

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government: Islands Trust

Report Submitted by:

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Date: May 31, 2017

Islands Trust 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.

2016 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Local Trust Committees continue to review the impact on the environment when considering reports from staff on issues related to land-use planning. All staff reports provide information on the impact of the decision on climate change.
Corporate Actions Proposed for 2017	
	The work noted above is ongoing.

Broad Planning	
What is (are) your current GHG reduction target(s)?	<p>Denman OCP – reduce GHG emissions 33% by 2020, and 85% by 2050 over 2007 levels</p> <p>Hornby OCP – reduce GHG emissions 25% by 2020 and 80% by 2050 over 2007 levels</p> <p>Lasqueti OCP – maintain GHG emissions at or below 50% of Canadian per capita average, to be verified in 2020 and 2050</p> <p>Gambier OCP – reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p>

	<p>Keats OCP – reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Gambier Associated islands OCP - reduce GHG emissions 20% by 2020 and 85% by 2050 over 2007</p> <p>Gabriola OCP - reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Mudge OCP – achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>DeCoursey OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Thetis OCP - reduce GHG emissions 33% by 2020 and 85% by 2050 over 2007 levels</p> <p>Valdes RLUB (part 1) – no targets, policies to consider GHG emission reductions in developments</p> <p>Thetis Associated islands OCP – no targets, policies to minimise GHG emissions</p> <p>Ballenas Winchelsea OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Galiano OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>Mayne OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>Saturna OCP - reduce GHG emissions 33% by 2020 from 2007 levels.</p> <p>South Pender OCP – no targets, policies to consider during land development</p> <p>North Pender OCP - reduce GHG emissions 33% by 2020 from 2007 levels</p> <p>North Pender Associated Islands OCP - achieve per capita emissions 50% lower than Canadian average by 2020 and 2050</p> <p>Salt Spring OCP - reduce GHG emissions 15% by 2015, 40% by 2020 and 85% by 2050 over 2007 levels</p> <p>Piers Island OCP – no target – commitment to reducing GHG emissions in development and cooperation with others</p>
<p>Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?</p>	<p>No</p>

What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	No
• Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	Yes
• Regional Growth Strategy (RGS)	No
• Do not have a plan	No
• Other:	No
Does your local government have a corporate GHG reduction plan?	Yes
Does your local government have a climate reserve fund or something similar?	No

2016 BUILDINGS AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Not applicable to Islands Trust.

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2016	
	No new actions in 2016, however, Islands Trust has written several publications on renewable energy which are available on our website including: <ul style="list-style-type: none"> - Renewable Energy Technology in the Trust – Domestic Small Scale Wind Energy - Renewable Energy Technology in the Trust – Ocean Based Geo-Exchange Systems - Micro-Hydro Energy Systems

Community-Wide Actions Proposed for 2017	
	None

Corporate Actions Taken in 2016	
	N/A
Corporate Actions Proposed for 2017	
	N/A

Energy Generation	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government operating:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government connected to a district energy system that is operated by another energy provider?	No
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	Yes

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION ACTIONS

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2016	
	The Islands Trust Fund continues to protect mature and maturing forests through acquisition and covenants. The forests of the Islands Trust Area have a high carbon storage capacity, with the potential to act as a major sink for carbon produced in the region.
	In 2016, the Islands Trust Fund: <ul style="list-style-type: none"> - acquired a 21-hectare nature reserve on Moore Hill on Thetis Island; and - protected 6.12 hectares on Hornby Island and 2.15 hectares on Salt Spring Island with voluntary conservation covenants.

	A full list of protected areas is available on the Trust Fund website: http://www.islandstrustfund.bc.ca/protected-places/places-protected-in-the-islands/full-list.aspx
Community-Wide Actions Proposed for 2017	
	The work of the Trust Fund Board is ongoing.

Corporate Actions Taken in 2016	
	Planning staff work with corresponding regional districts to acquire parkland as part of any subdivision application.
Corporate Actions Proposed for 2017	
	This above work is ongoing.

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

2016 SOLID WASTE ACTIONS

Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Not applicable to Islands Trust. The regional districts in the Islands Trust area have responsibility for waste transfer and recycling. As members of the CRD Climate Action Inter-Municipal Working Group, Islands Trust is able to claim their share of the balancing credits from the Organic Waste Diversion Project Profile (attached).

2016 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2016	
	Regional Districts and the Ministry of Transportation have responsibility for transportation on islands in the Islands Trust area.
	The CRD Transportation Commission and several non-profit organizations have initiated resources to support efficient modes of transportation that will contribute to reductions in greenhouse gas emissions (one example is the Gabriola Island GERTIE bus).
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Several Local Trust Committees include the support and creation of walking and cycling paths through their subdivision and development application processes.
	Islands Trust staff participate in the Bike to Work Week. Salt Spring and Gabriola Island offices set up refreshment stations to bring community awareness to alternate transportation options.
	Islands Trust continues to be a member of both the Nanaimo and Victoria car share programs.
Corporate Actions Proposed for 2017	
	The actions noted for 2016 will continue in 2017.
	Islands Trust is developing a business case for the acquisition of an electric vehicle for use by Salt Spring Island staff while engaged in business travel.
	Islands Trust is developing a business case to implement new technology which will increased capacity for electronic meetings and reduce travel by staff and trustees.

Transportation	
Does your local government have policies, plans or programs to support:	
• Walking	Yes
• Cycling	Yes
• Transit Use	Yes
• Electric Vehicle Use	Yes
• Other (please specify)	N/A

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)?	N/A
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

2016 WATER AND WASTEWATER ACTIONS

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.

Community-Wide Actions Taken in 2016	
	The Salt Spring Island Water Protection Authority (SSIWPA) has continued with its mandate to provide a coordinated governmental and agency approach to watershed management and protection of fresh water resources on Salt Spring Island.
Community-Wide Actions Proposed for 2017	
	In partnership with Vancouver Coastal Health, Island Health and FLNRO, a series of well and groundwater workshops will be held throughout the Islands Trust area June – August of 2017.

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	A Freshwater Specialist staff position was approved for the 2017/18 budget to spearhead initiatives related to the protection of fresh water resources in the Islands Trust area.
Water Conservation	
Does your local government have water conservation policies, plans or programs?	Yes

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Climate Change Adaptation Actions Taken in 2016	
Climate Change Adaptation Actions Proposed for 2017	

Resources you have used to support climate change adaptation (e.g. Plan2Adapt , Preparing for Climate Change: Implementation Guide)	
	Planners have used CRD’s sea-level rise model for shoreline development projects.

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	No
Risk and Vulnerability assessment	No
Asset management	No
Infrastructure upgrades (e.g. stormwater system upgrades)	No
Cross-department working groups	No
Emergency response planning	No
Land-use policy changes (eg. OCP, DPA)	Yes
Economic diversification initiatives	No
Ecosystem-based approaches (incl. shorelines)	No
Incentives (e.g. property owner reducing stormwater run-off)	No
Public education and awareness	No
Research (e.g. mapping, participation in studies)	No
Other (Please Identify):	None

2016 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	A new lease for office space in Victoria includes the replacement of windows which will provide increased energy efficiency.

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide GHG reduction or climate change adaptation activity that your local government has undertaken and that has had or has the potential to have a significant impact. Projects included here may be featured as success stories on the B.C. Climate Action Toolkit and/or shared with other local governments to inspire further climate action. Please add links to additional information where possible.

Community-Wide Innovative Action

Corporate Innovative Action

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government's climate actions by listing each entry in the box below.

Programs and Funding
Partners have been identified in the applicable Community Action sections above.

2016 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially *Becoming Carbon Neutral: A Guide for Local Governments in British Columbia*.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	Yes
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	58.5
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	58.5 tCO₂e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (community GHG emissions reduction projects that meet project eligibility requirements)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	

Household Organic Waste Composting (see attached Project Plan)	135.5
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	135.5 tCO2e

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	tCO2e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO2e)) from an offset provider for the 2016 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2016	tCO2e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = 135.5 tCO2e

Corporate GHG Emissions Balance for 2016

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2016 = (A – (B+C+D)) = -77 tCO₂e

**If your Corporate GHG Emissions Balance is negative or zero,
your local government is carbon neutral.
CONGRATULATIONS!**

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – Demonstrating Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (ie: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of 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 or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:

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

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	



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File: 5220-20
Greenhouse Gas Credits

Organics Waste Diversion (Project Profile 1D)

Option 1D: Organic Waste Composting Project Plan

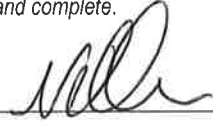
Project Proponent Information	
Name of Local Government Project Proponent(s)	Provide the name of the local government(s) involved in the project and that will be claiming GHG reductions from the project under Option 1. <i>Capital Regional District, District of Central Saanich, City of Colwood, Town of Esquimalt, District of Highlands, City of Langford, District of Metchosin, District of North Saanich, District of Oak Bay, District of Saanich, Town of Sidney, District of Sooke, City of Victoria, Town of View Royal, and the Islands Trust.</i>
Project Designate appointed to sign off on Project Plan	Provide the name, phone and e-mail of the Project Designate duly authorized and having the legal capacity to sign off on this Template (e.g., CAO, CFO) Name: Nelson Chan Title: Chief Financial Officer Phone: 250-360-3645 Email: nchan@crd.bc.ca
Project Contact	Provide a Project Contact name if different from above Name: Amanda Broad Title: Climate Action Program Coordinator (Acting) Phone: 250.360.3048 Email: abroad@crd.bc.ca
Project Information	
Project title	Provide project title Organic Waste Composting Project
Option 1 Project Profile	Confirm which Option 1 project and project profile you are implementing. Check only one per Project Plan Template submitted: <input type="checkbox"/> Project 1A: Low Emission Vehicles <input type="checkbox"/> Project 1B: Energy Efficient Building Retrofits and Fuel Switching <input type="checkbox"/> Project 1C: Solar Thermal <input checked="" type="checkbox"/> Project 1D: Household Organic Waste Composting <input type="checkbox"/> Project 1E: Avoided Forest Conversion Project (AFCP)
Project description and objectives	Briefly summarize the project in terms of what, where, how when and why (max 4-5 sentences or bullets). <ul style="list-style-type: none"> - The CRD has implemented a kitchen scraps waste diversion program on behalf of the region. - In 2013, the CRD implemented an incentive program to encourage residents and businesses to divert their kitchen scraps from the landfill. The haulers have been notified of the CRD's intention to claim the credits. - Approximately 6655 tonnes of additional kitchen scraps were diverted from the industrial, commercial, institutional, and private residential sector in 2016.
Project co-benefits (Optional)	Beyond the reducing GHG emissions, describe any anticipated community and/or sustainability co-benefits that this project will provide (e.g., energy cost savings, stimulation of the local economy through green job growth, foster technological innovation, raise public awareness of climate change/energy conservation) <ul style="list-style-type: none"> - Raise public awareness of climate change and waste diversion. - Reduces amount of waste entering landfill, saving space. - Allows for better end use products of kitchen scraps (i.e. compost, soil amenders, etc.)
Project start date	Indicate the project start date: January 2013



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File: 5220-20
Greenhouse Gas Credits

Organics Waste Diversion (Project Profile 1D)

Project Transparency: Accountability and Reporting	
Scope	<input checked="" type="checkbox"/> The Project Designate certifies that the project outlined in this Project Plan is outside the LG (local government) corporate emissions boundary (as defined in the Carbon Neutral Workbook), within the local government's jurisdiction and BC, as per the Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook.
Counted Once	<input checked="" type="checkbox"/> The GHG reductions claimed from this project under the Carbon Neutral Framework have not been, and will not be, committed or sold as an emission reduction under any other alternate emission-offset scheme, as per the Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook.
Measurement (For Project 1E: AFCPs only) Not Applicable	<input type="checkbox"/> The Project Designate certifies that in the case of a Project 1E: Avoided Forest Conversion Project (AFCP) the eligible projects lands are owned by the local government and have been reserved or dedicated as park under section 30 of the <i>Community Charter</i> after the initial signing of the Climate Action Charter in 2007, and that a Forest Management Plan, to be updated every 10 years or more frequently, must be in place within six months of making public the first completed annual Self-Certification Template.
Ownership	<input checked="" type="checkbox"/> The local government proponent(s) claiming emission reductions from the Option 1 project outlined in this Project Plan have exclusive right to the legal and commercial benefits that arise from the GHG reductions from the Option 1 project, as per the Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook.
Verification	<input checked="" type="checkbox"/> The Project Designate understands that he/she will be required to sign off the annual Verification Template Report for this project to verify that the estimated GHG reductions from this project actually occurred during the year in which they will be claimed, as per the Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook.
BAU	<input checked="" type="checkbox"/> The Project Designate certifies that the Project meets Beyond Business as Usual (BAU) requirements a , b and c as per the GCC Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook. If the Project referred to in this Project Plan is an Option 1, Avoided Forest Conversion Project, the Project Designates certifies that in addition, the AFCP meets criteria "d" of the BAU requirements.
Reports	<input checked="" type="checkbox"/> The Project Designate, is aware of the public reporting requirements under the Climate Action Revenue Incentive Program (CARIP) and that after January 1, 2012, the CARIP reports will be revised to include information on total annual corporate emissions , the reductions being claimed from GHG projects undertaken under the Carbon Neutral Framework (Option 1 and 2) , and purchased offsets (Option 3) in order demonstrate carbon neutrality for any given year, as the Project Eligibility Requirements outlined in Appendix 1 of the <i>Becoming Carbon Neutral</i> guidebook.
Project Plan: Authorization and Sign Off	
<u>Project Designate</u> The information provided in this Project Plan, including the accountability and reporting requirements, is to the best of my knowledge correct and complete.	
 _____ Designate Signature	<u>Apr. 19, 2007</u> _____ Date
Title: Chief Financial Officer	