

# Climate Action Revenue Incentive (CARIP) Public Report for 2016

**Local Government: District of North Saanich**

**Report Submitted by  
Stephanie Munro,  
Director of Financial Services**

**June 1, 2016**



The District of North Saanich has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

**Q6: 2016 Community-Wide Broad Planning Actions**

1. OCP Section 6.0 Residential, Section 16.0  
Regional Context Statement Section 18.7 GHG  
Reduction
2. Provincial Flood Area Hazard Management  
Guidelines - Planning OCP Section 4.0 Marine  
Action - staff is part of technical advisory  
committee
3. OCP Section 5.0 Agriculture, Section 16.0  
Regional Context Statement District of North  
Saanich Climate Change Action Plan - Local  
food production
4. OCP Section 16.0 Regional Context Statement  
Actions CRD Regional Growth Strategy  
Informal Referral response Agriculture Strategy  
and Food Systems Component Comments  
CRD Climate Action Team

**Q7: Additional 2016 Community-Wide Broad Planning  
(Optional - separate each reported action with a "\")**

*Respondent skipped this  
question*

**Q8: Community-Wide Broad Planning - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | OCP Section 6.0 Residential, Section 16.0<br>Regional Context Statement Section 18.7 GHG<br>Reduction   |
| 2. | Provincial Flood Area Hazard Management<br>Guidelines - Planning OCP Section 4.0 Marine<br>Action - staff is part of technical advisory<br>committee  |
| 3. | OCP Section 16.0 Regional Context Statement<br>Actions CRD Regional Growth Strategy<br>Informal Referral response Agriculture Strategy<br>and Food Systems Component Comments<br>CRD Climate Action Team - continued<br>participation |

**Q9: 2016 Corporate Broad Planning Actions**

- |    |   |
|----|---|
| 1. | Advanced parl improvements and<br>transportation connectors |
| 2. | Extended bike lanes on McDonald park road                   |

**Q10: Additional 2016 Corporate Broad Planning Actions(Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q11: Corporate Broad Planning - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | DNS Strategic Plan #1 Develop a template and<br>guidelines for Environmental Impact<br>Assessments for development proposals                          |
| 2. | DNS Strategic Plan #2 - Staff to prepare a<br>report to Council regarding the Climate Action<br>Strategy monitoring and reporting                     |
| 3. | DNS Strategic Plan #2 - Prepare policies to<br>guide marine and shoreline development<br>(include planning for sea level rise)                        |
| 4. | DNS Strategic Plan #16 - Use grant funding to<br>improve road, bike path and trail systems to<br>support people powered travel within the<br>District |
| 5. | DNS Strategic Plan #39 - Staff to bring forward<br>the Energy Efficiency DP area report   |

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

OCP Section 16.0 Regional Context Statement and  
Section 18.7 Greenhouse Gas Reduction

**Q13: Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?**

Yes

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

Integrated Community Sustainability Plan,  
Official Community Plan (OCP),  
Other (please specify) Regional Growth Strategy

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

Yes

**Q16: Does your local government set aside funds in a climate reserve fund or something similar?**

Yes

**PAGE 4: BUILDING AND LIGHTING ACTIONS**

**Q17: 2016 Community-Wide Building and Lighting Actions**

1. OCP Section 14.0 Development Permit Area, Section 16.0 Regional Context Statement, Section 18.7 GHG Reduction - report on DPA development permit area, zoning bylaw amendment

**Q18: Additional Community-Wide Building and Lighting Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q19: Community-Wide Building and Lighting - Actions Proposed for 2017**

1. OCP Section 14.0 Development Permit Area, Section 16.0 Regional Context Statement, Section 18.7 GHG Reduction - report on DPA development permit area, zoning bylaw amendment

**Q20: 2016 Corporate Building and Lighting Actions**

1. Action - the Municipal Hall replacement project is the emergency operations centre for the area so it is designed and constructed seismically stable, energy efficient and offers new energy features such as solar panels which will allow the District hall to be operational in an emergency. The elements of the project include variable refrigeration flow heating and cooling system, natural lighting, LED lighting with motion sensors, roof water capture and use for flushing of toilets. The power from the solar panels will be stored in two battery packs for a total of 200 kW.

**Q21: Additional 2016 Corporate Building and Lighting Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q22: Corporate Building and Lighting - Actions Proposed for 2017**

- |    |  |
|----|--|
| 1. | Action - the Municipal Hall replacement project continues, as it is the emergency operations centre for the area so it is designed and constructed seismically stable, energy efficient and offers new energy features such as solar panels which will allow the District hall to be operational in an emergency. The elements of the project include variable refrigeration flow heating and cooling system, natural lighting, LED lighting with motion sensors, roof water capture and use for flushing of toilets. The power from the solar panels will be stored in two battery packs for a total of 200 kW. |
|----|--|

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**PAGE 5: ENERGY GENERATION ACTIONS**

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**Q23: 2016 Community-Wide Energy Generation Actions**

- |    |   |
|----|---|
| 1. | OCP Section 16.0 RCS Section 18.7 GHG Reduction - Energy and Water Conservation and GHG Reduction Development Permit Area |
|----|---|

**Q24: Additional 2016 Community-Wide Energy Generation Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q25: Community-Wide Energy Generation - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | OCP Section 16.0 RCS Section 18.7 GHG Reduction - Energy and Water Conservation and GHG Reduction Development Permit Area |
|----|---|

**Q26: 2016 Corporate Energy Generation Actions**

- |    |   |
|----|---|
| 1. | OCP Section 18.7 GHG Reduction - noted in overview, new Municipal Hall project energy reduction |
|----|---|

**Q27: Additional 2016 Corporate Energy Generation Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q28: Corporate Energy Generation - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | OCP Section 18.7 GHG Reduction - noted in overview, new Municipal Hall project energy reduction |
|----|---|

**Q29: Is your local government developing or constructing...**

A renewable energy system

**Q30: Is your local government operating...**

A renewable energy system

**Q31: Is your local government connected to a district energy system that is operated by another energy provider?**

No

**Q32: Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit?** Yes

**PAGE 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS**

**Q33: 2016 Community-Wide Greenspace Actions**

- |    |   |
|----|---|
| 1. | Jubilee Park - Phase 1 complete   |
| 2. | Advance park improvements, beach access identified in North Saanich Parks Master Plan |
| 3. | Tree planting initiative  |

**Q34: Additional 2016 Community-Wide Greenspace Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q35: Community-Wide Greenspace - Actions Proposed for 2017**

- |    |  |
|----|--|
| 1. | Jubilee Park - Phase 2 in progress (playground)                                  |
| 2. | Advance park improvements, beach access identified in North Saanich Parks Master |
| 3. | Tree planting initiative   |
| 4. | Contribution to Rhododendran ravine restoration                                  |

**Q36: 2016 Corporate Greenspace Actions**

- |    |   |
|----|---|
| 1. | Continue to advance park improvements - Downey Road Beach access complete |
| 2. | Continue tree planting initiatives  |

**Q37: Additional 2016 Corporate Greenspace Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q38: Corporate Greenspace - Actions Proposed for 2017**

- |    |  |
|----|--|
| 1. | Continue municipal apple orchard and gardens |
| 2. | Continue tree planting initiatives           |

**Q39: Does your local government have urban forest policies, plans or programs?**

No

**PAGE 7: SOLID WASTE ACTIONS**

**Q40: 2016 Community-Wide Solid Waste Actions**

- |    |   |
|----|---|
| 1. | Solid waste is managed by the Capital Regional District |
|----|---|

**Q41: Additional 2016 Community-Wide Solid Waste Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q42: Community-Wide Solid Waste - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | Solid waste is managed by the Capital Regional District |
|----|---|

**Q43: 2016 Corporate Solid Waste Actions**

- |    |  |
|----|--|
| 1. | Operate a Green Waster and Clean Construction Waste drop-off program |
|----|--|

**Q44: Additional 2016 Corporate Solid Waste Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q45: Corporate Solid Waste - Actions Proposed for 2017**

- |    |  |
|----|--|
| 1. | Operate a Green Waster and Clean Construction Waste drop-off program |
|----|--|

**Q46: Does your local government have construction and demolition waste reduction policies, plans or programs?**

Yes

**Q47: Does your local government have organics reduction/diversion policies, plans or programs?**

Yes

**PAGE 8: TRANSPORTATION ACTIONS**
**Q48: 2016 Community-Wide Transportation Actions**

- |    |                         |
|----|-------------------------|
| 1. | New BC Transit Shelters |
|----|-------------------------|

**Q49: Additional 2016 Community-Wide Transportation Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q50: Community-Wide Transportation- Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | BC Transit continues to review options to expand into Dean Park |
|----|---|

**Q51: 2016 Corporate Transportation Actions**

- |    |   |
|----|---|
| 1. | 700m of new bike lanes on West Saanich Road |
|----|---|

**Q52: Additional 2016 Corporate Transportation Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q53: Corporate Transportation - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | Complete bike lanes on West Saanich Road - \$1M project |
| 2. | Electric vehicle purchase - building inspector vehicle  |

**Q54: Does your local government have policies, plans or programs to support:**

Walking, Cycling, Transit, Electric Vehicles

**Q55: 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

**Q56: Does your local government have policies, plans or programs to support local food production? (Thus reducing transportation emissions)** Yes

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**PAGE 9: WATER AND WASTEWATER**

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**Q57: 2016 Community-Wide Water and Wastewater Actions**

1. CRD Water Conservation Bylaws

**Q58: Additional 2016 Community-Wide Water and Wastewater Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q59: Community-Wide Water and Wastewater - Actions Proposed for 2017**

1. CRD Water Conservation Bylaws

**Q60: 2016 Corporate Water and Wastewater Actions**

1. Completion of a District of North Saanich Water System Master Plan

**Q61: Additional 2016 Corporate Water and Wastewater Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*

**Q62: Corporate Water and Wastewater - Actions Proposed for 2017**

1. Initiate the development of a District of North Saanich Drainage Master Plan

2. Development of a new Leak Adjustment Policy

**Q63: Does your local government have water conservation policies, plans or programs?**

Yes

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**PAGE 10: CLIMATE CHANGE ADAPTATION ACTIONS**

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**Q64: 2016 Climate Change Adaptation Actions**

1. Flood Construction Level Development Permit Area Development

2. Resilience Planning - Visualizations for Adaptation

3. RGS - initiate process of GHG requirement review of consistency with RCS

**Q65: Additional 2016 Climate Change Adaptation Actions (Optional - separate each reported action with a "\")**

*Respondent skipped this question*



**Q66: Climate Change Adaptation - Actions Proposed for 2017**

- |    |   |
|----|---|
| 1. | Flood Construction Level Development Permit<br>Area Development             |
| 2. | Resilience Planning - Visualizations for<br>Adaptation                      |
| 3. | RGS - initiate process of GHG requirement<br>review of consistency with RCS |

**Q67: Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide)**

*Respondent skipped this question*

**Q68: In 2016 did you consider climate change impacts in any of the following areas?**

Risk reduction strategies,  
Risk and vulnerability assessment,  
Asset management,  
Infrastructure upgrades (e.g. stormwater systems upgrades)  
,  
Emergency response planning,  
Land-use policy changes (eg. OCP, DPA),  
Ecosystem based approaches (incl. shoreline),  
Public Education and awareness,  
Research (e.g. mapping, participation in studies)

**PAGE 11: OTHER CLIMATE ACTIONS**

**Q69: 2016 Community-Wide Other Actions**

*Respondent skipped this question*

**Q70: 2016 Corporate Other Actions**

*Respondent skipped this question*

**Q71: Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?**

Yes

**Q72: Have you used the CLIC?**

No

**PAGE 12: INNOVATION AND PEER LEARNING**

**Q73: Community - Wide Innovation**

Sea Level Rise Workshops  
Resilience Planning Workshops and Planning

**Q74: Corporate Innovation**

*Respondent skipped this question*

Q75: Programs, Partnerships and Funding

*Respondent skipped this question*

## PAGE 13: 2016 CARBON NEUTRAL REPORTING

Q76: Did you measure your local government's corporate GHG emissions in 2016?

Yes

Q77: If your local government measured 2016 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):

*Respondent skipped this question*

Q78: If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent):

*Respondent skipped this question*

Q79: Total A: Corporate GHG emissions for 2016 (Direct GHGs + Contracted GHGs)

*Respondent skipped this question*

## PAGE 14: REPORTING REDUCTIONS AND OFFSETS

Q80: Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))*Respondent skipped this question*Q81: Solar Thermal(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))*Respondent skipped this question*Q82: Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))*Respondent skipped this question*Q83: Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))*Respondent skipped this question*Q84: Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e))*Respondent skipped this question*

Q85: Total B: Reductions from all Option 1 Projects for 2016

*Respondent skipped this question*

Q86: If applicable, please report the names and 2016 GHG emissions reductions being claimed from Option 2 GHG Reduction Projects:

*Respondent skipped this question*

Q87: Total C: Reductions from all Option 2 Projects for 2016

*Respondent skipped this question*

Q88: If applicable, please report the name of offset provider and the number of offsets purchased for the 2016 reporting year. Note: Please do not include funds set aside in a climate action reserve fund.

*Respondent skipped this question*

## 2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q89: Total D: Offsets purchased for 2016

*Respondent skipped this question*

Q90: TOTAL REDUCTIONS AND OFFSETS FOR 2016  
(Total B+C+D)

*Respondent skipped this question*

Q91: Corporate GHG Emissions balance for 2016 = (A-  
(B+C+D) =

217.4

### PAGE 15: RECOGNITION

Q92: Based on your local government's 2016 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

Level 2 - Measuring GHG Emissions

Q93: 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.

*Respondent skipped this question*