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COMPLETE

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Page 2: LOCAL GOVERNMENT INFORMATION

Q1 Name of Local Government **Maple Ridge, The Corporation of the District of**

Q2 Name of member Regional District **Greater Vancouver (Metro)**

Q3 Regional Growth Strategy (RGS) in your region **Yes**

Q4 Population **50,000 - 99,999**

Q5 Submitted by

Name **Daniel Olivieri**
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Page 3: BROAD PLANNING ACTIONS

Q6 Community-Wide Broad Planning Actions Taken in 2018

1. **Continuing our Cycling Education Program with the addition of at least seven more schools**
2. **Active Transportation Advisory Committee**
3. **Partner with Translink for B-line project implementation by 2019**
4. **Propose changes to bylaws to require minimum electric vehicle service equipment requirements in new multi-family developments**
5. **Heritage Planning**

Q7 Additional Community-Wide Broad Planning Actions Taken in 2018 (Optional - separate each reported action with a "\")

Detached Garden Suite (DGS) and Secondary Suite (SS) Pilot Project & Infill Residential: Sensitive infill opportunities are being created to increase density within the Urban Containment Boundary to take pressure off of greenfield development.

Q8 Community-Wide Broad Planning Actions Proposed for 2019

- | | |
|----|---|
| 1. | Ongoing research and collaboration with BCIT and UBC related to inventory of urban forests, and the evaluation of the services and cost savings associated with protection and management of natural assets |
| 2. | Commercial & Industrial Strategy Employment Lands: continuing to create more employment opportunities to increase the number of local jobs through city strategies. This will also decrease commuting distances and allow residents to live & work within the City. |
| 3. | Lougheed Corridor Transit Study: in anticipation of the new B-Line bus system, the City is looking at land use along the Lougheed Corridor to create more transit-oriented development. This will support alternative modes of transportation and Smart Growth principles through creating more compact and complete communities near the transit nodes. |
| 4. | Agriculture Development Permit: staff are currently undertaking work to look at the transition between agricultural lands to ensure an adequate vegetation buffer is maintained. |
| 5. | Zoning Bylaw: will include new requirements for waste and energy requirements to improve efficiency and encourage innovation for alternate energy sources (wind, solar & geothermal). |
-

Q9 Corporate Broad Planning Actions Taken in 2018

- | | |
|----|---|
| 1. | Promotion of Bike-to-Work-Week and Commuter Challenge with HUB |
| 2. | Promotion of car pool registry for staff members |
| 3. | Initial asset management planning |
| 4. | Integrated Area Planning process and zoning bylaw review |
| 5. | Working towards Partners in Climate Protection milestones |
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2018 CARIP Climate Action/Carbon Neutral Progress Survey

Q10 Additional Corporate Broad Planning Actions Taken in 2018(Optional - separate each reported action with a "\")

Respondent skipped this question

Q11 Corporate Broad Planning Actions Proposed for 2019

1. Inclusion of sustainable purchasing into the Purchasing Policy review
2. Scoping Report in November 2019 to Council on Green Infrastructure Mgmt. Strategy for Maple Ridge
3. Ongoing research and collaboration with BCIT and UBC related to inventory of urban forests, and the evaluation of the services and cost savings associated with protection and management of natural assets
4. Ongoing investment in working with Metro Vancouver on Priority Conservation Area Acquisition Strategy across the region including protection of highly sensitive ecosystem along Alouette R. and Kanaka Creek

Q12 What is (are) your current GHG reduction target(s)?

Reduce GHG emissions by 33% from 2007 by 2020

Q13 Are you familiar with your local government's community energy and emissions inventory (e.g. CEEI or another inventory)?

Yes

Q14 What plans, policies or guidelines govern the implementation of climate mitigation in your community?

Official Community Plan ,

Regional Growth Strategy,

Other (please specify):

Environmental Management Strategy (EMS); Strategic Transportation Plan/ Asset Management Plan

Q15 Does your local government have a corporate GHG reduction plan?

Yes

Q16 Community-Wide Building and Lighting Actions Taken in 2018

- | | |
|----|---|
| 1. | Energy efficiency/ Energy Step Code training for Builders |
| 2. | Energy Efficient Show Home (Step 3 demonstration project and on-site training) |
| 3. | Preparation for possible implementation of the BC Energy Step Code |
| 4. | Conducted Step-Code implementation GHG impact study |
-

Q17 Additional Community-Wide Building and Lighting Actions Taken in 2018(Optional - separate each reported action with a "\")

Respondent skipped this question

Q18 Community-Wide Building and Lighting Actions Proposed for 2019

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|----|--|
| 1. | Step-Code costing study resulting from Step 3 Show Home |
| 2. | Local builder's Step Code forum |
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Q19 Corporate Building and Lighting Actions Taken in 2018

- | | |
|----|--|
| 1. | Continued LED streetlight retrofit on arterials |
| 2. | Implement 5 year plan to convert entire City of Maple Ridge over to LED |
| 3. | Starting to convert all illuminated roadway signage to LED (final 50%) |
| 4. | New-Zero pathways feasibility study for new community centre |
| 5. | Leisure Centre retrofit of major systems |
-

Q20 Additional Corporate Building and Lighting Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q21 Corporate Building and Lighting Actions Proposed for 2019

- | | |
|----|---|
| 1. | Construction of LEED Silver-equivalent community centre |
| 2. | Notice of consultation with builders regarding Step Code submitted to Province |
| 3. | Conversion of sports field lighting to LED |
| 4. | Completion of lesiure centre retrofit |
-

Q22 Is your local government aware of the BC Energy Step Code? **Yes**

Q23 Is your local government planning on implementing the BC Energy Step Code? **Yes**

Page 5: ENERGY GENERATION ACTIONS

Q24 Community-Wide Energy Generation Actions Taken in 2018

- | | |
|----|--|
| 1. | Continued implementation of Solar Ready Bylaw |
|----|--|
-

Q25 Additional Community-Wide Energy Generation Actions Taken in 2018(Optional - separate each reported action with a "\") **Respondent skipped this question**

Q26 Community-Wide Energy Generation Actions Proposed for 2019

- | | |
|----|---|
| 1. | Continued implementation of Solar Ready Bylaw |
| 2. | Explore district energy system at new community centre |
| 3. | Zoning Bylaw: will include new requirements for waste and energy requirements to improve efficiency and encourage innovation for alternate energy sources (wind, solar & geothermal) |
-

Q27 Corporate Energy Generation Actions Taken in 2018

- | | |
|----|--|
| 1. | Explore renewables at new community centre |
| 2. | Operation of geoexchange system and solar thermal systems |
-

Q28 Additional Corporate Energy Generation Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q29 Corporate Energy Generation Actions Proposed for 2019

1.	Increased utilization of photovoltaic technology in construction of new community centre
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Q30 Is your local government developing or constructing a	none of the above
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Q31 Is your local government operating a	none of the above
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Q32 Is your local government connected to a district energy system that is operated by another energy provider?	No
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Q33 Are you familiar with the 2018 List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments?	Yes
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Page 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Q34 Community-Wide Greenspace Actions Taken in 2018

1.	Continuing to promote water stewardship working with ARMS and KEEPS
2.	Continuation of Tree Replacement Program
3.	Ongoing partnership with MV Parks for identification of priority conservation areas strategy along Alouette Regional Greenway, Kanaka Creek Regional Park and surrounding areas (Codd Island Wetlands, Blaney Bog, etc.)
4.	Reviewed development proposals, administering conservation lands added to the City's land base
5.	Ongoing Streamside Protection Regulations & use of Enviro. DPs for helping to ensure new development works with the natural landscape where possible to help protect streams, wetlands, and ponds. In addition to dedication of ESA lands, City is also using these protected areas so they can also be utilized for trail connections, stormwater management, erosion & slope control, protection of endangered species, flora and fauna

Q35 Does your local government have policies, plans or programs to support local food production? **Yes**

Q36 Additional Community-Wide Greenspace Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q37 Community-Wide Greenspace Actions Proposed for 2019

1. **Agriculture Development Permit: staff are currently undertaking work to look at the transition between agricultural lands to ensure an adequate vegetation buffer is maintained. This will help maintain soils and greenspace adjacent to agricultural areas and mitigate erosion.**
 2. **Food Hub: staff and the Agricultural Advisory Commission are looking at improving resident access to local food products that will help decrease the GHG's related to transportation of goods.**
 3. **New Vector Bylaw introduced to help reduce garbage wildlife problems/ issues and avoid unnecessary unsafe behavior or interactions between residents and wildlife**
 4. **Ongoing Community Env. Stewardship Education and Outreach Programs with schools and neighborhoods including KEEPS, ARMS, and Wildsafe BC Programs, Bear Aware**
 5. **Agriculture Development Permit: staff are currently undertaking work to look at the transition between agricultural lands to ensure an adequate vegetation buffer is maintained. This will help maintain soils and greenspace adjacent to agricultural areas and mitigate erosion.**
-

Q38 Corporate Greenspace Actions Taken in 2018

- | | |
|----|---|
| 1. | Partners with ARMS to plant over 500 trees and shrubs at Merkley Park |
| 2. | Further partnerships with environmental groups for stewardship, planting programs, and invasive species management |
| 3. | Corporate Actions Proposed for 2018 Proposed Update and Review of Watercourse Protection Bylaw |
| 4. | Municipal Green Infrastructure and Natural Asset Management Strategy Study |
| 5. | Municipal Stream Naming and Natural Heritage Awareness Program |

Q39 Additional Corporate Greenspace Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q40 Corporate Greenspace Actions Proposed for 2019

- | | |
|----|---|
| 1. | Review of OCP Aquifer Mapping |
| 2. | Conduct a review of the Tree Bylaw |

Q41 Does your local government have urban forest policies, plans or programs?

Yes

Page 7: SOLID WASTE ACTIONS

Q42 Community-Wide Solid Waste Actions Taken in 2018

- | | |
|----|---|
| 1. | Further expand blue-box recycling service area to include a wider range and apartment recycling pickup |
| 2. | Large item recycling pickup program (biannually) |
| 3. | Household hazardous waste (HHW) roundup day |
| 4. | Recycle BC multi-laminate pickup pilot project |
| 5. | Repair Cafes |

Q43 Additional Community-Wide Solid Waste Actions Taken in 2018(Optional - separate each reported action with a "\")

Respondent skipped this question

Q44 Community-Wide Solid Waste Actions Proposed for 2019

- | | |
|----|--|
| 1. | Continued brush chipping program offers an alternative to burning organic matter |
| 2. | Partnership with Ridge Meadows Recycling Society |
| 3. | Analysis report on Single-Use Plastics Reduction Strategy |
| 4. | Expanded service area for East Maple Ridge |
-

Q45 Corporate Solid Waste Actions Taken in 2018

- | | |
|----|--|
| 1. | Implementation of new process for organic collection at all civic facilities |
| 2. | Installation of new organics disposal bins at all civic facilities |
-

Q46 Additional Corporate Solid Waste Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q47 Corporate Solid Waste Actions Proposed for 2019

- | | |
|----|---|
| 1. | Expansion of organic collection program at municipal facilities |
| 2. | Recycling stream education initiative |
-

Q48 Does your local government have construction and demolition waste reduction policies, plans or programs?

Yes

Q49 Does your local government have organics reduction/diversion policies, plans or programs?

Yes

Page 8: TRANSPORTATION ACTIONS

Q50 Community-Wide Transportation Actions Taken in 2018

- | | |
|----|---|
| 1. | Continuing our Cycling Education Program with the addition of at least seven more schools |
| 2. | Active Transportation Advisory Committee |
| 3. | Partner with Translink for B-line project implementation by 2019 |
-

Q51 Additional Community-Wide Transportation Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q52 Community-Wide Transportation Actions Proposed for 2019

- | | |
|----|---|
| 1. | Electric Vehicles Charging Stations: staff are currently looking at expanding the requirements for new multi-family buildings to include electric vehicle charging infrastructure as a way to promote alternative transportation and decrease fuel consumption. |
| 2. | Lougheed Corridor Transit Study: in anticipation of the new B-Line bus system, the City is looking at land use along the Lougheed Corridor to create more transit-oriented development. This will support alternative modes of transportation and Smart Growth principles through creating more compact and complete communities near the transit nodes. |

Q53 Corporate Transportation Actions Taken in 2018

- | | |
|----|---|
| 1. | Promotion of Bike-to-Work-Week and Commuter Challenge with HUB |
| 2. | Promotion of car pool registry for staff members |
| 3. | Potential planning and deployment of new EV charging stations |

Q54 Additional Corporate Transportation Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q55 Corporate Transportation - Actions Proposed for 2019

- | | |
|----|--|
| 1. | Replacement and inventory increase of existing EV charging infrastructure |
| 2. | Introduction of additional EV charging station at new community centre |

Q56 Does your local government have policies, plans or programs to support:

Walking,
Cycling,
Transit Use,
Electric Vehicle Use

Q57 Does your local government have a Transportation Demand Management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)? **Yes**

Q58 Does your local government integrate its transportation and land use planning? **Yes**

Page 9: WATER AND WASTEWATER ACTIONS

Q59 Community-Wide Water and Wastewater Actions Taken in 2018

- | | |
|----|---|
| 1. | Continued tree watering bag program |
| 2. | Continued master plan development for drinking water, sewage, and drainage infrastructure |
| 3. | Continued household water restriction education and follow-up |

Q60 Additional Community-Wide Water and Wastewater Actions Taken in 2018(Optional - separate each reported action with a "\") **Respondent skipped this question**

Q61 Community-Wide Water and Wastewater Actions Proposed for 2019

- | | |
|----|---|
| 1. | Continued tree watering bag program |
| 2. | Continued master plan development for drinking water, sewage, and drainage infrastructure |
| 3. | Continued household water restriction education and follow-up |

Q62 Corporate Water and Wastewater Actions Taken in 2018

- | | |
|----|--|
| 1. | Interfacing with weather stations to optimize field watering program |
| 2. | ptimize field watering program Major sewage pump station overhaul |
| 3. | Commission two new water pump stations |

Q63 Additional Corporate Water and Wastewater Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q64 Corporate Water and Wastewater Actions Proposed for 2019

1. **Update of Water Utility Bylaw**
2. **Post-Disaster Water Supply briefing**

Q65 Does your local government have water conservation policies, plans or programs? **Yes**

Page 10: CLIMATE CHANGE ADAPTATION ACTIONS

Q66 Please identify the THREE climate impacts that are most relevant to your Local Government

Heatwaves impacting human health ,

Increased temperatures increasing wildfire activity ,

Extreme weather events contributing to urban and overland flooding

Q67 In 2018 has your local government addressed the impacts of a changing climate using any of the following?

Risk and Reduction Strategies ,

Emergency Response Planning ,

Natural/Eco Asset Management Strategies ,

Infrastructure Upgrades (e.g. stormwater system upgrades) ,

Economic Diversification Initiatives ,

Cross-Department Working Groups,

Changes to Zoning and other Bylaws and Regulations ,

Incentives for Property Owners (e.g. reducing stormwater run-off) ,

Research,

Mapping,

Partnerships,

Asset Management

2018 CARIP Climate Action/Carbon Neutral Progress Survey

Q68 Climate Change Adaptation Actions Taken in 2018
Please elaborate on (as identified above or add new) key actions and/or partnerships your local government has engaged in to prepare for, and adapt to changing climate. Add links to key documents and information where appropriate.

Respondent skipped this question

Q69 Climate Change Adaptation Actions Proposed for 2019

Respondent skipped this question

Q70 For more information please contact

Respondent skipped this question

Q71 The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation.

Indicators of Climate Change for British Columbia	Useful
Plan2Adapt	Useful
Climate Projections for Metro Vancouver	Useful
Climate Projections for the Capital Region	Haven't Used
Climate Projections for the Cowichan Valley Regional District	Haven't Used
Provinces of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: Implementation Guide for Local Governments	Useful
Public Infrastructure Engineering Vulnerability Committee (PIEVC)	Haven't Used
Sea Level Rise Adaptation Primer	Haven't Used
BC Regional Adaptation Collaborative Webinars	Useful
Retooling for Climate Change	Useful
Water Balance Model	Useful
Water Conservation Calculator	Useful
National Disaster Mitigation Program (NDMP)	Useful
Community Emergency Preparedness Fund (CEPF)	Useful
Municipalities for Climate Innovation Program (MCIP)	Haven't Used
Climate Adaptation Partner Grants (FCM)	Haven't Used
Infrastructure Planning Grants (MAH)	Useful
Federal Gas Tax Fund	Useful

2018 CARIP Climate Action/Carbon Neutral Progress Survey

Q72 Community-Wide Other Actions Taken in 2018	Respondent skipped this question
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Q73 Corporate Other Actions Taken in 2018	Respondent skipped this question
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Q74 Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?	Yes
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Q75 Is your local government using the CLIC tool?	No
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Page 12: INNOVATION AND PEER LEARNING

Q76 Community-Wide Innovation Action

Lougheed Corridor Transit Study: in anticipation of the new B-Line bus system, the City is looking at land use along the Lougheed Corridor to create more transit-oriented development. This will support alternative modes of transportation and Smart Growth principles through creating more compact and complete communities near the transit nodes.

Q77 Corporate Innovation Action	Respondent skipped this question
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Q78 For more information on actions described above contact	Respondent skipped this question
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Q79 Mitigation Programs, Partnerships and Funding	Respondent skipped this question
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Q80 Adaptation Programs, Partnerships and Funding	Respondent skipped this question
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Page 13: CARBON NEUTRAL REPORTING

Q81 Did your local government measure corporate GHG emissions for 2018?	Yes
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Q82 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent)

2045

Q83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent)
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205

Q84 Total A: Corporate GHG emissions for 2018 (Direct GHGs + Contracted GHGs)

2250

Page 14: REPORTING REDUCTIONS AND OFFSETS

Q85 Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q86 Solar Thermal(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q87 Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q88 Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q89 Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q90 Total B: Reductions from all Option 1 Projects for 2018 **Respondent skipped this question**

Q91 If applicable, please report the names and 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects **Respondent skipped this question**

Q92 Total C: Reductions from all Option 2 Projects for 2018 **Respondent skipped this question**

Q93 If applicable, please report the name of offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2018 reporting year. Note: Please do not include funds that may be set aside in a climate action reserve fund. **Respondent skipped this question**

Q94 Total D: Offsets purchased for 2018 **Respondent skipped this question**

Q95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D)= tCO2e **Respondent skipped this question**

Q96 Corporate GHG Emissions balance for 2018 = (A- (B+C+D) = tCO2e

2250

Q97 If your local government was carbon neutral in 2018, please record any emissions reductions you will be carrying over for future years and the source of the reductions, including the year they were earned (e.g. organics diversion, 2018 100 tCO2e)

Respondent skipped this question

Q98 Balance of reductions eligible for carry over to the next year (tCO2e)(total of emissions reductions identified above)

Respondent skipped this question

Q99 Does your local government set aside funds in a climate reserve fund or something similar?

Yes

Page 15: GREEN COMMUNITIES CLIMATE ACTION RECOGNITION PROGRAM

Q100 Based on your local government's 2018 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies

Level 2 - Measuring GHG Emissions

Q101 Related to Level 3 recognition, if applicable, please identify any new or ongoing corporate or community-wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time and/or financial resources and is intended to result in significant GHG reductions (e.g. project name)

Respondent skipped this question