

# CNG SUMMARY ANALYTICS & SMARTTool Replacement Update

# CARBON NEUTRAL GOVERNMENT TEAM

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**Policy Analyst**  
(Julia Berry)



**Project Coordinator**  
(Binaipal Gill)



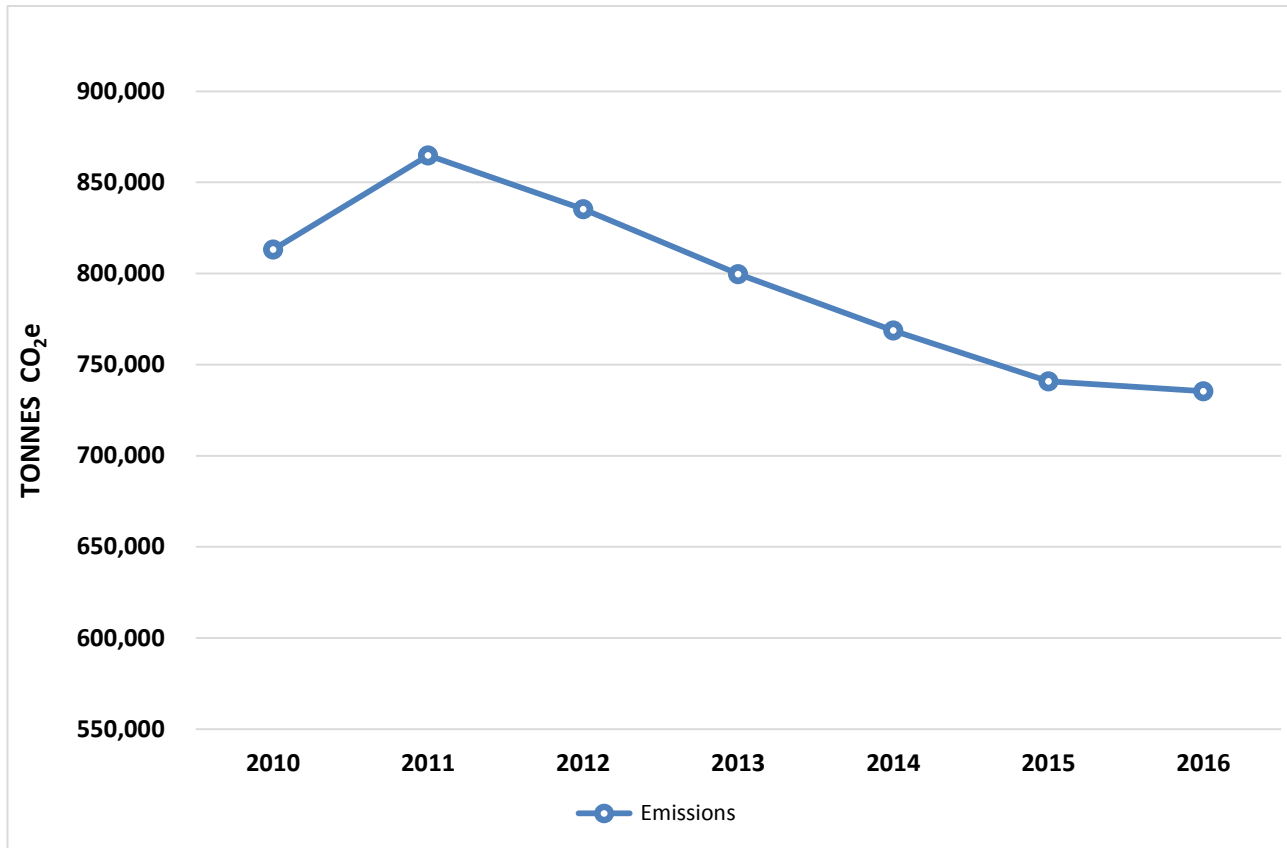
**IMB Portfolio Mgr**  
(Stuart Hall)

**SMARTTool  
Contractor**

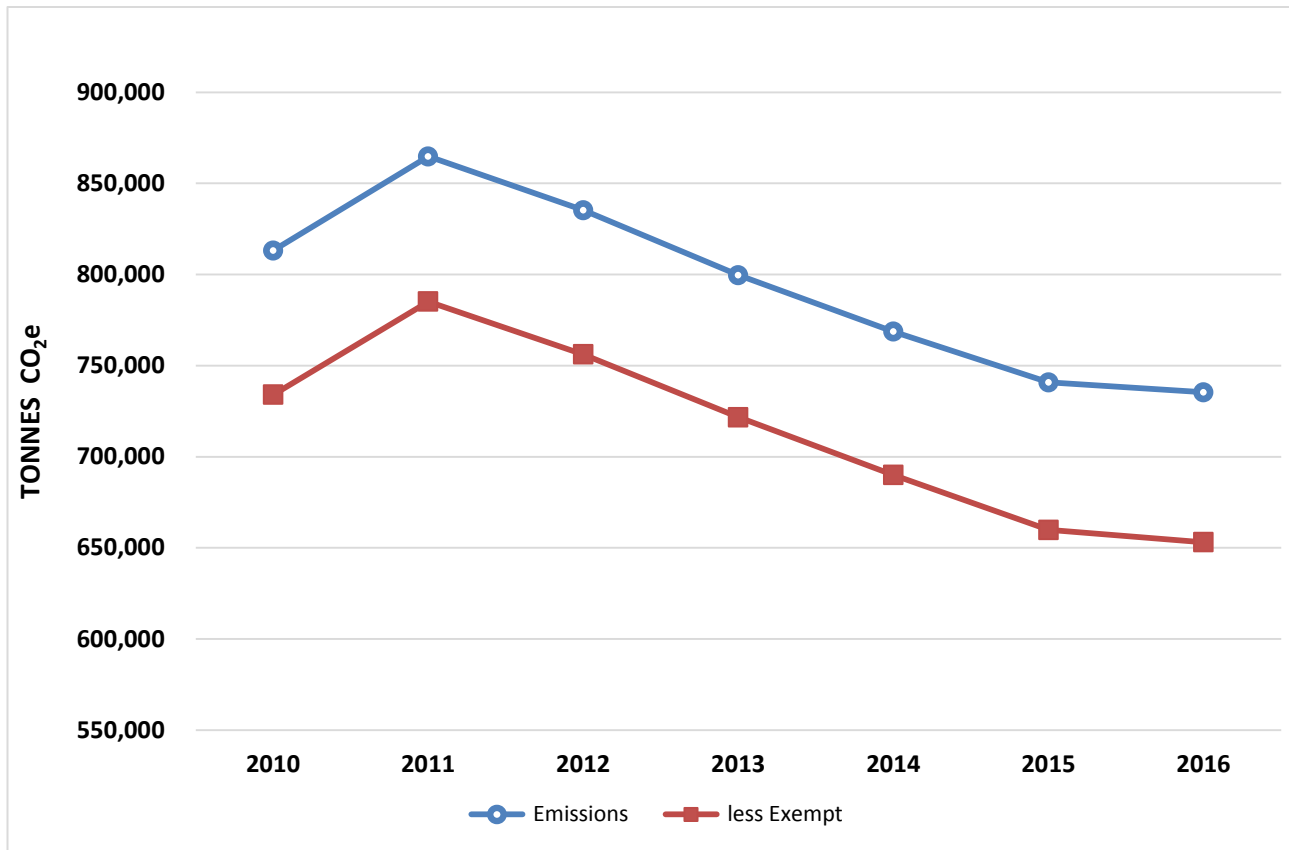


# CNG Summary Analytics 2010 - 2016

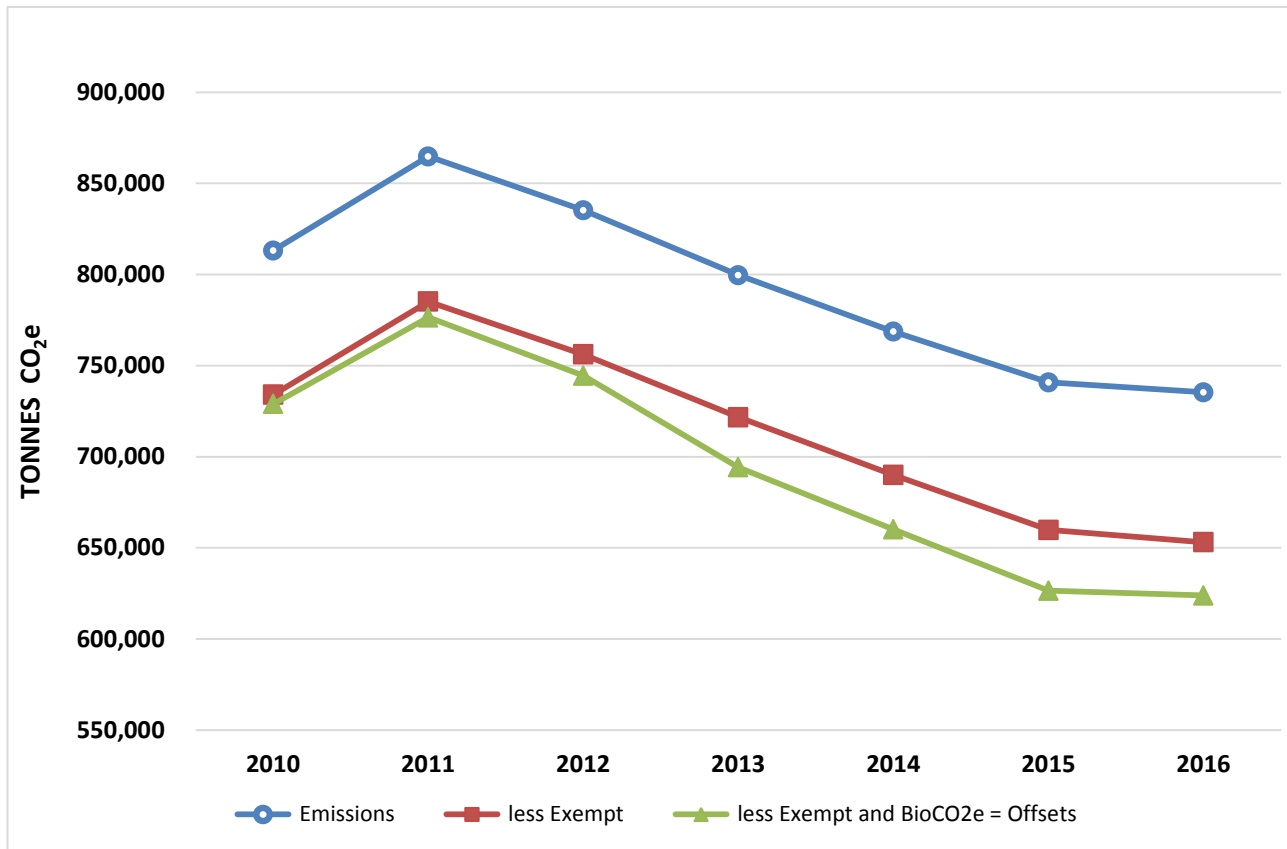
# Government Reporting Entity



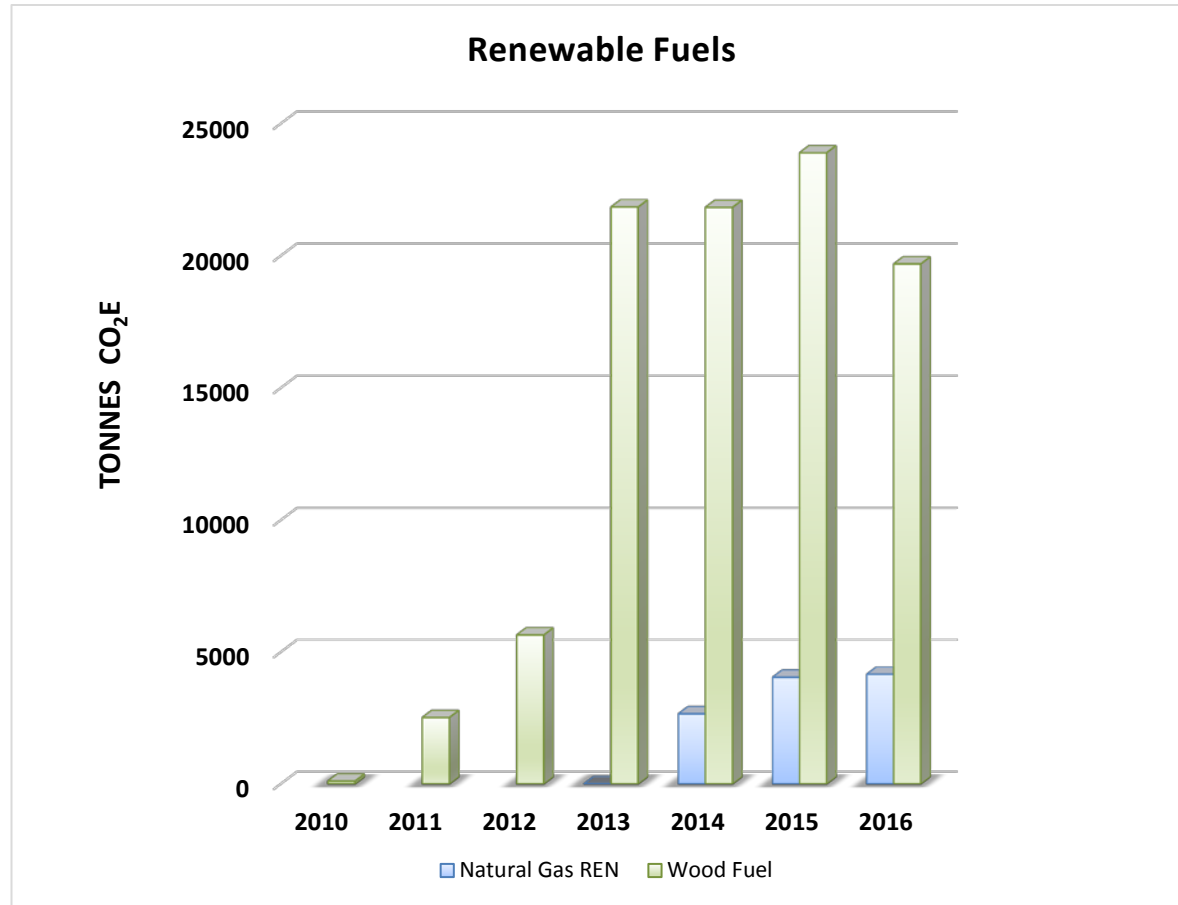
# Government Reporting Entity



# Government Reporting Entity

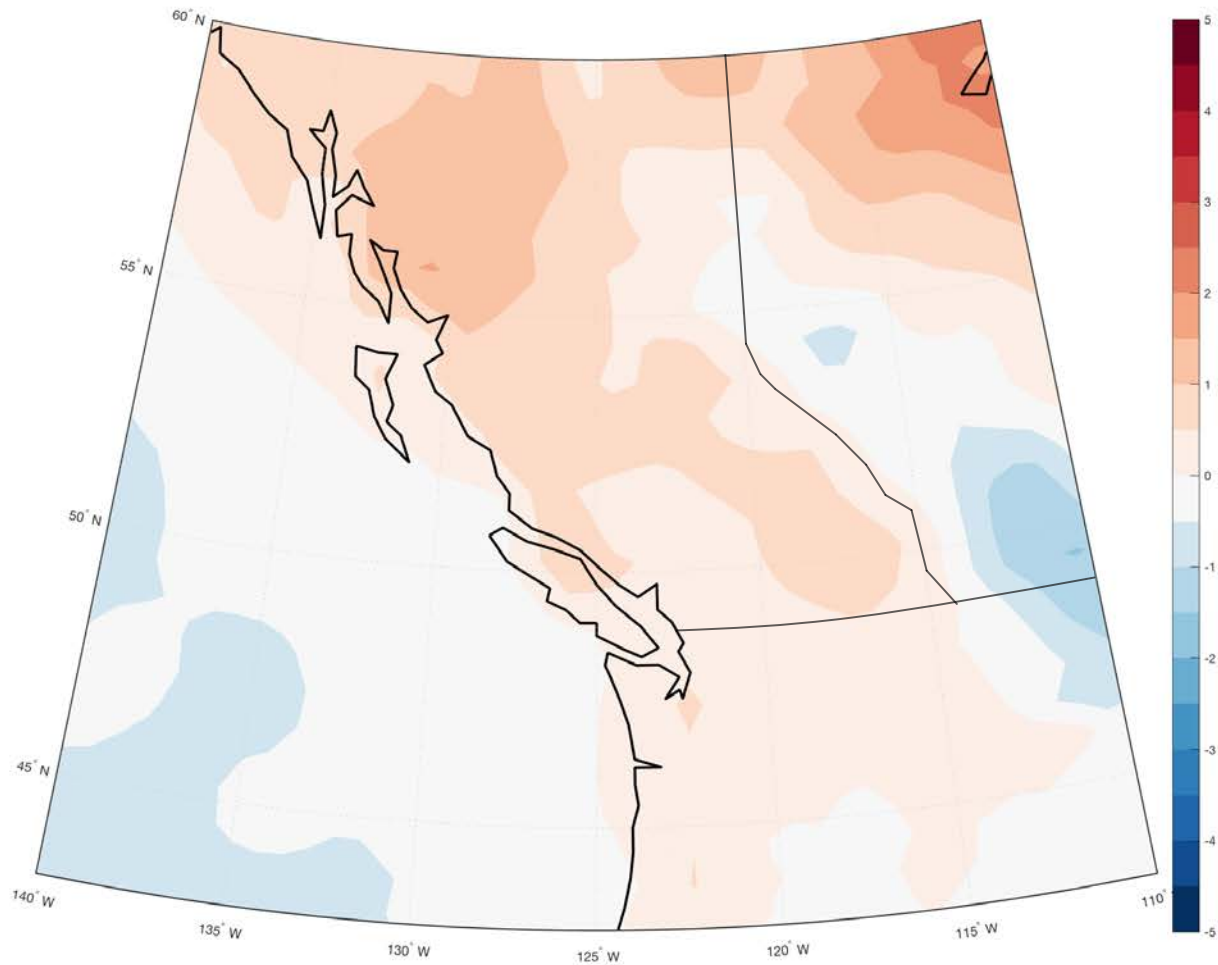


# Government Reporting Entity

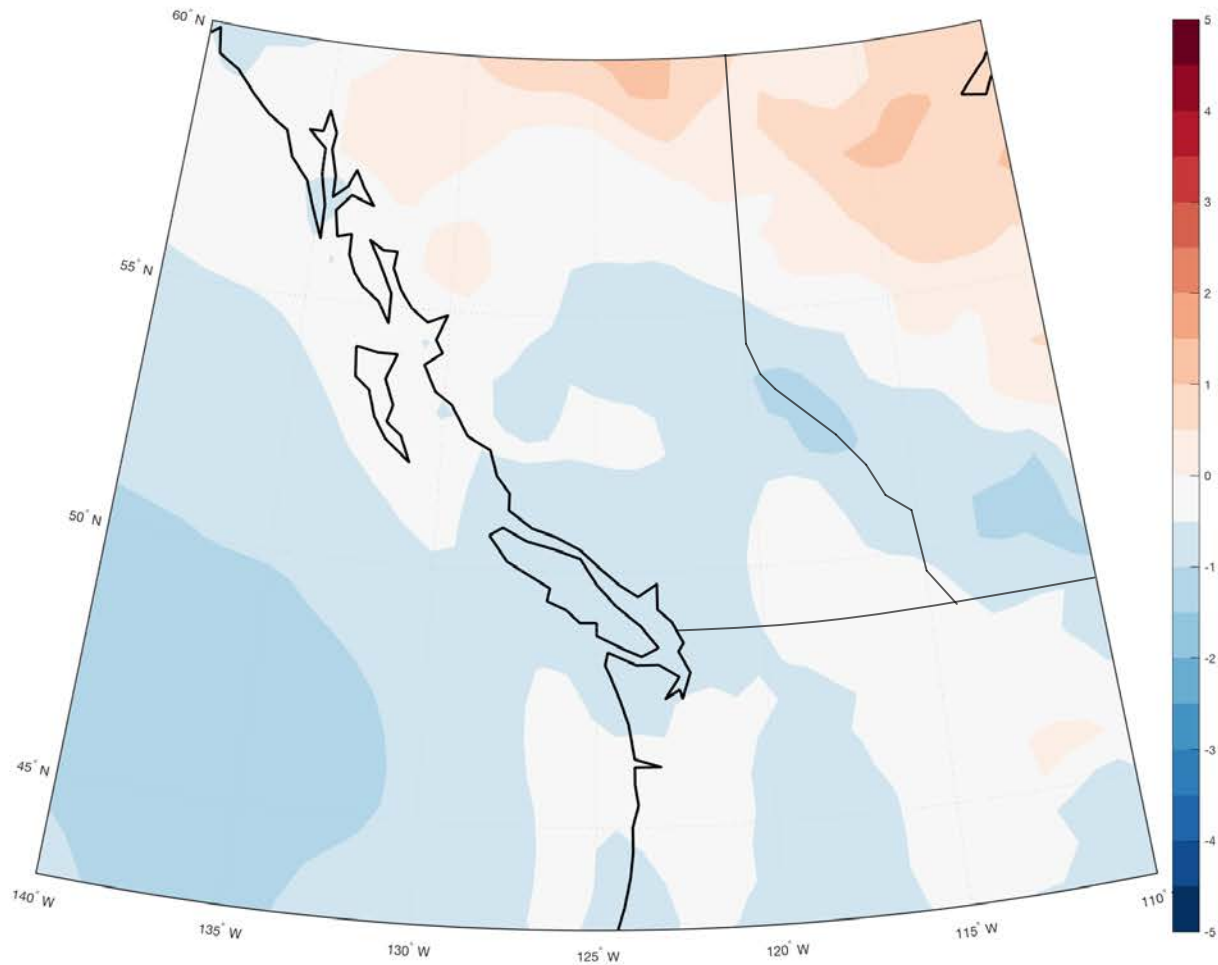


# Contribution of Weather

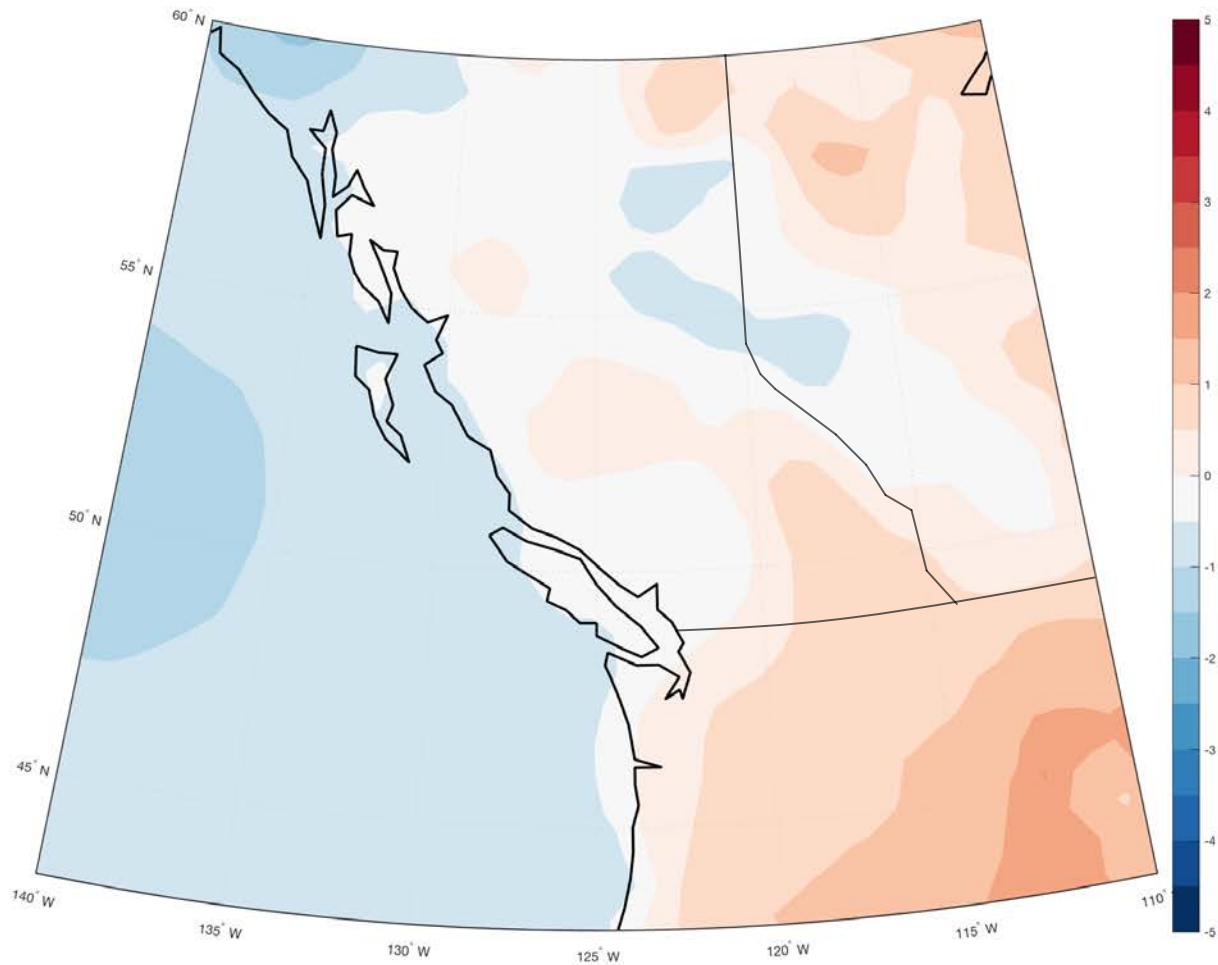
# Temperature Anomaly (°C) 2010



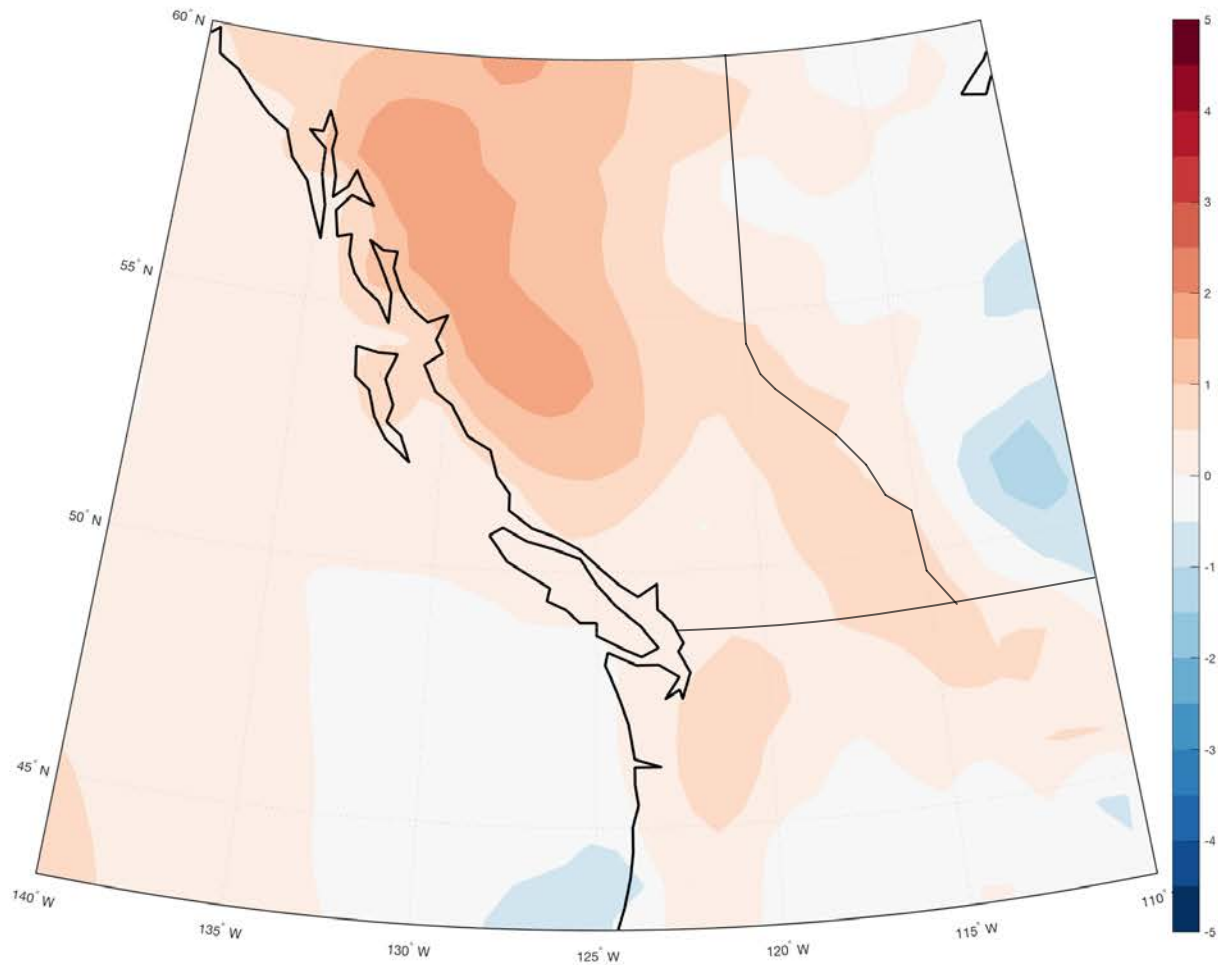
# Temperature Anomaly (°C) 2011



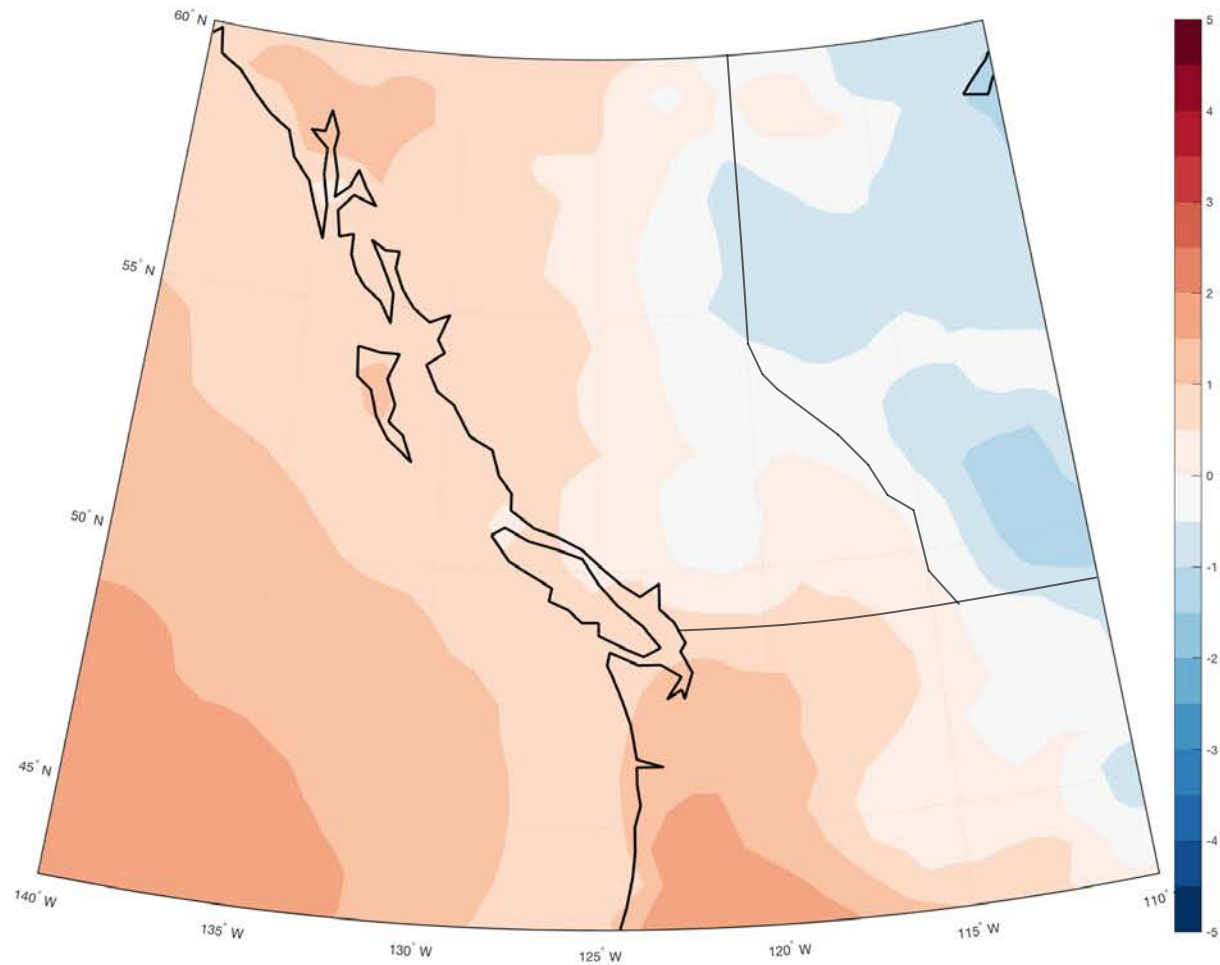
# Temperature Anomaly (°C) 2012



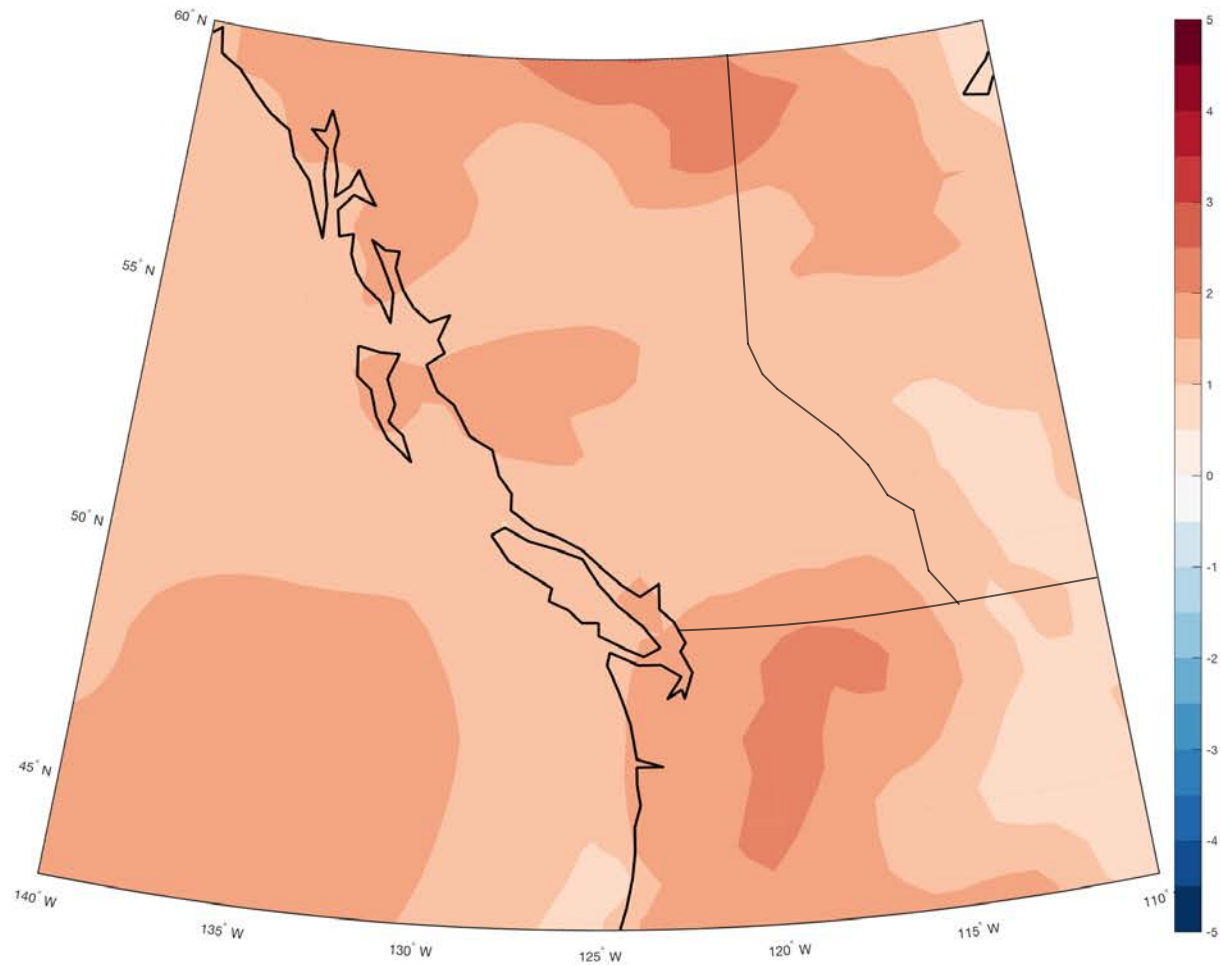
# Temperature Anomaly (°C) 2013



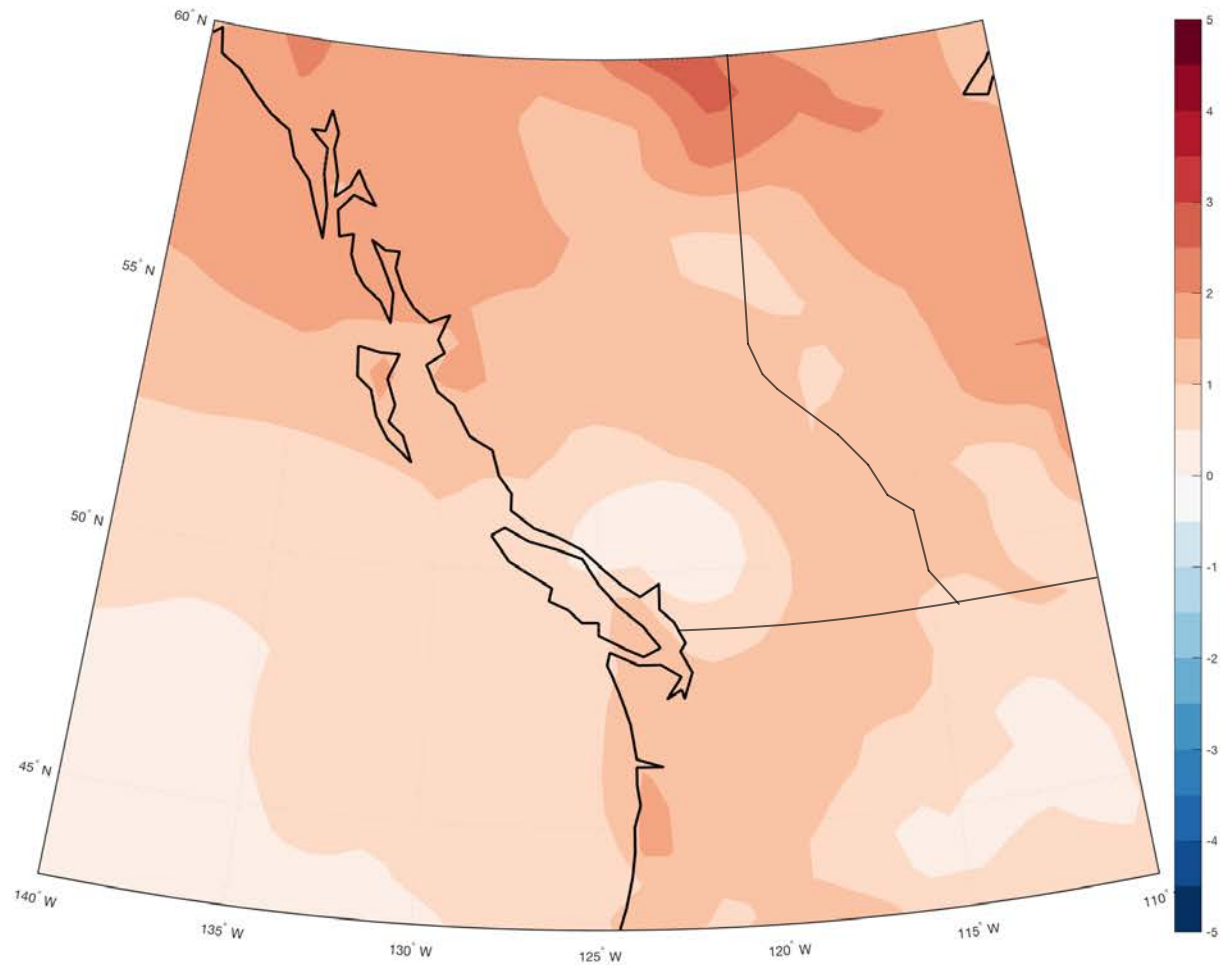
# Temperature Anomaly (°C) 2014



# Temperature Anomaly (°C) 2015

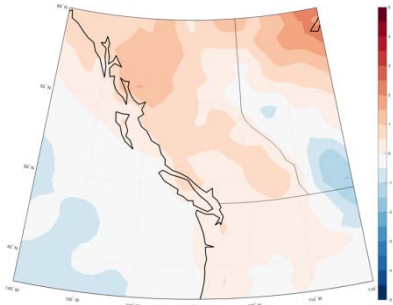


# Temperature Anomaly (°C) 2016

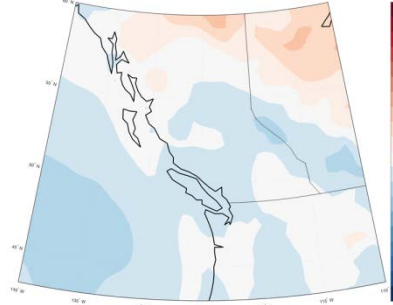


# Temperature Anomalies (°C) 2010-2016

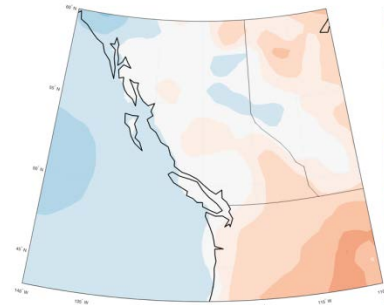
2010



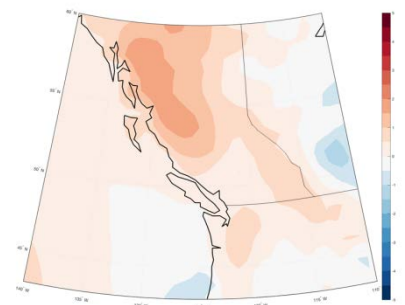
2011



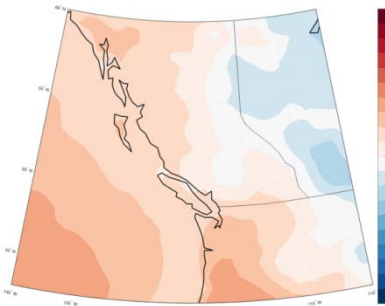
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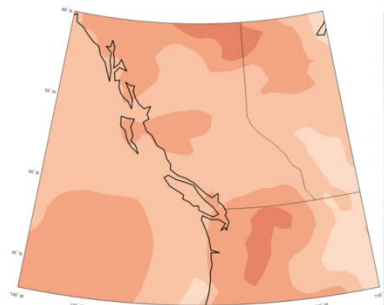
2013



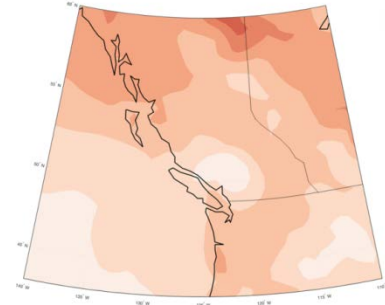
2014



2015

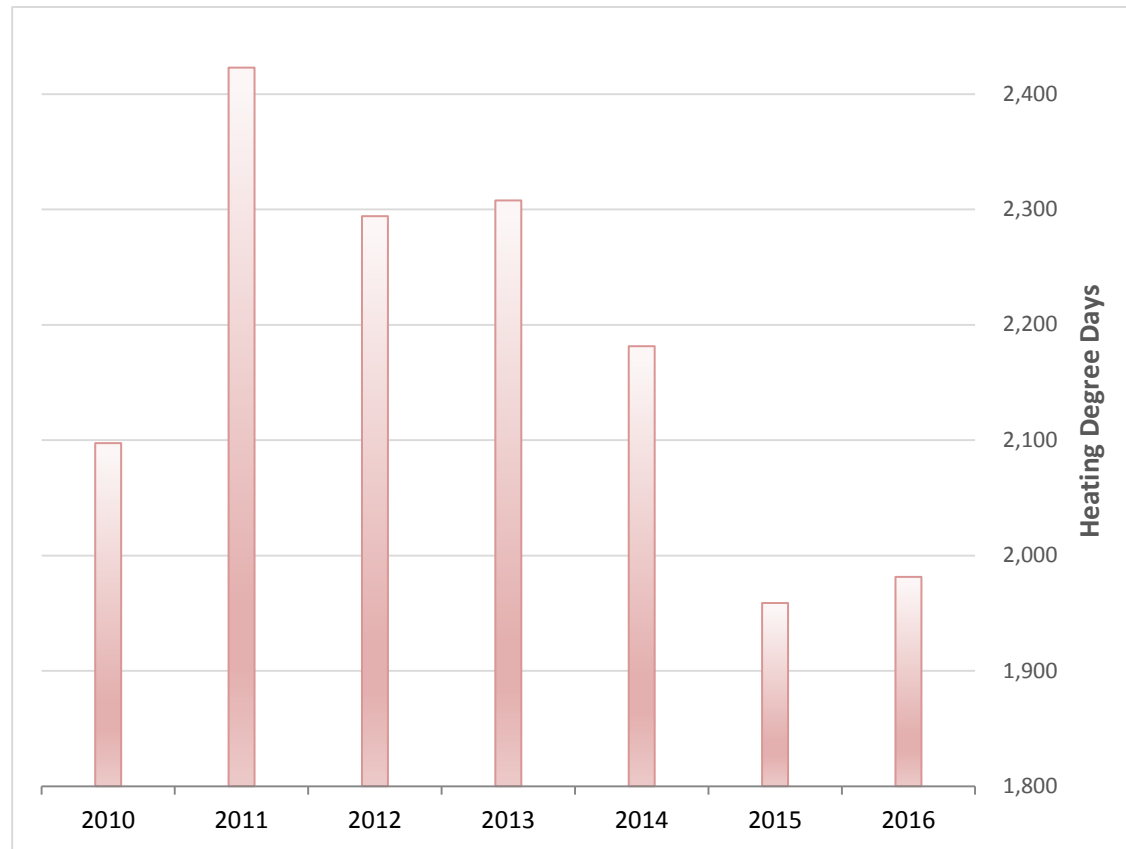


2016



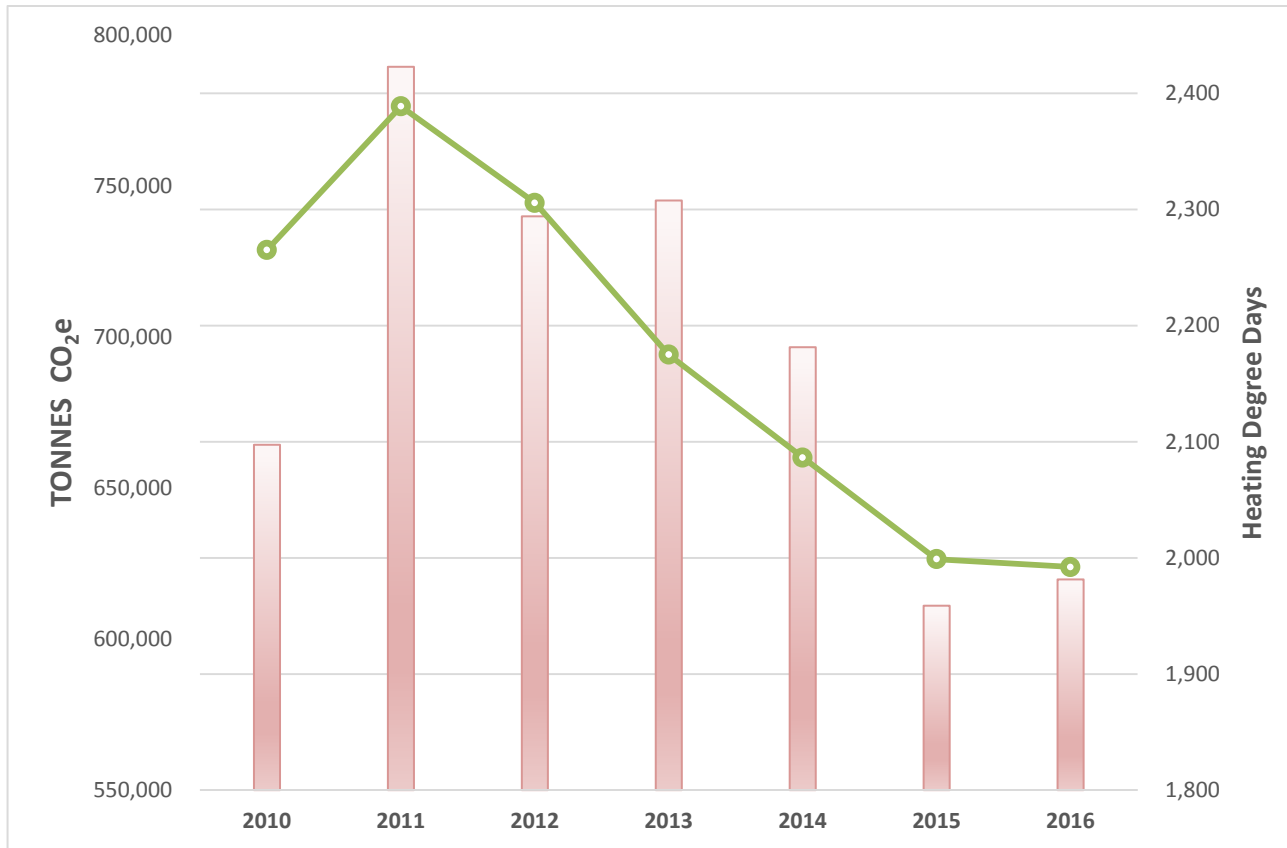
# Heating Degree Days

BC Average



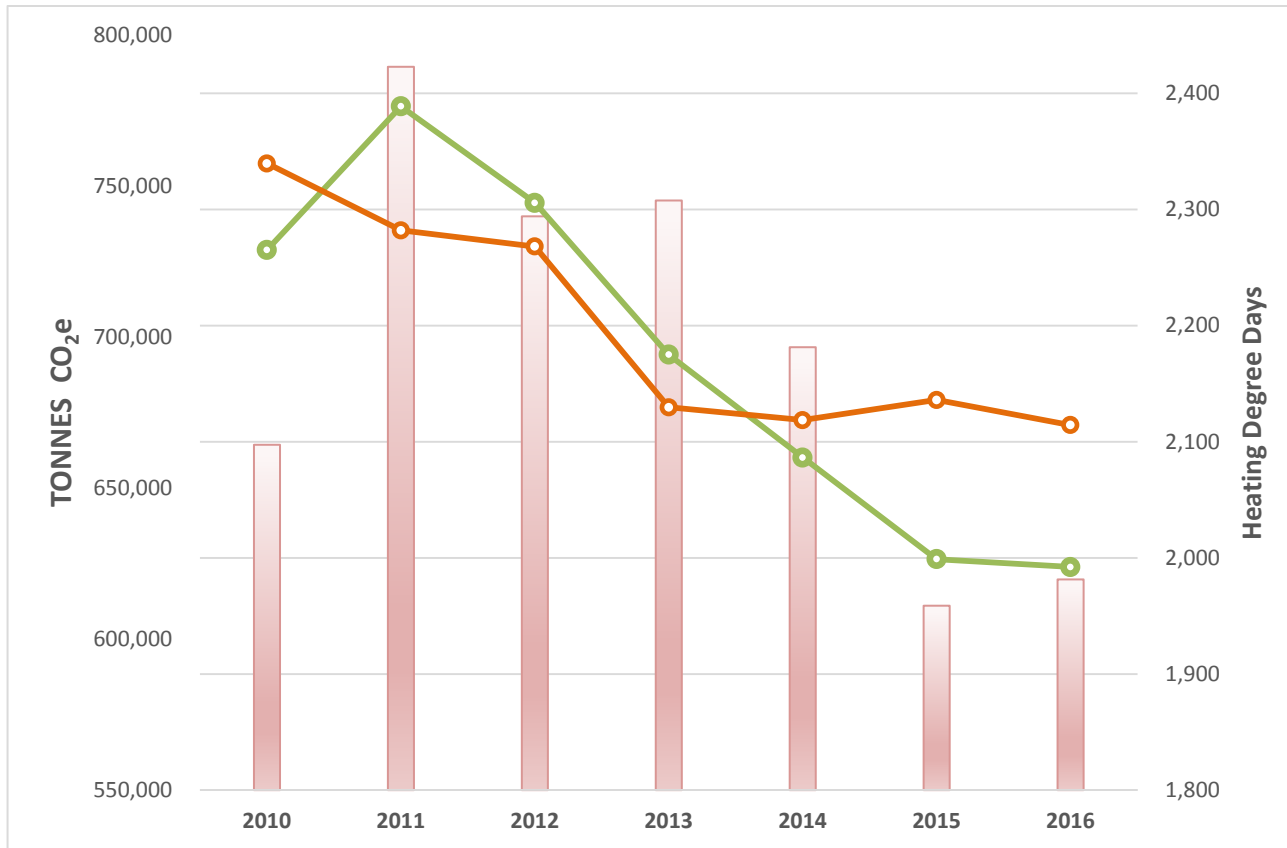
# Heating Degree Days

## BC Average



# Heating Degree Days

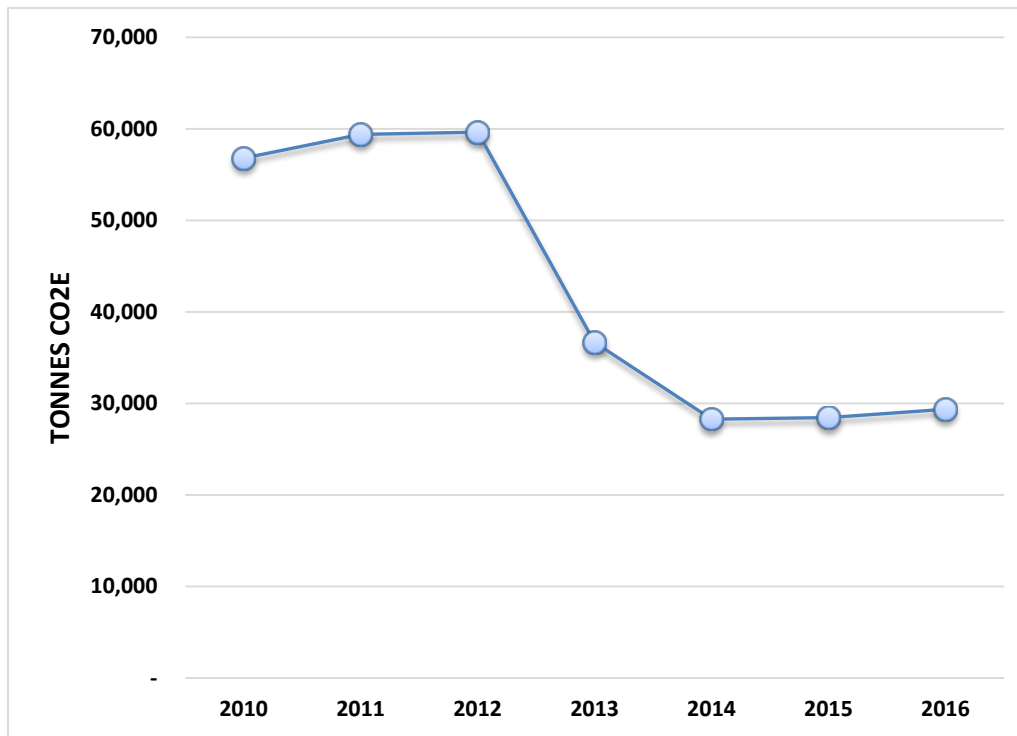
## BC Average



# Contribution of Cleaner Grid Energy

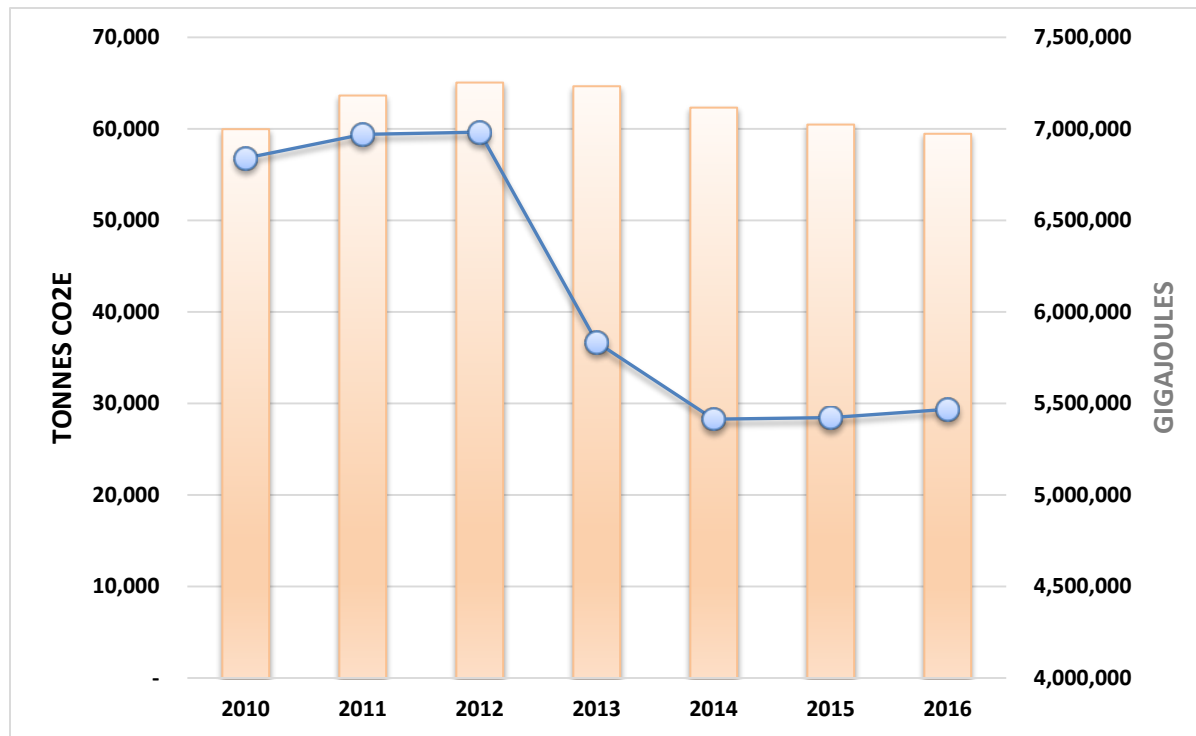
# Government Reporting Entity

## Electricity – Offsets

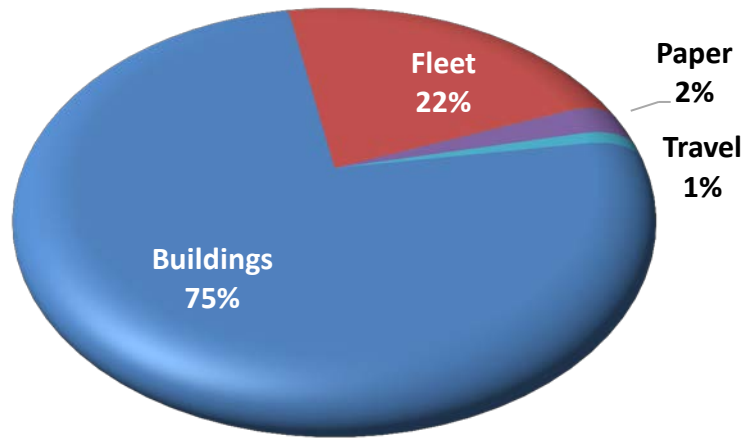


# Government Reporting Entity

## Electricity – Offsets and Consumption

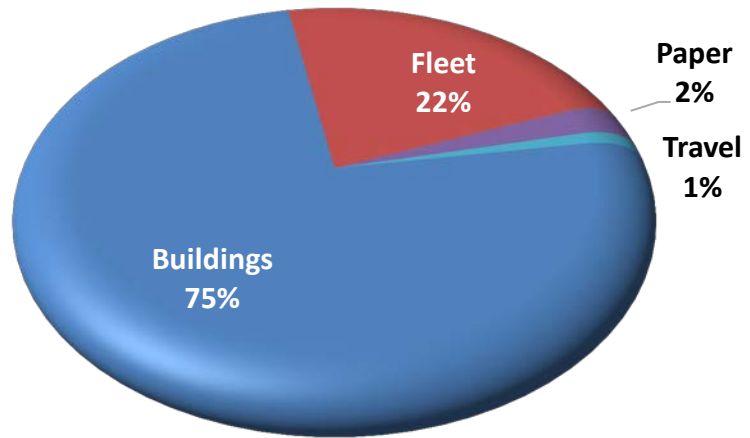


# Government Reporting Entity

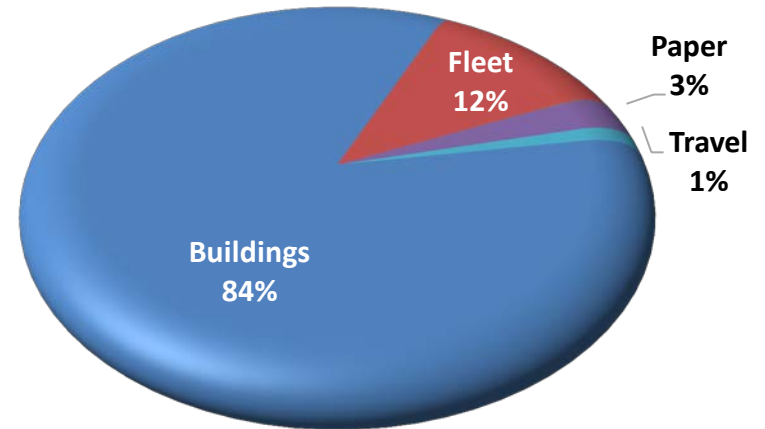


**EMISSIONS**

# Government Reporting Entity

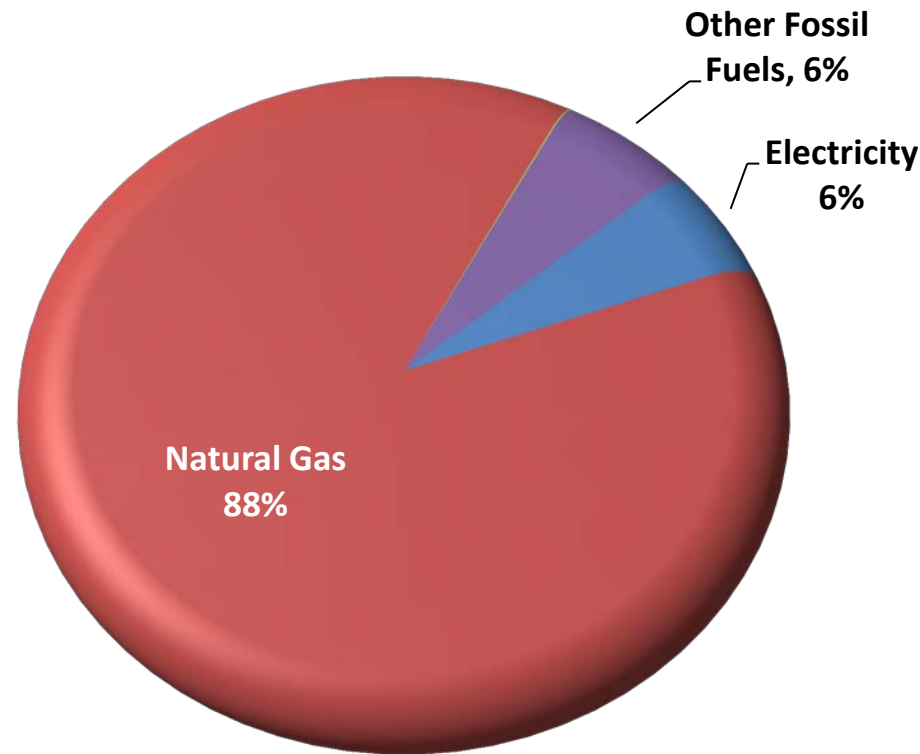


**EMISSIONS**



**OFFSETS**

# Government Reporting Entity Electricity as % of Building Offsets



**BUILDINGS**

# SMARTTool Replacement

# New Carbon Measurement and Reporting Tool

- Transitioning from SMARTTool
- Finished an initial pilot phase of the new tool
- Continue to load 2017 data in SMARTTool



**SMARTTool  
2.0**

# General Usability and Layout

The image shows a navigation menu for a web application. The menu is organized into five main categories: DATA ENTRY, ANALYTICS, SETUP, ADMINISTRATION, and HELP. Each category has a dropdown menu with various sub-items. The 'ANALYTICS' dropdown is currently open, showing 'New Analytic', 'Intelligence Center', and 'Data Exporter'. The 'SETUP' dropdown is also open, showing 'Collection Periods', 'Units', 'Sites', 'Positions', 'Questionnaires', 'Tags', 'Message scheduler', and 'Custom Fields'. The 'ADMINISTRATION' dropdown shows 'Users'. The 'HELP' dropdown shows 'Help' and 'Learning Center'. The 'DATA ENTRY' dropdown shows 'Data Acquisition' and 'File Importer'. The 'BRITISH COLUMBIA' logo is visible in the top left corner of the navigation bar. A 'Welcome' message is partially visible on the left side of the page.

DATA ENTRY	ANALYTICS	SETUP	ADMINISTRATION	HELP
Data Acquisition File Importer	New Analytic Intelligence Center Data Exporter	Collection Periods Units Sites Positions Questionnaires Tags Message scheduler Custom Fields	Users	Help Learning Center

# Configuration of Organization

The screenshot shows the 'Setup / Sites' page in the system. A table lists various school districts. A context menu is open over the 'School District 62 - Sooke' entry, showing options like 'New', 'Show', 'Edit', 'Delete', 'Adjust term', 'New revision', 'End revision', 'Cut', 'Copy', 'Paste', and 'Paste with date'.

Name	Term	Data acqui...	Legal Name
School Districts			
School District 62 - Sooke			
Elementary Schools			
Colwood Elementary			
Crystal View Elementary			
demo site 2			
David Cameron Elementary			
Glenlake Elementary - Closed			
Hans Helgesen Elementary			
BCHYDRO-7960863			
BCHYDRO-99907302552			
Happy Valley Elementary			
John Muir Elementary			
FORTIS-P-917272			
FORTIS-P-917273			
John Stubbs Memorial Elementary			
Lakewood Elementary			

The screenshot shows the configuration page for 'Colwood Elementary'. It features a map of the region and a list of site details. The site is identified as 'Colwood Elementary' under the 'Elementary Schools' category. The map shows the location near Vancouver, BC. The site details include various utility and identification numbers.

**Colwood Elementary**  
Elementary Schools

Info Questionnaires

Offsettable Education SD62

<u>Sorting level</u>	47580
Gas Utility POD Account	916558
Electricity Utility Account	2559687
Utility Address/s	3000 Wishart Road, Victoria BC V9C 1P4
Electricity Provider	BC Hydro
RU_ID	30796
Gross Floor Area	2,403 m <sup>2</sup>

Additional information

# Data Loading


## On-Screen

Questions for **all months** in **2016**  
- Building - Electricity - ⓘ  
for Site **Colwood Elementary**

Energy Inventory → Stationary Energy Use → Purchased Energy → Purchased Energy → Electricity

	Details	Value	Unit	Supplier	Acco
January	⋮	75	kWh		
February	⋮		kWh		
March	⋮		kWh		
April	⋮		kWh		
May	⋮		kWh		
June	⋮		kWh		
July	⋮		kWh		
August	⋮		kWh		
September	⋮		kWh		
October	⋮		kWh		
November	⋮		kWh		
December	⋮		kWh		

## Template



01/2016...12/2016 - Building - Electricity (Colwood Elementary)

Positions Included:

- Electricity
- Energy Inventory
- Stationary Energy Use
- Purchased Energy
- Purchased Energy
- Electricity

	Value	Unit	Supplier	Account # / POD	# of Days	Loading M
January	75	kWh				
February		kWh				
March		kWh				
April		kWh				
May		kWh				
June		kWh				
July		kWh				
August		kWh				
September		kWh				
October		kWh				
November		kWh				
December		kWh				

export created 01.12.2017 12:01

# Data Loading

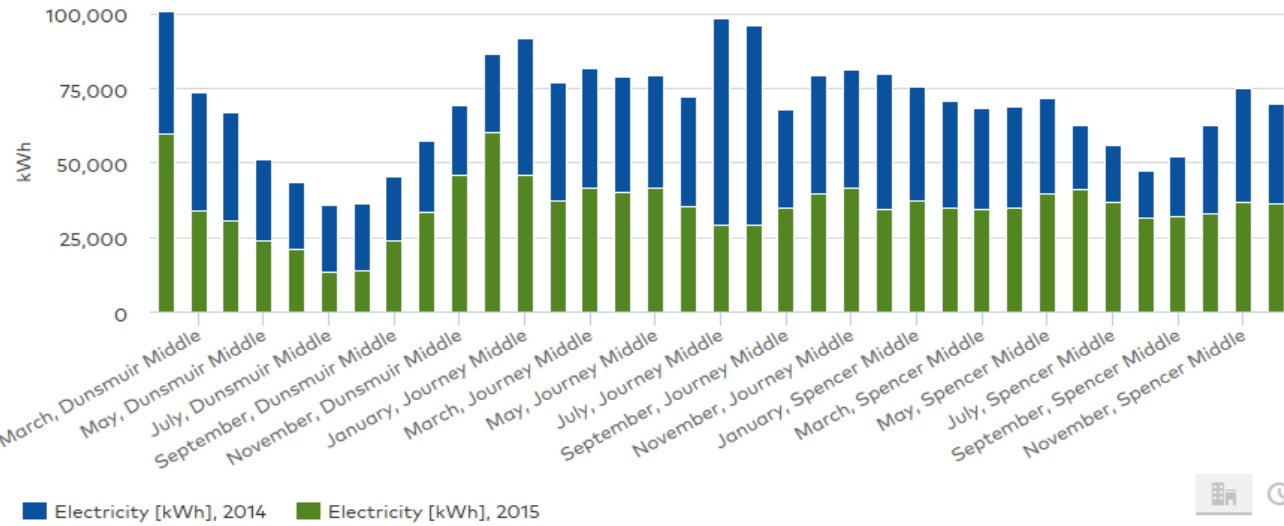
The screenshot displays the British Columbia Data Entry system interface. The top navigation bar includes 'DATA ENTRY', 'ANALYTICS', 'SETUP', 'ADMINISTRATION', and 'HELP'. The 'Data Acquisition' dropdown menu is open, with 'File Importer' highlighted in a red circle. The main content area shows a list of data entry items for the year 2016, including 'School District 62 - Sooke' and 'Elementary Schools'. An 'Upload a file to import' dialog box is overlaid on the right, showing a file named 'ElectricityConsumptionData.xlsx' (8.5 KB) with an 'Upload' button.

# EDX 2.0 and Energy \* Benchmarking



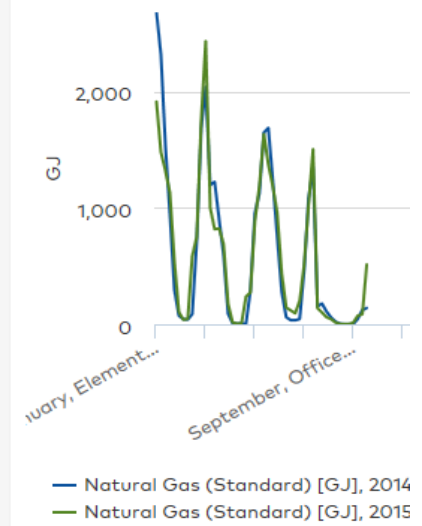
### Electricity Annual Overview

School District 62 - Sooke > Middle Schools



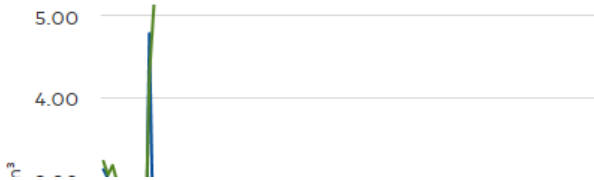
### Natural Gas Annual Overview

School District 62 - Sooke



### Propane Annual Overview

School District 62 - Sooke



### Fuel Oil Annual Overview



# SMARTTool Replacement - Next Steps

- Continue configuration
- Testing, testing, and testing
- Migrate data
- QAQC / more testing!
- Onboard clients & training (Summer 2018)

