

Climate Change Showdown 2010/11 Final Report-City of Surrey

By: Renate Sitch, Program Manager

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Thanks to the generous support of \$10,000 from the City of Surrey, the BCSEA was able to deliver the Climate Change Showdown (CCS) to elementary schools across the region during the 2010/11school year. The funding covered delivery of 29 workshops in the City. This support has also attracted vital support from other municipalities.

The CCS program took a fun-filled 80-minute workshop into the classroom to educate students on climate change and energy conservation. Grade 4 to 7 students and their teachers were engaged with a 20-minute animated video, traveling to the future in a time machine to imagine positive and negative futures based on current actions, and the BCSEA-designed climate change board game. After being educated about climate change, the students took home the Climate Change Showdown Contest and worked with their parents for four weeks to reduce their greenhouse gas emissions (GHGs).

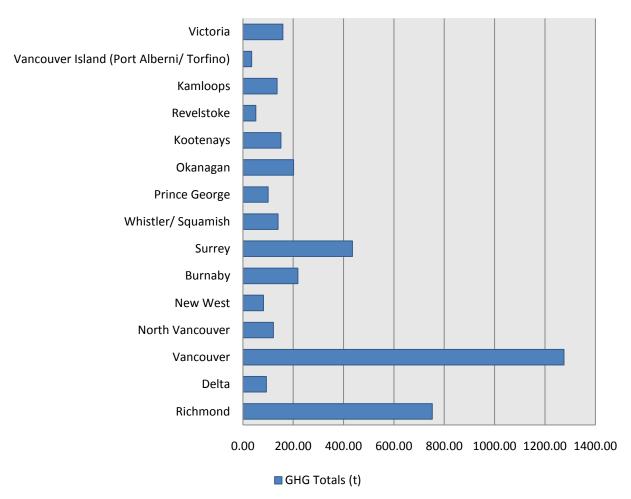
Results

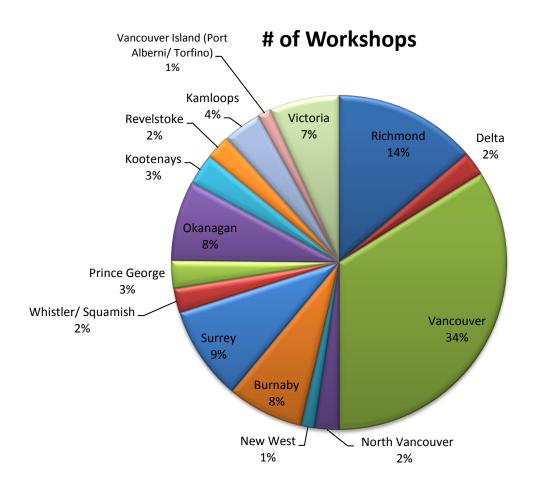
The BCSEA delivered **298** Climate Change Showdown workshops to **7,650** students in schools in B.C. from November 2010 to May 2011 as follows:

		# Students	
	# of	that received	GHGs (t)
CCS 20010/11 City/Region	Workshops	Workshops	Reductions
Richmond	41	1116	752.36
Delta	7	181	93.58
Vancouver	101	2706	1275.91
North Vancouver	7	189	121.44
New Westminster	4	108	82.23
Burnaby	22	584	218.77
Surrey	27	671	435.80
Whistler/ Squamish	7	184	139.91
Prince George	8	213	100.58
Okanagan	23	532	201.58
Kootenays	9	217	151.63
Revelstoke	7	168	51.79
Kamloops	11	173	136.26
Vancouver Island (Port			
Alberni/ Tofino)	4	117	35.14
Victoria	20	491	158.78
TOTALS	298	7650	3955.75



GHG Totals (t)





Comparison of Results

Annual Totals	# of Workshops	# of Students that Received Workshops	Contest Return Rate	% Classes Returning Contests	Contest GHGs (t)	GHGs surveys (t)	Total GHGs saved (t)	GHGs saved (t/student)	GHGs Saved (t/ contest participant)
2010/11	298	7650	29.9%	62%	3955.75	N/A	3955.8	0.52	1.73
2009/10	340	9414	31.5%	63%	5070.00	2324	7394	0.78	N/A
2008/09	609	14,665	23.7%	53%	3944.00	7238	11230	0.77	N/A
2007/08	555	14002	20.8%	N/A	N/A	N/A	9815.2	0.70	N/A
2006/07	77	2,000	N/A	N/A	N/A	N/A	1150	0.58	N/A
Program Totals	1879	47731			12969.75		33545	0.67	1.73



Surrey-Climate Change Showdown Workshops					
School Name	Teacher Name	Grade			
David Brankin	Cristina McQuaig	4,5			
David Brankin	Emily Pitman	4,5			
Morgan	Tracy Majhen	5			
Morgan	Terianne Carmicheal	6			
Morgan	Diane Jones	5,6			
Betty Huff	Roxanne Koebel	5,6			
Betty Huff	Nikki Aulin	6			
Betty Huff	Erin Ladd	6			
Semiahmoo Trail	Janet Oakes	5			
Holly	Tamara Michalas	5			
Holly	Terry Symonds	5			
Green Timbers	Wendy Kaland	5			
Green Timbers	Colleen Romano	5			
Green Timbers	Amany Dhaliwal	4,5			
Mary Jane Shannon	Jess Kyle	6,7			
Mary Jane Shannon	Cheryl Coabert	5,6			
Erma Stephenson	Mark Vilio	5			
Erma Stephenson	Lisa Warnock	5			
Fraserwood	Ed Stringer	6			
Fraserwood	Susan Yip	6			
Fraserwood	Caryn Barlow	5,6			
Harold Bishop	Ryan Howett/Redekop	5			
Harold Bishop	Michelle Loewen	5,6			
Harold Bishop	Marnie Moro	5			
White Rock Elementary	Amanda Wardrop	7			
White Rock Elementary	Elizabeth McDonald	7			
White Rock Elementary	Gioia Breda	7			







Photo's:
Top to bottom: Top Students
with Mayor Dianne Watts.
(left) Winning Classes:
Terianne Carmicheal & Tracy
Majhen's classes at Morgan
Elementary.

Measuring Green House Gas Reductions

The GHG savings for the program were calculated using only the contest forms this year. Due to some feedback from stakeholders as well as some concerns around validity we are not using the post surveys to measure additional ghg's going forward. This doesn't mean that the results aren't the same, but we're not going to claim these as our total ghg savings.

CC Showdown Contest Forms: this measurement tool is an action-based contest that
awarded points to students who completed actions related to energy saving and
education over a four week period (as verified by their parent's signatures). Using GHG
factors, both calculated and referenced from the federal government's One Tonne
Challenge for each action, a database was used to capture and calculate the predicted
annual savings of each student who participated in the contest.

Contest Actions and Electrical/GHG Savings

Besides GHG reductions, a number of the actions directly affected electricity use and are listed here:

- 7,449 incandescent light bulbs were replaced with CFLs
- 857 low-flow, energy saving shower heads were installed
- 1,488 homes turned down the thermostat at least one night per week (for 4 weeks)
- 1,561 turned off or unplugged electronics
- 1,722 tried washing clothes in cold water

To engage the students, there was space to add their own energy saving ideas; 763 were submitted and the top ones will be posted here by July 29th: http://www.bcsea.org/ccshowdown

The overall provincial contest participation rate was 29.9%. The percentage of classes that returned some contests was 62%. From a greenhouse gas perspective, the program reduced C02 emissions by over 3955.75 tonnes, the equivalent of taking 664 cars off the road for a year, the use of electricity for 1,641 homes for a year, and the equivalent of carbon sequestration of 2,806 acres of pine or forests.

Rewarding Showdown Participants

For the winning classes that achieved the highest average of GHG's in each region a Pizza Party was organized and sourced from locally owned businesses were feasible. Additional prizes for top student prizes included: Green Science toys, LUSH sustainable bath products, worm compost bins, plants, re-usable bags, Green Zebra books and various regional donated prizes and gift certificates. The City of Surrey generously donated a new bike for the top student, gift certificates for a local bike shop for the 2nd place students, and the funds to cover the class pizza parties. Teachers played a key part in motivating students and those with high class participation rates received thank-you cards and incentive prizes.



Looking Forward

With five successful years of the Climate Change Showdown, we are happy with our success and grateful for the funding from our supporters who have made it all possible. In an effort to ensure future success and growth the program staff and advisory committee hosted a strategic planning session on July 6th, 2011, to assess the program and prioritize some needed enhancements for the short and long term. Much of the feedback collected from stakeholders was taken into consideration while formatting the session and program resources and timelines will be carefully considered when determining modifications to the program. We will be working on this over the summer and will keep you up to date with any modifications that would affect future funding. We may request your time for a quick review of the current contest form as we realize modifications could be beneficial while still bringing in GHG reductions. We're very excited to be redeveloping the program and will continue to schedule time and resources when available for future improvements.

Recognition of Surrey's Support

The City of Surrey was acknowledged for their support of the Climate Change Showdown as follows:

- Surrey was featured as a funder on the Climate Change Contest form taken home by all students
- A Surrey logo (hyperlink to Surrey website) and name on the sponsor's page of BCSEA website (www.bcsea.org/ccshowdown)
- The Surrey logo was placed on Climate Change Game boards used in classroom workshops
- Surrey was recognized with energy saving actions on the contest form

The BCSEA would like to thank The City of Surrey for its partnership in achieving the shared goals of increasing awareness and behaviours related to energy conservation among students and their families.

Thank-you, we look forward to an improved program for 2011/12 and beyond!

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