;
- the Climate Change Coordinator together with Whistler Blackcomb staff participating at a workshop with other leading local governments to coordinate municipal action to support the province's clean transport strategy; and
- the Central Services Supervisor participating in the West Coast Fleet Managers Symposium to explore how to accelerate the transition to low carbon municipal fleets.

In regards to electric vehicle charging, staff have maintained close contact with Natural Resources Canada to increase the chance of success for the RMOW's funding application for 28 new EV chargers and are optimistic the funding will be awarded. In addition, the EV charger at Municipal Hall was upgraded from a single port charger to a dual-port charger, doubling charging capacity for public and fleet charging at this location. Lastly, in November, Council approved a pilot project to provide free transit to Whistler high school students starting at the beginning of 2020 to help raise the next generation of transit users.

The buildings sector represents the second biggest source of GHG emissions in Whistler, and as such, remains a priority for climate action. In the fourth quarter of 2019, staff advanced a number of important files through internal discussions, research and engagement. This included:

- internal discussions and research on incorporating Energy Step Code to Part 3 buildings (Whistler adopted Energy Step Code for Part 9 buildings in 2019);
- opportunities to limit the direct heating of outdoor spaces; and
- organizing a capacity building workshop for local contractors to gain familiarity with low carbon energy systems, as familiarity with these systems is seen as a major barrier to broader adoption across the province.

In addition, the Climate Change Coordinator advanced discussions with senior staff from several of Whistler's largest hotels to identify opportunities to reduce GHG emissions across Whistler's hotel sector. Whistler Housing Authority passed a major milestone with the completion of 1020 Legacy Way, a 24 unit ultra-efficient Passive house development. Lastly, the RMOW continues to fund the Power Down to Save Up rebate program to encourage home energy assessments, as well as providing matching funding for the province's Better Homes BC energy efficiency incentives program.

Emissions from RMOW corporate operations remain a priority, and saw several initiatives advanced over Q4. Staff received a technical and financial feasibility study to develop solar photovoltaic panels at Meadow Park Sports Centre (MPSC), and reviewed this study in detail. In addition, staff explored external funding opportunities for strategic RMOW corporate initiatives, with several projects identified, including a bio energy project to heat MPSC.

Wildfire risk reduction continues to be a priority focus for adapting Whistler to the changing climate. At the end of Q3 2019, the Kadenwood fuel thinning project was completed, and under the three-year contract awarded to treat priority areas in the Wildland Urban Interface, eight hectares along the western boundary of Lost Lake Park adjacent to Spruce Grove and White Gold were completed with the remaining eight hectares scheduled for spring 2020. The FireSmart program was largely wrapped

up at the start of Q4. At the landscape level, Phase 2 of the Cheakamus Lake Road fuel thinning project started in November with completion anticipated in late spring 2020.

Although work is progressing, many lower priority actions remain unchanged or not initiated. With the introduction of the Climate Change Coordinator, and continued hard work from existing staff, momentum is increasing, particularly on actions related to the priority transportation and buildings sectors.

After reviewing the CECAP and community emissions data within the context of recent BC climate change policy initiatives and actions, the main priority action areas have become clear. The Climate Change Coordinator will focus on accelerating the transition away from fossil fuels by identifying and advancing high impact initiatives in the transportation and buildings sectors, and to engage with key stakeholders and the broader Whistler community to create buy-in for strong action. The Whistler Centre for Sustainability was engaged to assist with developing a strategy that will see the CECAP reorganized to prioritize the “big moves”, and connect with the community at a variety of opportunities moving forward.

See Appendix “A” for a complete listing of all CECAP Q4 actions, current status and comments.

WHISTLER 2020 ANALYSIS

| W2020 Strategy | TOWARD Descriptions of success that resolution moves us toward | Comments |
|---------------------------|--|--|
| Energy | Residents, businesses and visitors understand energy issues | The report supports and increases local knowledge (resident and business) of Whistler’s progress in implementing CECAP’s climate mitigation and adaptation measures. |
| Built Environment | Limits to growth are understood and respected | The report contributes to the discussion about ‘limits to growth’ through the inclusion of detail related to our Council-adopted targets and in particular, Whistler’s performance relative to these energy and emission targets (limits) over time. |
| Natural Areas | Natural systems guide management approaches | The report provides details on Whistler’s progress in implementing measures that will better position Whistler to meet the challenges of a changing climate, reduce community dependence on fossil fuels, and decrease collective energy-related expenditures. |
| Visitor Experience | The visitor experience is based on practices and systems that efficiently use sustainable materials and energy | The report evaluates our progress on climate mitigation measures that are increasing our community’s resilience to potential impacts of a changing local climate while supporting Whistler’s tourism-based economy. |

The compilation and dissemination of the attached report does not move our community away from any of the adopted Whistler2020 Descriptions of Success

OTHER POLICY CONSIDERATIONS

Whistler’s CECAP commits to regular public reporting on progress. Quarterly reporting was adopted in 2018 with four quarterly reports (including this current report) completed over the past year. As was done in 2019, the Q2 report will continue to be combined with the annual Energy Consumption and GHG Performance Trends report to avoid duplication.

CECAP aligns with the OCP, Whistler corporate and community energy and climate targets, and other energy-related municipal policy.

BUDGET CONSIDERATIONS

The tracking and reporting of CECAP actions on a quarterly basis does not have direct budget implications beyond the dedication of staff time.

COMMUNITY ENGAGEMENT AND CONSULTATION

CECAP reports are posted on whistler.ca for public access and review, and will be used as a reference document in community engagement. Moving forward based on Whistler emission monitoring data, staff is planning to prioritize the most high impact CECAP actions in alignment with the BC Climate Leaders' Playbook (<https://bcclimateleaders.ca/>) to more effectively act on the RMOW's climate commitment, and is working closely with the Whistler Centre for Sustainability to plan and deliver community and stakeholder outreach around this effort.

SUMMARY

The RMOW continues to advance many of the priority CECAP actions and to liaise with other community and provincial stakeholders involved in emissions reduction and climate change adaptation. As highlighted in recent international reports and global meetings, it is imperative that we all take action to reduce our impacts on climate.

Respectfully submitted,

Maximilian Kniewasser
CLIMATE CHANGE COORDINATOR

for

Jan Jansen
GENERAL MANAGER OF RESORT EXPERIENCE

CECAP QUARTERLY UPDATE: October - December 2019

| ACTION # | RECOMMENDED ACTION | TIMING | Progress since last update | Action Status | Q4 Update |
|---|--|--------|----------------------------|---------------|---|
| MITIGATION | | | | | |
| 6.1 Mobile Energy Use – Transportation-based GHG Emissions | | | | | |
| 6.1.1 Design Land Use for Location Efficient Living, Working and Playing | | | | | |
| 6.1.1.1 | Continued commitment to ensuring that Whistler is made up of increasingly complete and compact neighbourhoods. | Short | Yes | Ongoing | <ul style="list-style-type: none"> • Commitment to complete and compact neighbourhoods is still in place. • OCP received 3rd reading July 23, 2019 • Significant progress on WHA housing in Cheakamus, delivering compact community development in energy efficient housing, linked to transit. <ul style="list-style-type: none"> • 1020 Legacy Way - Passive House Building with 24 units, tenants moved in in November. Adjacent to transit. • 3850 Bear Paw Trail, Rainbow: 20 Seniors units located adjacent to transit. • 1330 Cloudburst Drive: 45 units BC Step Code 3. Broke ground in Q3, to be completed in 2021, connected to transit. |
| 6.1.1.2 | Investigate raising the target for the number of employees, especially full-time employees, living locally (i.e. > than the current 75%) | Short | Unchanged | Not Initiated | |

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| 6.1.1.3 | Adhere to the Whistler Urban Development Containment Area (WUDCA) as a means of reducing automobile trip | Short | Unchanged | Ongoing | • OCP received 3rd reading July 23, 2019 |
| 6.1.1.4 | Ensure that whenever possible, new development or significant redevelopment is concentrated in existing neighbourhoods or settled areas that are well-served by transit, pedestrian and cycling | Short | Unchanged | In Progress | |
| 6.1.1.5 | Explore opportunities to expand live-work use designations within existing zones where this inclusion would not have adverse impacts on | Short | Unchanged | In Progress | |
| 6.1.1.6 | Proposals for significant new development or redevelopment should be required to quantify future GHG emissions and energy consumption impacts (including transportation-based) and incorporate measures to minimize and/or mitigate projected | Short | Unchanged | Ongoing | |
| 6.1.2 Advance Local and Regional Mass Transportation Service | | | | | |
| 6.1.2.1 | Work with regional passenger carriers and provincial regulatory bodies to encourage greater frequency and more affordable choices for regional bus travel | Short | Unchanged | Ongoing | RMOW staff invited to participate in a meeting in 2020 Q1 organized by the Chamber of Commerce with Private Carriers. |
| 6.1.2.2 | Support the expansion, promotion and increased convenience of mass transportation services between Vancouver and Whistler | Short | Unchanged | Ongoing | RMOW staff invited to participate in a meeting in 2020 Q1 organized by the Chamber of Commerce with Private Carriers. |

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| 6.1.2.3 | Develop a public realm with improved multi-modal integration and comfortable, convenient transition areas – Bus Loop/taxi loop | Short | Unchanged | Complete | |
| 6.1.2.4 | Advance a community-based social marketing research project to determine the key perceived barriers and benefits of increased use of mass transit transportation. Based on the associated results, develop and execute targeted community-based social marketing | Short | Yes | In Progress | Developed and launched a Winter Social media and traditional media campaign promoting family travel on the Whistler Transit System to get the ski hill. Planning spring/summer social media campaign informing of tips to reduce GHG emissions, including using transit and carpooling. |
| 6.1.2.5 | Advance all potential opportunities to avoid increases in local transit fares. | Short | Yes | Ongoing | <ul style="list-style-type: none"> • Pilot project to extend free transit to high school students announced in Q4 2019. Program set to commence in 2020. • Monthly pass rates remain at the reduced price. |
| 6.1.2.6 | Continue to pass the infrastructure, maintenance, congestion, environmental and land costs of road and | Med | Unchanged | In Progress | <ul style="list-style-type: none"> • User pay parking in high-demand areas in Whistler Village continues. • Price change December 1, 2019 for monthly parking in Day Lots 1-3 with net revenue to offset costs for High school Transit Pass Pilot Project. |
| 6.1.2.7 | Optimize the road network and highway to prioritize the flow of high occupancy vehicles | Med | Unchanged | In Progress | Received revised final draft of Highway Capacity Study from MOTI. |
| 6.1.2.8 | Strategically expand transit system service levels and frequency where possible and affordable | Med | Yes | Ongoing | <ul style="list-style-type: none"> • Winter 2019/2020 expansion effective December 7, 2019. • Next expansion effective April 1, 2020. • Preparing request for expansion hours and vehicles effective April 1, 2021. |
| 6.1.2.9 | Explore and consider opportunities to link Whistler Blackcomb and other local business products with (discounted) local and | Med | Unchanged | Not Initiated | |

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| 6.1.2.10 | Continue to encourage the provincial government and private sector to pursue the return of higher-volume, affordable and more frequent passenger rail | Long | Unchanged | Not Initiated | <ul style="list-style-type: none"> • Current focus on regional bus/coach transit |
| 6.1.2.11 | Ensure that any potential investigation into new regional air service or a new airport facility includes a full assessment of the GHG emissions balance of the | Long | Unchanged | Not Initiated | <ul style="list-style-type: none"> • No new regional air services are proposed at this time |
| 6.1.3 Activate Walking, Biking and other Forms of Healthy Transportation | | | | | |
| 6.1.3.1 | Prioritize the recommendations of and regularly update the Whistler Transportation Cycling Plan and the Whistler Recreational Cycling Plan in planning for the pedestrian and bicycle network. | Short | Yes | | |
| 6.1.3.2 | Consider opportunities to permit the repurposing of existing village parking to other purposes to support preferred modes of transportation (i.e. bike | Short | Yes | In Progress | <ul style="list-style-type: none"> • Planning for expansion of Bike Valet Services for spring/summer 2020 |
| 6.1.3.3 | Advance a community-based social marketing research project to determine the key perceived barriers and benefits of increased use of active transportation. Built upon the findings of the research, develop and execute targeted community-based social marketing campaign and | Short | Yes | In Progress | Planning for Maytober Challenge 2020 to encourage residents and visitors to take tangible steps to reduce emissions. |
| 6.1.3.4 | Where opportunities exist, prioritize the optimization and enhancement of pedestrian infrastructure and safety throughout the community | Med | Yes | In Progress | Grant applications considered to access funding to improve pedestrian safety at key locations along Valley Trail network. |

6.1.4 Support Electrification, and the Adoption of other Low Carbon Transport Options

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| 6.1.4.1 | Support the development of, and increased access to, reduced-carbon mobile fuel options such as natural gas, appropriate biofuels, and electrical charging stations across the community. | Short | Yes | In Progress | <ul style="list-style-type: none"> - Ongoing engagement with NRCan on grant application for 28 EV chargers - Climate Change Coordinator collaborating with BC Hydro and other local governments for collective problem solving to accelerate transport electrification - Engagement with BC Government to broaden municipal top ups for energy efficiency incentives to include home and office EV chargers (currently program is limited to building energy use) - Climate Change Coordinator part of a research group to accelerate electrification of medium- and heavy-duty fleets. - RMOW fleet manager participated at the BC West Coast Electric Fleet Symposium • Whistler Transit System received 2 expansion CNG vehicles |
| 6.1.4.2 | RMOW to aggressively advance the average fleet GHG and energy efficiency of the municipal vehicle fleet. | Short | Yes | Ongoing | <ul style="list-style-type: none"> - RMOW fleet manager participated at the BC West Coast Electric Fleet Symposium |
| 6.1.4.3 | Champion and support inter-community travel providers (including airlines) that are progressive leaders in energy and GHG innovation through preferred marketing | Short | Unchanged | Not Initiated | <ul style="list-style-type: none"> • No specific initiative led by RMOW staff at this time |

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| 6.1.4.4 | Integrate electric vehicles into existing private and public fleets (transit/delivery/taxis/shuttles) | Med | Yes | In Progress | <ul style="list-style-type: none"> - Climate Change Coordinator attended leading EV and sustainable transport conference, learning much about new business models to accelerate electrification of private and public fleets. - Internal discussions on what fleets to best engage with new business model ideas |
| 6.1.4.5 | Support the use of 'appropriate' electric assist bicycles on Whistler's roads, and Valley Trail network, and support appropriate opportunities to increase secure storage and | Med | Yes | In Progress | <ul style="list-style-type: none"> • Whistler Bike Valet service for 2020 will target ebikes. |
| 6.1.4.6 | Explore opportunities to structure local incentives to support electric vehicle use within and to/from Whistler. (i.e. preferred or reduced parking fees for electric vehicles) | Med | Yes | In Progress | <ul style="list-style-type: none"> - Climate Change Coordinator and WB staffer attended a workshop with province and other leading LGs on how to support the province's clean transport strategy. - internal planning and discussion on the way to further advance incentives beyond EV chargers to EV drivers. - Staff currently studying how to accelerate EV charger uptake in MURBs (seen as a key barrier to EF infrastructure deployment). |
| 6.1.4.7 | Profile ultra-low emission private vehicle fleets (hotels, commercial recreation, as appropriate). | Med | Yes | In Progress | Internal staff planning underway to organize trip for Whistler fleet operators to visit a leading operator of an electric bus fleet. Electric bus delivery delayed has delayed the original timeline. RMOW staff waiting for appropriate time. |
| 6.1.4.8 | Increase the enforcement of the Whistler anti-idling bylaw. | Med | Unchanged | Complete | <ul style="list-style-type: none"> • Bylaw department is now fully staffed, making it more possible to enforce this bylaw. |

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| 6.1.4.9 | Invest in electric vehicle integration across municipal fleet | Med | Yes | In Progress | <ul style="list-style-type: none"> - EV charger at Municipal Hall updated from single charger to advanced dual-port charger, doubling charging capacity at Municipal Hall - RMOW fleet manager participated at the BC West Coast Electric Fleet Symposium - EV charger |
| 6.1.4.10 | Encourage local commercial recreation and leisure operators to minimize the GHG emissions associated | Med | Unchanged | In Progress | |
| 6.1.4.11 | Develop a social marketing initiative to drive the use and purchase of more efficient vehicles. | Long | Yes | In Progress | <ul style="list-style-type: none"> - Internal RMOW staff work underway for a social media campaign on educating on benefits and incentive programs of more efficient and low carbon technologies, including EVs. Campaign to launch in early 2020. |
| 6.1.4.12 | Explore opportunities to effectively support and encourage the development of a new car coop/sharing program in Whistler, in addition to promoting | Long | Unchanged | Ongoing | <ul style="list-style-type: none"> • Car pool parking pass for Day Lots 4-5 still available and a more cost effective option, encouraging car pooling. - Car pooling part of social media outreach campaign on steps locals can take to reduce emissions. |
| 6.2 Stationary Energy Use – Buildings & Infrastructure GHG Emissions | | | | | |
| Existing Residential Buildings | | | | | |
| 6.2.1.1 | Continue to support and enhance the social marketing campaign to increase uptake of enhanced incentive programs and associated energy efficiency performance improvements. | Short | Yes | In Progress | <ul style="list-style-type: none"> - Staff is collaborating with the province to broaden the municipal top up incentive program for home and MURB EV chargers. • Increased benefits are shared on website, e-mails, and part of an upcoming social media outreach campaign (as mentioned in 6.1.4.11) |
| 6.2.1.2 | Support and encourage Energuide energy labeling on homes for sale | Short | Unchanged | In Progress | <ul style="list-style-type: none"> • Regular promotion of EfficiencyBC incentives through social media, newsletter, website and poster/ word of mouth at the Building Department • Poster for EfficiencyBC updated to reflect increased rebate offer. • Power Down to Save up continues to offer rebates for home energy assessment |

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| 6.2.1.3 | Expand the integration of climate change, energy efficiency and water conservation literacy into school programs and curriculum. | Short | Yes | In Progress | - Environmental Stewardship department is financially supporting a local ENGO workshop that engages high school students on climate issues. |
| 6.2.1.4 | Profile a deep energy retrofit as an example of what can be done to promote energy efficient retrofits in existing homes | Short | Yes | In Progress | <ul style="list-style-type: none"> • Internal discussions underway on engaging builders on energy efficiency projects in homes. One focus will be on profiling a successful installation of a heat pump, as training on heat pump installation currently appears to be a barrier for broad adoption. |
| 6.2.1.5 | Continue to optimize performance outcomes of the Cheakamus Crossing DES and apply learning to future projects | Short | Yes | Ongoing | New information from the consultant was recently received regarding an update to the DES rate structure and confirmation of the current capacity of the system. |
| 6.2.1.6 | Advance opportunities to reduce the direct heating of outdoor areas (i.e. heated driveways, heated stairs, patio heaters, outdoor gas | Long | Unchanged | In Progress | - Internal discussions on the way on how to limit various forms of outdoor heating. Currently studying the issue, RMOW tools to address this, and how to engage key stakeholders |
| 6.2.1.7 | Encourage existing multi-tenant or multi-owner residential buildings to maintain or add individually metered energy consumption for individual properties (i.e. | Long | Yes | In Progress | <ul style="list-style-type: none"> • Climate Change Coordinator has engaged with electric vehicle advocacy groups to advance "Right to Charge" rules to enable MURBs to enable EV charging. This may require sub-metering for parking spaces. |
| Existing Commercial Buildings and Infrastructure | | | | | |
| 6.2.1.8 | Actively investigate the development of new district energy system for Whistler Village that increases energy efficiency, increases the share of energy production from renewable sources, | Short | Unchanged | Not Initiated | <ul style="list-style-type: none"> • No specific initiative led by RMOW staff at this time |

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| 6.2.1.9 | Develop and implement a social marketing campaign with incentives to increase audits, uptake of incentive programs and associated energy | Short | Yes | In Progress | Social media campaign being developed to inform of accessible steps residents can take to lower GHG emissions, including accessing the provincial and RMOW efficiency and audit incentives. |
| 6.2.1.10 | Support and improve staff training on energy efficiency practices across hotel operations (start-up practices etc....) | Short | Yes | In Progress | - RMOW staff have reached out to senior managers of large hotels in Whistler to identify opportunities to deploy low carbon energy systems, encourage learning from leading buildings in Whistler, and to explore the branding potential of taking strong collective action on GHGs. |
| 6.2.1.11 | Advance a system of voluntary and mandatory energy benchmark reporting across Whistler's large energy consumers (leverage NRCAN Portfolio Manager updates into Canada). | Short | Yes | In Progress | - RMOW staff have reached out to senior managers of large hotels in Whistler to identify opportunities to deploy low carbon energy systems, encourage learning from leading buildings in Whistler, and to explore the branding potential of taking strong collective action on GHGs. -options identified include allowing hotels benchmark against the sector's overall performance. |
| 6.2.1.12 | Promote increased awareness of Energy Performance Contracting and other energy efficiency | Short | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.2.1.13 | Support the reestablishment of the former Whistler Facility Managers Association (WFMA) | Short | Yes | In Progress | - RMOW staff have reached out to senior managers of large hotels in Whistler to identify opportunities to deploy low carbon energy systems, encourage learning from leading buildings in Whistler, and to explore the branding potential of taking strong collective action on GHGs. -options identified include allowing hotels benchmark against the sector's overall performance. |
| 6.2.1.14 | Encourage approaches that reduce the direct heating of outdoor areas such as through open shop doors, patio heaters and heated driveways (i.e. explore the potential to create and enforce a closed | Med | Unchanged | In Progress | - Internal discussions on the way on how to limit various forms of outdoor heating. Currently studying the issue, RMOW tools to address this, and how to engage key stakeholders |

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| 6.2.1.15 | Encourage existing multi-tenant or multi-owner commercial buildings to maintain or add individually metered energy use (i.e. | Med | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.2.1.16 | Catalogue and develop strategies for maximizing the re-use of waste heat resources across the resort community. | Med | Yes | In Progress | • Internal staff discussions underway on using heat from wastewater treatment plant more effectively. The wastewater treatment plant is currently the largest user of NG in the RMOW corporate fleet, primarily for heating. |

6.2.2 Ensure the Most Energy Efficient and Comfortable New Buildings and Infrastructure as Possible

New Residential Buildings

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| 6.2.2.1 | Support the trades, sub-trades, developers and building community with programs and initiatives designed to increase the uptake of energy efficient residential building designs, programs and technologies in Whistler. | Short | Yes | In Progress | - Staff is exploring holding a workshop on heat pump installation for Part 3 and Part 9 buildings. This includes hiring a leading engineering consultancy specializing in low carbon energy systems to identify how to best choose and install a heat pump system for Whistler's climate. |
| 6.2.2.2 | Streamline the development of passive house-certified, and net-zero residential buildings using tools such as accelerated permit processing. | Short | Unchanged | Ongoing | • Building Department focussed on the successful roll out of Energy Step Code (Part 9) and for implementation of Energy Step Code for Part 3 |
| 6.2.2.3 | Explore the feasibility for requiring energy modeling for new residential buildings and significant renovations at building permit phase. | Med | Unchanged | In Progress | • Energy Step code in place, which requires energy modelling for new residential construction (Part 9). |

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| 6.2.2.4 | Maintain and update the RMOW Green Building Policy to require higher energy performance standards during rezoning for new residential buildings | Long | Yes | In Progress | - As of early 2019, rezoning for Part 9 to allow for full basement excluded from square footage requires Energy Step Code Level 4. |
| 6.2.2.5 | Encourage new multi-tenant or multi-owner residential buildings to have individually metered energy use (i.e. | Long | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| Existing Commercial Buildings and Infrastructure | | | | | |
| 6.2.2.6 | Designate Whistler Village as a District Energy Investigation Area to encourage flexible building systems | Short | Unchanged | In Progress | • OCP received 3rd reading July 23, 2019 |
| 6.2.2.7 | Streamline the development of certified high-performance commercial buildings and/or significant renovations using tools such as accelerated permit processing. | Short | Yes | In Progress | Internal planning under way to advance & implement Energy Step Code for Part 3 buildings in 2020. |
| 6.2.2.8 | Explore the feasibility of requiring energy modeling for new commercial buildings and significant renovations at building permit phase. | Med | Yes | In Progress | - Energy Step Code for Part 3 buildings planned for 2020. All levels of the Energy Step Code require energy modelling. |
| 6.2.2.9 | Support the trades, sub-trades, developers and building community with programs and initiatives designed to increase the uptake of energy efficient commercial building designs, | Med | Yes | In Progress | - Staff is exploring holding a workshop on heat pump installation for Part 3 and Part 9 buildings. This includes hiring a leading engineering consultancy specializing in low carbon energy systems to identify how to best choose and install a heat pump system for Whistler's climate. |
| 6.2.2.10 | Maintain and update the RMOW Green Building Policy to modernize the framework and ensure that opportunities to increase energy performance outcomes are identified and leveraged during permit approval and rezoning | Long | Unchanged | In Progress | Integration of Energy Step Code for Part 3 buildings will be coordinated with forthcoming updates to the RMOW Green Building Policy |

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| 6.2.2.11 | Encourage new multi-tenant or multi-owner commercial buildings to have individually metered energy use (i.e. | Long | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.3 Renewable Energy and Energy Supply Alternatives | | | | | |
| 6.3.1.1 | Encourage the use and fair commodity pricing of 'renewable' natural gas. | Short | Yes | In Progress | - RMOW staff in touch with Fortis to be a priority customer for upcoming new RNG supply (RNG program currently fully allocated). |
| 6.3.1.2 | Investigate and advance opportunities to incent electric heat pump systems to replace existing gas/propane/basic electric heating systems | Short | Yes | In Progress | <ul style="list-style-type: none"> • Heat pump conversion incentive increased from \$4,000 to up to \$6,000, in collaboration with Province of BC as part of EfficiencyBC • Incentive broadened to include \$2,000 incentive rebate for electric heat pump hot water tanks. |
| 6.3.1.3 | Evaluate the potential for including support for local renewable energy installations within future energy and/or climate related community-based social marketing | Short | Yes | In Progress | - RMOW received solar PV feasibility study for MPSC. Economics are challenging. |
| 6.3.1.4 | Support provincial building code extensions and other tools that maximize the extent that local building regulation can require or support renewable energy | Short | Unchanged | In Progress | • Whistler's leadership on Energy Step Code is helping broader adoption across BC through setting an important and visible example. |
| 6.3.1.5 | Develop a Renewable Energy Strategy to move Whistler toward the new 100% renewable energy | Med | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.3.1.6 | Undertake a research study to evaluate the best opportunities for developing and expanding renewable energy production in Whistler. | Med | Yes | In Progress | - Identified biomass heating for MPSC as a potential candidate for pilot project financing with a federal agency. |
| 6.3.1.7 | Develop and/or expand renewable energy pilot installations on appropriate municipal buildings and facilities. | Med | Yes | In Progress | <ul style="list-style-type: none"> - RMOW received solar PV feasibility study for MPSC. Economics are challenging. - Identified biomass heating for MPSC as a potential candidate for pilot project financing with a federal agency. |
| Encourage the Addition of Responsible, Regional Renewables | | | | | |

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| 6.3.2.1 | Support local and regional renewable electricity production opportunities that include a careful assessment of potential negative impacts on ecosystem | Short | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.3.2.2 | Partner with utilities to provide feedback on the Integrated Resource Plans, and advocate for the inclusion of | Med | Unchanged | Not Initiated | • No current IRP engagement at present (on mailing list) |
| 6.4 Solid Waste System-based GHG Emissions | | | | | |
| 6.4.1 Materials Minimization and Diversion | | | | | |
| 6.4.1.1 | Support the implementation of a strong SLRD Solid Waste Management Plan - with strong targets and actions, regional collaboration, and | Short | Unchanged | Ongoing | |
| 6.4.1.2 | Support the expansion of local compost diversion programs (marketing, education, pricing, | Short | Yes | Ongoing | New solid waste technician expected to start work in late January. |
| 6.4.1.3 | Evaluate opportunities to require new development or significant redevelopment to incorporate meaningful measures to minimize solid waste during design and construction, deconstruct rather than demolish, and | Short | Unchanged | Not Initiated | •No specific initiative led by RMOW staff at this time |
| 6.4.1.4 | Continue moving towards the Zero Waste goal endorsed in 2005 and update the municipal solid waste strategy to advance zero- | Med | Yes | In Progress | Second meeting of Zero Waste Committee expected in Q1 2020. |
| 6.4.1.5 | Support and promote the increased use of the Sustainable Events Guide and monitor performance outcomes for all key events. | Med | Unchanged | In Progress | |

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| 6.4.1.6 | Evaluate and support implementation of efficient and convenient methods of collecting solid waste, recyclables and compost for people utilizing preferred | Med | Unchanged | Complete | |
| 6.4.1.7 | Encourage the private sector to develop and/or participate in innovative, cost-effective and environmentally sustainable solid waste and recycling programs | Med | Yes | Ongoing | New solid waste technician expected to start work in late January. |
| 6.4.1.8 | Implement standardized SLRD signage across Whistler to improve recycling and composting rates. | Med | Unchanged | Ongoing | |
| 6.4.2 Reduce Upstream Emissions from Goods and Services | | | | | |
| 6.4.2.1 | Support the creation of a 'sharing economy' working group to explore the best opportunities for sharing locally available skills and equipment as a means of increasing affordability, reducing new consumption and | Short | Unchanged | Ongoing | |
| 6.4.2.2 | Encourage the use of the Re-Build-It Centre and Re-Use it Centre for the reuse of building materials, products and | Short | Unchanged | Complete | |
| 6.4.2.3 | Promote opportunities for education and learning related to food production and associated GHG and environmental impacts. | Short | Unchanged | In Progress | |
| 6.4.2.4 | Promote and facilitate opportunities to shorten food supply chains and that support less GHG intensive food growing and menu choices. | Short | Unchanged | In Progress | |
| 6.5 Enabling Energy Reduction and Climate Change Mitigation | | | | | |
| 6.5.1 Ensure Adequate Governance and Funding for ongoing Climate Action progress | | | | | |

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| 6.5.1.1 | Create a 'Climate Leadership Committee' as a standing committee of Council | Short | Yes | In Progress | - Internal planning underway to create a climate advisory group. This planning is in part to prioritize highest impact actions in CECAP. |
| 6.5.1.2 | Investigate and advance opportunities to fund expanded local energy efficiency incentive programs with the annual RMOW corporate carbon tax rebate (CARIP). | Short | Yes | In Progress | <ul style="list-style-type: none"> • Heat pump incentive increased to up to \$6,000. Program broadened to include switching to heat-pump hot water heaters. • Matching funding to NRCan EV infrastructure grant partially paid for by CARIP (EV travel is a major energy efficiency initiative, switching from 15-20% efficient combustion engines to 90-95% efficient electric motors. |
| 6.5.1.3 | Create a Climate Action Coordinator position on municipal staff to lead the coordination and implementation of this CECAP and related energy and climate management | Short | Yes | Complete | Climate Change Coordinator is advancing CECAP measures in coordination with other staff and stakeholders. |
| 6.5.1.4 | Review and consider the implementation of a FortisBC franchise fee and dedicate the incremental funds to EE | Short | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |
| 6.5.1.5 | Consider use of cash-in-lieu parking fees for improvement of pedestrian, cycling, and | Short | Yes | Ongoing | • Considered as an option in the Glacier 8 project for the variance of required 52 parking stalls. |
| 6.5.2 Actively Work With Other Levels of Government to Advance Shared Climate Goals | | | | | |
| 6.5.2.1 | Lobby the Provincial government for further systematic increases in the BC Carbon Tax, and for a shift toward VKT-based car insurance structures (vehicle- | Short | Yes | Ongoing | • Support for carbon pricing planned for upcoming community engagement campaign. |
| 6.5.2.2 | Lobby the Provincial government for further systematic improvements to the BC Building Code that focus on building envelopes and energy efficiency. | Short | Yes | In Progress | - Climate Change Coordinator collaborating with other local governments to give LGs more direct control over GHG emissions at the building and lot level. |
| 6.5.2.3 | Lobby senior governments to encourage increased energy and GHG innovation in the | Short | Unchanged | Not Initiated | • No specific initiative led by RMOW staff at this time |

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| 6.5.2.4 | Increase collaboration with neighbouring S2S communities and the SLRD on climate-related issues. | Short | Unchanged | In Progress | Squamish is hiring a Climate Change Manager. The RMOW's Climate Change Coordinator will work closely with the new dedicated Squamish staffer to advance regional climate and clean energy initiatives. |
| 6.5.2.5 | Work with other groups and jurisdictions (i.e. BC Mayors Climate Leadership Council, City of Vancouver and other leading communities) toward advancing Whistler's 100% renewable energy goals. | Med | Yes | In Progress | - Whistler's 100% renewable energy goal was identified as a topic of discussion in forthcoming stakeholder and community engagement, including for planned internal advisory group that helps prioritize the highest impact CECAP actions. |
| 6.5.3 Support High Quality, Third-Party Verified Local Offset Products | | | | | |
| 6.5.3.1 | Encourage local organizations to support local carbon reduction projects like the Cheakamus Community Forest offset project. | Short | Unchanged | In Progress | RMOW purchased 2018 carbon offsets in Q4 2019. CCF is in final stages of registering 2014-2018 tranche of carbon offsets at which time CCF will do outreach to other organizations to purchase. |
| 6.5.3.2 | Encourage local accommodation providers and booking companies to provide options for purchasing | Short | Yes | In Progress | This was discussed in engagement between the Climate Change Coordinator and senior staff from several of Whistler's largest hotels |
| 6.5.3.3 | Continue to meet municipal carbon neutral commitments through the purchase of locally and regionally sourced high quality, externally verified offset products (i.e.. Cheakamus Community Forest) | Short | Yes | Ongoing | - RMOW completed offset purchase for RMOW corporate and contractor based emissions for 2018 in Q4 |
| ADAPTATION | | | | | |
| 8.5.1 Minimize Wildfire Threats | | | | | |

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| 8.5.1.1 | Continue to implement the Community Wildfire Protection Plan, including emphasis on public education and engagement. | Short | Yes | Ongoing | Alpine Axeceleration completed 8 hectares of thinning at Spruce Grove in autumn 2019. CCF began work on next section of Cheakamus Lake Road fuel break. |
| 8.5.1.2 | Prioritize the implementation of the landscape-level wildfire management plan for the Cheakamus Community Forest area. | Short | Unchanged | Ongoing | Work on Cheakamus Lake Road phase II fuel thinning was begun. Discussions held with FLNRO regarding RMOW's opportunity with the new Wildfire Risk Reduction program. Priority projects to be submitted in January 2020. |
| 8.5.1.3 | Increase municipal and collaborative efforts around wildfire prevention with key corridor partners (i.e. MFLNRO, Sea to Sky fire rescue services, SLRD, Vancouver Coastal Health). | Short | Unchanged | Ongoing | The RMOW continues to engage with relevant corridor partners and provincial agencies on wildfire risk reduction. |
| 8.5.1.4 | Continue to review and update pre-incident and emergency response plans and communication protocols for wildfire situations. | Short | Yes | Ongoing | Continuing as previously described. |
| 8.5.1.5 | Develop private property wildfire risk reduction guidelines and implement through municipal policy and/or procedures. | Short | Yes | Ongoing | Wildfire DPA brochure printed and ready for distribution once OCP passed. |

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| 8.5.1.6 | Review existing and consider more restrictive campfire and backyard fire bans and increase the enforcement of fire bans and ticketing/fines for offenses during high fire risk periods. | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.1.7 | Consider creating Development Permit Areas for wildfire protection. | Short | Unchanged | In Progress | Done and waiting for OCP adoption. |
| 8.5.1.8 | Lobby Provincial and Federal governments to increase funding for community and landscape level wildfire | Med | Unchanged | Ongoing | Nothing further on this in Q4. New provincial Wildfire Risk Reduction funding program announced. |
| 8.5.1.9 | Encourage private operators to implement wildfire prevention best practices for outdoor tourism and recreation facilities, particularly in | Med | Unchanged | Not Initiated | Nothing additional in Q4. |
| 8.5.1.10 | Enhance collaborative efforts with regional partners to prevent and respond to wildfires (i.e. MFLNRO, Sea to Sky fire rescue services, SLRD, Vancouver Coastal Health). | Long | Yes | Ongoing | All plans described previously still in effect and reviewed regularly. |
| 8.5.1.11 | Lobby the Province to incorporate FireSmart principles into the BC | Long | Unchanged | Not Initiated | Nothing additional in Q4. |
| 8.5.2 Minimize Congestion on Highway 99 | | | | | |
| 8.5.2.1 | Facilitate, develop and promote alternative and mass transportation options to and from Whistler. | Short | Unchanged | Ongoing | Ongoing discussions with corridor partners and province. |
| 8.5.3 Minimize Damage from Heavy Rain Events | | | | | |

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| 8.5.3.1 | Continue to conduct annual assessments of significant waterways to identify and mitigate high risk flood locations while respecting in-stream and riparian habitat | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.3.2 | Complete and implement a comprehensive update of the Whistler Integrated Storm water Management Plan (ISMP) that accounts for future climate change and related hydrologic changes within the lifespan of all existing and new infrastructure, buildings and developments. The | Med | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.3.3 | Complete and/or update floodplain mapping for all significant Whistler watersheds. Amend zoning and/or policies as needed to reflect | Med | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.3.4 | Follow changes in risk-based insurance premiums and overland flood insurance and adapt as needed to | Med | Unchanged | Ongoing | Nothing additional in Q4. |
| 8.5.3.5 | Review and adapt as appropriate emergency planning protocols for extreme weather occurrences and related impacts, in consideration of projected climate changes. | Med | Yes | In Progress | Flood response training exercise held in Q4 2019. |
| 8.5.3.6 | Improve the design and maintenance of current and future outdoor recreation assets to better absorb heavy rain events (i.e. trails, roads | Med | Unchanged | In Progress | Nothing additional in Q4. |

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| 8.5.3.7 | Consider improvements to signs and lighting for Highway 99 and municipal bridges with respect to weather and flooding alerts. Explore new or additional tools | Med | Unchanged | Not Initiated | •No specific initiative led by RMOW staff at this time |
| 8.5.3.8 | Update relevant policies and plans aimed at protecting Whistler's potable water supply from contamination (i.e. 21 Mile Watershed Protection Plan and Groundwater Protection Plan) to consider | Long | Unchanged | Complete | |
| 8.5.3.9 | Explore opportunities to improve sediment and erosion control requirements during development and construction. | Long | Unchanged | Complete | |
| 8.5.3.10 | Join the UN campaign "My City's Getting | Long | Unchanged | Not Initiated | •No specific initiative led by RMOW staff at this time |
| 8.5.4 Ensure Adequate Water Supply | | | | | |
| 8.5.4.1 | Continue to update and prioritize implementation of the Comprehensive Water Conservation and Supply Plan focused on municipal conservation and infrastructure improvements, in addition to relevant regulations, policies and enforcement. The plan should be updated as needed to include or | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.4.2 | Enhance public engagement, communications and social marketing initiatives to optimize water conservation | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.4.3 | Explore opportunities to improve municipal irrigation systems to maximize efficiency. | Short | Yes | In Progress | Nothing additional in Q4. |
| 8.5.4.4 | Consider opportunities to increase and promote rainwater and grey water capture and use in public and private | Long | Unchanged | Not Initiated | |
| 8.5.5 Enhance Weather Independent Tourism Opportunities | | | | | |

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| 8.5.5.1 | Consider the development of a comprehensive resort-wide product enhancement, communications and marketing strategy to improve and promote the range of weather- | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.5.2 | Explore possibilities to secure additional appropriate waterfront areas for parks and recreation as needed (according to carrying capacity research) to support long-term growth in summer visitation, | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.5.3 | Continue to advance both cultural tourism development and the expansion of complementary learning and education initiatives. | Short | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.5.4 | Explore opportunities to develop easily-accessible and affordable non-skiing, | Med | Unchanged | Not Initiated | Nothing additional in Q4. |
| 8.5.5.5 | Explore opportunities to accelerate Whistler Blackcomb Bike Park and other multi-use trail expansion in both | Med | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.5.6 | Place emphasis in relevant municipal policies on re-purposing existing under-used space to diversify tourism economy and provide non-snow-dependent recreation | Med | Unchanged | In Progress | Nothing additional in Q4. |
| 8.5.6 Improve Ski Infrastructure for Weather Variability | | | | | |
| 8.5.6.1 | Anticipate snowline changes and consider building, improving and/or moving lifts, trails and other infrastructure accordingly to maintain and enhance terrain quality and user | short | Unchanged | Not Initiated | |

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| 8.5.6.2 | Continue to improve summer/fall grooming, trail surfacing and snowmaking operations at lower elevations to facilitate more effective snow management in low-snow conditions for | med | Unchanged | Not Initiated | |
| 8.5.6.3 | Consider the potential to offer a Whistler Blackcomb combination ski/bike park pass and promote the overlap of recreation offerings | long | Unchanged | Not Initiated | |
| 8.5.6.4 | Investigate potential land exchanges to optimize potential ski | long | Unchanged | Not Initiated | |
| 8.5.6.5 | Investigate opportunities to develop and/or improve policies related to alpine land use and development, with emphasis on enhancing recreation offerings and protecting the environment. | long | Unchanged | Not Initiated | |
| 8.5.7 Minimize Threats to Ecosystems, Biodiversity and the CCF | | | | | |
| 8.5.7.1 | Improve invasive species management efforts related to increasing pressures associated with a | Short | Unchanged | Ongoing | SSISC and RMOW will continue to work together. Services agreement for 2020 will be signed in January. |
| 8.5.7.2 | Develop and implement a Biodiversity Conservation Strategy that considers climate change and includes recommendations to monitor and protect ecosystem health and | Med | Unchanged | Ongoing | Consultant and Environmental Stewardship staff continue to develop priority habitat protection framework. |
| 8.5.7.3 | Conduct research and modify Cheakamus Community Forest management plans and practices to minimize | Med | Unchanged | Complete | The CCF is aware of this issue and implemented changes to harvesting and silviculture plans to adapt. |