





# **Final Report**

2023-24



## **Executive summary**

During the 2023/24 school year, the City of Penticton provided generous support to the BC Sustainable Energy Association's (BCSEA) Cool It! Climate Leadership Training Program (The Cool It! Program) enabling the delivery of the program in up to 4 elementary classes in Penticton.

Ultimately, the Cool It! Program was delivered to 4 classes, reaching 100 students who collectively completed 552 actions focused on climate change and sustainability.

Based on feedback collected in recent years from schools and teachers, The Cool It! Program continues to offer the option of both in-person or virtual workshop delivery. As in previous years, the decision on the most appropriate delivery method for each class was left in the hands of participating teachers.

The four-week Cool It! Climate Challenge encouraged students to choose from a variety of actions that would reduce theirs and their family's carbon and ecological footprints. It also provided opportunities for further investigation and reflection about issues related to climate change and sustainability as well as highlighting avenues for participation in local community action and programs.

Qualitative and quantitative data was collected from student actions prompted by their participation in the Cool It! Climate Challenge. Through energy conserving and emissions saving actions at home, along with research and inquiry activities, we expect City of Penticton student actions to result in an estimated annual saving of a total of 17.4 tonnes of carbon dioxide emissions (CO<sub>2</sub>e) if they commit to maintain their actions for one year. Overall, students did a fantastic job, with strong participation and engagement in both the workshop and the climate challenge components of the program.

# The 2023-24 program curriculum

Participation in an interactive workshop and a four-week climate challenge comprise the main components of the program.

#### Workshops

During the 2023-24 school year, BCSEA offered teachers the option of participating in an in-person or virtual workshop – depending on which mode of learning best suited their class. Each elementary class participated in a 60-minute workshop at the beginning of the program and a 30-minute wrap-up session after completing their four-week climate challenge.

In the workshops, all students learnt about the fundamentals of climate change science, debunked common climate myths and misconceptions, watched videos detailing the scientific processes of climate change, practiced evaluating the production and consumption life cycle of everyday items, explored the causes, impacts and solutions to climate change, and learnt about taking climate action with their friends and families and in their local communities.

After four weeks, a wrap-up session was held with each class to share their successes and challenges, recap the key messages and learnings from the workshop and celebrate their collective results.

### **Climate Challenge**

After their initial workshop, students participated in the Cool It! Climate Challenge for the next four weeks.

Elementary students were given a Climate Challenge Card - an interactive PDF document containing 25 unique actions that could be used digitally or printed out and completed by hand. When an action is completed, students check-off the corresponding square on the card as well as enter additional answers and

information where required. A 15-page supplementary booklet was also provided, which offered additional information about each action, extra support to complete it, and opportunities to for optional further research and investigation alongside additional resources.

Traditionally, the Cool It! Program focuses on gathering quantitative data through the collation of completed actions and measuring outcomes (where possible) in carbon dioxide emissions savings. While some actions yielded a quantifiable emissions reduction, other actions yielded qualitative results through individual reflection, personal investigation, and research.

The elementary Climate
Challenge Card used in
Penticton during 2023-24:

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# **City of Penticton funded classes**

#### **Program results**

City of Penticton funding enabled BCSEA to work with 4 classes and 100 students during the 2023-24 school year (see tables on next page for additional information). Students' actions through their participation in the Cool It! Climate Challenge resulted in an estimated total reduction of 17.4 tonnes of greenhouse gas emissions (tCO2e).



4 classes



100 students



552 actions



**17.4** GHG savings (tC02e)

Student engagement in Penticton was very strong this year. Encouragingly, we observed improvements in all our key measure of engagement with students – including climate challenge return rates and actions taken per student. Similarly, our local educators reported high levels of participation and feedback during workshops.

The Climate Challenge return rate among elementary students (the proportion of students who returned a completed climate challenge form) was 70% - well-above our program-wide average of ~60% and three participating classes completed over 100 cumulative actions each.

## **Elementary class details**

School name	Teacher name	Grade	Class size	# Cards returned	Return Rate (%)*	Total actions completed	GHG totals per class
Wiltse Elementary	Laura McConnell	3	25	19	76%	173	6.2
Wiltse Elementary	Evan Miller	3	25	14	56%	90	2.4
Wiltse Elementary	Robyn Service	4/5	24	18	75%	165	5.5
Columbia Elementary	Meagan Rand	4	26	19	73%	124	3.3
Totals			100	70	70%	552	17.4

<sup>\* %</sup> of students who returned a completed Climate Challenge Card

## **Summary of elementary student actions**

1.1 Car Smart	1.2 Travel Smart	1.3 Local Vacation	2.1 Tasty Leftovers	2.2 Local Food	
25	27	25	28	36	
2.3 Love Veggies	2.4 Grow Your Own	3.1 Earth Hour	3.2 Get Efficient	3.3 Stay Snug	
25	29	23	26	25	
4.1 More than Recycling	4.2 Home Waste	5.1 Water Wise	5.2 Adopt a Storm Drain	5.3 Every Drop Counts	
21	15	30	22	34	
6.1 Native Trees and Plants	6.2 Bee Friendly	6.3 Go Bio	7.1 Gaming for Nature	7.2 Local Climate Action	
24	25	24	14	14	
7.3 Life Cycles	7.4 Community Exploration	7.5 Community Action	7.6 Climate Reflections	7.7 Climate Reflections	
11	10	12	15	12	

TOTAL ACTIONS	552
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<sup>1.</sup> Getting Around 2. Food Choices 3. Home Energy 4. Waste 5. Water 6. Go Green 7. Research + Reflection

#### **Student and Teacher Recognition and Rewards**

BCSEA rewarded the hard work and dedication of students and teachers who did their best to complete the four-week program. We rewarded top performing students and classes with e-gift cards. We also offered random prize draws to encourage students to submit their cards no matter how many activities they completed. We are also sending personal thank you notes to all teachers who achieved over 75% return rate, or who filled in our teacher survey.

#### Acknowledgement of the City of Penticton's sponsorship and support

BCSEA is grateful for the continued support from funders like the City of Penticton who have made climate change education programming possible in their community. The City of Penticton was acknowledged for their support of the Cool It! Program in the following ways:

- The City of Penticton logo was featured on the Climate Change Card.
- City of Penticton suggested actions were incorporated into the Climate Challenge
   Card including links to specific City materials and resources.
- The City of Penticton logo is featured on the sponsor section of the Cool It! webpage http://www.bcsea.org/cool-it.
- Presenters acknowledged the support of the City of Penticton during workshops and wrap-up sessions.
- Outreach emails to teachers and schools acknowledged the City of Penticton's support.

The BCSEA would like to thank the City of Penticton for its ongoing support and partnership in achieving our shared goals of promoting of climate change science, increasing awareness of local climate action and community support, and empowering students and their families to make tangible behaviour changes towards more sustainable lifestyles.

From our entire team, thank you for your continued support!