

#102

COMPLETE

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Page 2: LOCAL GOVERNMENT INFORMATION

Q1 Name of Local Government **Langley, City of**

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

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

Q4 Population **10,000 - 49,999**

Q5 Submitted by:

Name **Roy M. Beddow**
Position **Deputy Director of Development Services**
Email Address **rbeddow@langleycity.ca**
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Page 3: BROAD PLANNING ACTIONS

Q6 2017 Community-Wide Broad Planning Actions

1. **Prepare new zoning bylaw including green building and sustainable development provisions**

Q7 Additional 2017 Community-Wide Broad Planning (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q8 Community-Wide Broad Planning - Actions Proposed for 2018 **Respondent skipped this question**

Q9 2017 Corporate Broad Planning Actions

1. **Complete 2016 Corporate Energy & GHG Emissions Inventory**

Q10 Additional 2017 Corporate Broad Planning Actions(Optional - separate each reported action with a "\") **Respondent skipped this question**

Q11 Corporate Broad Planning - Actions Proposed for 2018

1. **Complete 2017 Corporate Energy & GHG Emissions Inventory**

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

-Reduce community emissions by 20,992 tonnes CO₂e from 2017 forecast (16% reduction from 2007 level) -Reduce corporate emissions by 134 tonnes CO₂e from 2018 forecast (12% reduction from 2008 level)

Q13 Are you familiar with your community'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?

Community Energy and Emissions Plan ,

Integrated Community Sustainability Plan ,

Community-Wide Climate Action Plan ,

Official Community Plan (OCP) ,

Regional Growth Strategy

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

Page 4: BUILDING AND LIGHTING ACTIONS

Q16 2017 Community-Wide Building and Lighting Actions

1. **Prepare new zoning bylaw including green building and sustainable development provisions**

2017 CARIP Climate Action/Carbon Neutral Progress Survey

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

Respondent skipped this question

Q18 Community-Wide Building and Lighting - Actions Proposed for 2018

Respondent skipped this question

Q19 2017 Corporate Building and Lighting Actions

1. Replace 150 w metal halide lights in City Hall with 32 w LED (30 units)
2. Replace streetlights around City Hall/Timms Community Centre with more efficient units
3. Replace streetlights on 56 Avenue from Glover Road to Langley Bypass with LED units
4. Replace streetlights on 203 Street from Grade Crescent to Nicomekl River with
5. Remove traffic signal at 203 Street/53 Avenue intersection (new traffic circle)

Q20 Additional 2017 Corporate Building and Lighting Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q21 Corporate Building and Lighting - Actions Proposed for 2018

1. Retrofit approximately 700 streetlights with LED units

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 2017 Community-Wide Energy Generation Actions

Respondent skipped this question

Q25 Additional 2017 Community-Wide Energy Generation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

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Q26 Community-Wide Energy Generation - Actions Proposed for 2018 **Respondent skipped this question**

Q27 2017 Corporate Energy Generation Actions **Respondent skipped this question**

Q28 Additional 2017 Corporate Energy Generation Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q29 Corporate Energy Generation - Actions Proposed for 2018 **Respondent skipped this question**

Q30 Is your local government developing or constructing... **None of the above**

Q31 Is your local government operating... **None of the above**

Q32 Is your local government connected to a district energy system that is operated by another energy provider? **No**

Q33 Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? **Yes**

Q34 Are you familiar with the 2017 "List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments"? **Yes**

Page 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Q35 2017 Community-Wide Greenspace Actions

1. **Complete Langley Urban Agriculture Demonstration Project Phase I (Planning) in partnership with Metro Vancouver and Kwantlen Polytechnic University**
 2. **Complete Penzer Park upgrades in accordance with Buckley-Penzer Park Master Plan.**
 3. **Prepare plan for Michaud Park community gardens.**
 4. **Complete 2017 Invasive Species Removal Program.**
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Q36 Does your local government have policies, plans or programs to support local food production? **Yes**

Q37 Additional 2017 Community-Wide Greenspace Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q38 Community-Wide Greenspace - Actions Proposed for 2018

1. **Construct Michaud Park community gardens.**
 2. **Construct City Park improvements per master plan.**
 3. **Construct additional upgrades at Penzer Park.**
 4. **Prepare Rotary Centennial Park Master Plan.**
 5. **Prepare Brydon Park Master Plan.**
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Q39 2017 Corporate Greenspace Actions

1. **Replace lighting in Douglas Park with LED units.**
-

Q40 Additional 2017 Corporate Greenspace Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q41 Corporate Greenspace - Actions Proposed for 2018 **Respondent skipped this question**

Q42 Does your local government have urban forest policies, plans or programs? **No**

Page 7: SOLID WASTE ACTIONS

Q43 2017 Community-Wide Solid Waste Actions

1. **Host Household Hazardous Waste event.**
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Q44 Additional 2017 Community-Wide Solid Waste Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q45 Community-Wide Solid Waste - Actions Proposed for 2018

1. **Host Household Hazardous Waste event.**
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Q46 2017 Corporate Solid Waste Actions **Respondent skipped this question**

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Q47 Additional 2017 Corporate Solid Waste Actions
(Optional - separate each reported action with a "\")

Respondent skipped this question

Q48 Corporate Solid Waste - Actions Proposed for 2018

Respondent skipped this question

Q49 Does your local government have construction and demolition waste reduction policies, plans or programs?

Yes

Q50 Does your local government have organics reduction/diversion policies, plans or programs?

Yes

Page 8: TRANSPORTATION ACTIONS

Q51 2017 Community-Wide Transportation Actions

1. **Complete 56 Avenue improvements from Glover Road to Langley Bypass including bicycle lanes.**
2. **Complete 48 Avenue bicycle lanes from 200 Street to 203 Street.**
3. **Complete 203 Street improvements including bikeway from Grade Crescent to Nicomekl River.**
4. **Construct bicycle lanes on 53/51B Avenue from 196-200 Street and 203-208 Street.**
5. **Design for sidewalks on 46A Avenue from 204 Street to 208 Street**

Q52 Additional 2017 Community-Wide Transportation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q53 Community-Wide Transportation- Actions Proposed for 2018

1. **Construct sidewalks on 46A Avenue from 206-208 Street.**
2. **Construct sidewalks on Duncan Way from Glover Road to 204 Street overpass.**
3. **Construct bicycle lanes on Douglas Crescent from 206-208 Street.**
4. **Design for bicycle lanes on Glover Road from Fraser Highway to Langley Bypass.**
5. **Design for bicycle lanes on 208 Street from 52 Avenue to Fraser Highway.**

Q54 2017 Corporate Transportation Actions

1. **Purchase plug-in hybrid-electric vehicle for building inspection.**

Q55 Additional 2017 Corporate Transportation Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q56 Corporate Transportation - Actions Proposed for 2018 **Respondent skipped this question**

Q57 Does your local government have policies, plans or programs to support: **Walking,**
Cycling,
Transit,
Electric Vehicles

Q58 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) **No**

Q59 Does your local government integrate its transportation and land use planning? **Yes**

Page 9: WATER AND WASTEWATER

Q60 2017 Community-Wide Water and Wastewater Actions

1. **Complete Nicomekl River Integrated Stormwater Management Plan in partnership with the Township of Langley.**
2. **Replace aging AC pipes (water, sanitary).**
3. **Replace Baldi Creek culvert at 53 Avenue.**

Q61 Additional 2017 Community-Wide Water and Wastewater Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q62 Community-Wide Water and Wastewater - Actions Proposed for 2018

1. **Replace Muckle Creek culverts at 48 and 50 Avenue.**
 2. **Replace Logan Creek culvert at Langley Bypass.**
 3. **Replace aging AC pipes (water, sanitary).**
-

Q63 2017 Corporate Water and Wastewater Actions **Respondent skipped this question**

Q64 Additional 2017 Corporate Water and Wastewater Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q65 Corporate Water and Wastewater - Actions Proposed for 2018

1. **Replace SCADA system for water reservoir and pump stations.**
-

Q66 Does your local government have water conservation policies, plans or programs? **Yes**

Page 10: CLIMATE CHANGE ADAPTATION ACTIONS

Q67 Is your local government concerned about any of the following impacts from a changing climate? (Please check top three)

Changes to temperature and precipitation causing seasonal drought
,

Extreme weather events contributing to urban and overland flooding
,

Sea level rise and storms causing flooding and/or erosion

Q68 In the last year has your local government addressed the impacts of a changing climate using any of the following?

- Risk and Vulnerability Assessments** ,
- Risk and Reduction Strategies** ,
- Emergency response planning** ,
- Infrastructure upgrades (e.g. stormwater system upgrades)** ,
- Public education and awareness** ,
- Research,**
- Partnerships**

Q69 Climate Change Adaptation Actions Taken in 2017 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.

1. **Initiate Flood Risk Management Strategy.**

Q70 Climate Change Adaptation - Actions Proposed for 2018

1. **Complete Flood Risk Management Strategy.**

Q71 For more information please contact:

Rick Bomhof, P.Eng.
 Director of Engineering, Parks & Environment

Q72 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. Are you familiar with any of these adaptation resources?

- Plan2Adapt, Climate Projections for Metro Vancouver** ,
- Preparing for Climate Change: Implementation Guide** ,
- Municipalities for Climate Innovation Program (MCIP)** ,
- Climate Adaptation Partner Grants (FCM), Infrastructure Planning Grants (MAH)** ,
- Federal Gas Tax Fund**

2017 CARIP Climate Action/Carbon Neutral Progress Survey

Q73 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, 2016	Haven't Used
Plan2Adapt	Haven't Used
Climate Projections for Metro Vancouver	Haven't Used
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: An Implementation Guide for Local Governments	Haven't Used
The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol	Haven't Used
Sea Level Rise Primer	Haven't Used
BC Regional Adaptation Collaborative Webinars	Haven't Used
www.ReTooling.ca	Haven't Used
Water Balance Model	Haven't Used
Water Conservation Calculator	Haven't Used
National Disaster Mitigation Program (NDMP)	Haven't Used
Community Emergency Preparedness Fund (CEPF)	Haven't Used
Municipalities for Climate Innovation Program (MCIP)	Useful
Climate Adaptation Partner Grants (FCM)	Haven't Used
Infrastructure Planning Grants (MAH)	Useful
Federal Gas Tax Fund	Haven't Used

Page 11: OTHER CLIMATE ACTIONS

Q74 2017 Community-Wide Other Actions **Respondent skipped this question**

Q75 2016 Corporate Other Actions **Respondent skipped this question**

Q76 Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)? **No**

Q77 Have you used the CLIC? **No**

Page 12: INNOVATION AND PEER LEARNING

Q78 Community - Wide Innovation

Respondent skipped this question

Q79 Corporate Innovation

Respondent skipped this question

Q80 For more information on actions described above contact:

Respondent skipped this question

Q81 Mitigation Programs, Partnerships and Funding

Metro Vancouver Sustainability Innovation Fund (Langley Urban Agriculture Demonstration Project)

Q82 Adaptation Programs, Partnerships and Funding

Respondent skipped this question

Page 13: 2016 CARBON NEUTRAL REPORTING

Q83 Did you measure your local government's corporate GHG emissions in 2017? **Yes**

Q84 If your local government measured 2017 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) Please note that as a result of the BC Recycling Regulation, local governments are no longer required to account for greenhouse gas (GHG) emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual CARIP reports.

640 tonnes

Q85 If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent):

116 tonnes

Q86 Total A: Corporate GHG emissions for 2017 (Direct GHGs + Contracted GHGs)

756 tonnes

Page 14: REPORTING REDUCTIONS AND OFFSETS

Q87 Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q88 Solar Thermal(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

2017 CARIP Climate Action/Carbon Neutral Progress Survey

Q89 Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO₂e))

349 tonnes

Q90 Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO₂e)) **Respondent skipped this question**

Q91 Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO₂e)) **Respondent skipped this question**

Q92 Total B: Reductions from all Option 1 Projects for 2017

349 tonnes

Q93 If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects: **Respondent skipped this question**

Q94 Total C: Reductions from all Option 2 Projects for 2017 **Respondent skipped this question**

Q95 If applicable, please report the name of offset provider, type of project and the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2017 reporting year. Note: Please do not include funds set aside in a climate action reserve fund. **Respondent skipped this question**

Q96 Total D: Offsets purchased for 2017 **Respondent skipped this question**

Q97 TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D)

349 tonnes

Q98 Corporate GHG Emissions balance for 2017 = (A- (B+C+D) =

407 tonnes

Q99 If applicable, 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, 2017 100 tCO₂e). **Respondent skipped this question**

2017 CARIP Climate Action/Carbon Neutral Progress Survey

Q100 Balance of reductions eligible for carry over to the next year (tCO₂e)(total of emissions reductions identified above)

Respondent skipped this question

Q101 Does your local government set aside funds in a climate reserve fund or something similar?

Yes

Page 15: RECOGNITION

Q102 Based on your local government's 2017 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

Level 3 - Accelerating Progress on Charter Commitments

Q103 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.

Upgrade of HVAC systems and lighting in municipal buildings
