

NET-ZERO COMMUNITY DESIGN CHALLENGE

2023 - 2024



Take the Net-Zero Community Design Challenge! Create an innovative design for the development of a net-zero community that reduces and/or offsets greenhouse gas emissions. Apply your learning from the **STEAM PEI Sustainable Energy Integrated Curriculum**, and submit your ideas for a chance to win \$1000 for your class!

This package contains everything you need to complete and submit an entry for the 2024 Net-Zero Community Design Challenge:

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Complete the following entry form and upload it to the submission page [here](#) by **Friday, May 3, 2024 at 11:59pm PST**. Please note that we are only accepting entries from groups that participated in the Grade 6 STEAM PEI Sustainable Energy Integrated Curriculum program in this pilot year of the Net-Zero Community Design Challenge.

Best of luck to you and your learners! If you have any questions or concerns at any time, please contact us at programs@greenlearning.ca or check out our [Frequently Asked Questions](#) page.

Challenge Instructions

The following outlines the instructions for completing and submitting an entry for the 2024 Net-Zero Community Design Challenge:

1. Introduce yourself to net-zero concepts outlined by [STEAM PEI](#) through their “Sustainable Energy Integrated Curriculum” Program.
2. Complete Lessons 8 - 10 offered by STEAM PEI, designing a net-zero community with your class!
3. Share your net-zero design on social media, with your family and in your school community (Lesson 10). Don't forget to also tag @GreenLearning on [Twitter](#), [Instagram](#), [Facebook](#)
4. Complete **one** Challenge Entry Form for your class and one Media Release Form per individual in any photos or videos you send in showing an individual's face. Each class can submit up to 5 net-zero designs and corresponding models for judging. For more information please see the [FAQ page](#).
5. Submission checklist:
 - Net-Zero Community Design Challenge Package (can be submitted as a document, or entered as a form)
 - Photos/Videos of Your Model/Designs
 - Media Release Form(s)

Please submit all materials and forms [here](#) by **May 3, 2024 at 11:59pm PST**. Entries that meet the requirements outlined in the [Net-Zero Community Design Challenge Rules and Regulations](#) will be judged after submission closes. The first, second and third place submissions will be awarded cash prizes of \$1,000, \$500 and \$250 respectively. Winners will be announced online in early June, 2024.

Selection Criteria

GreenLearning has recruited a panel of industry experts with experience and expertise on net-zero strategies and sustainable technologies to judge and provide feedback on challenge submissions.

This panel of judges will be evaluating submissions based on the following selection criteria:

Criteria	Level 4	Level 3	Level 2	Level 1
Design: Sustainable Design and Community Connection <i>Creativity and application.</i> (10 points)	A strong community design that clearly incorporates sustainable and eco-friendly decisions made to support identified community needs.	A community design that demonstrates sustainable and eco-friendly decisions, and is mindful of community needs.	A community design that demonstrates sustainable and eco-friendly decisions, but the community rationale is unclear.	A design that mentions a sustainable or eco-friendly decision that is unclear or may not be appropriate for the community.
Design: Energy Use <i>Operation and Efficiencies</i> (10 points)	The design clearly indicates how the community uses energy efficiently, from renewable energy with low environmental impact.	The design indicates efficient use of energy, with mention of renewable energy.	The design mentions energy use and renewable energy, but community use is unclear.	The design doesn't support net-zero energy use.
Media <i>Evidence of Learning</i> (10 points)	5+ photos, videos or student worksheets were submitted.	3-4 photos, videos or student worksheets were submitted.	1-2 photos, videos or student worksheets were submitted.	No photos, videos or student worksheets were submitted.
Entry Form: Reflection Questions <i>Creativity, critical thinking and knowledge mobilization.</i> (10 points)	Reflection applies strong knowledge of net-zero concepts to minimize environmental impact and is highly creative.	Reflection applies knowledge of net-zero concepts to minimize environmental impact and is creative.	Reflection applies some knowledge of net-zero concepts and is somewhat creative.	Reflection applies limited knowledge of net-zero concepts.

Entry Form

Please tell us about yourself and your class. If more than one educator or group leader was involved please complete this form based on who will be the main contact. ***This section is not scored.***

Educator's name:

Educator's email address:

How would you, the educator, like to be referenced in the online showcase? (E.g. Ms. Frizzle)

School name:

School city:

School province:

Educator and school social media handles:

The number of learners participating:

Grade level(s):

Subject(s) or club name:

Reflection Questions

The following questions can be answered by an educator or learner, with the exception of question 4, which **must** be completed by a learner. ***This section IS scored (10 points).*** Please see the Selection Criteria for details.

1. What is the most creative or innovative component of your design?
2. How does your proposed design reduce or offset typical community emissions?
3. How did you share your learning with your community and how many people did you reach as a result? Please provide a breakdown of your reach. E.g. Social media, open-house, school newsletters or community consultations.
4. Challenge Reflection Exit Question (**to be completed by the class or a specific learner**):
What does “net-zero” mean, and why is it important?

If you were to do this project again, what could you do differently to help the community you designed reach net-zero?

Educator Feedback

GreenLearning is consistently looking for ways to improve our challenges and collect participant feedback. Please take a few moments to tell us about your experience by answering the questions below. **This section is not scored.**

1. Why did you decide to participate in the Net-Zero Community Design Challenge?

2. How did participating in the Net-Zero Community Design Challenge benefit your learners' understanding of net-zero and sustainable practices?

3. How effective was this challenge in building youth understanding of net-zero technology and initiatives? *Please highlight your selection.*

Not effective 1 2 3 4 5 Very effective

4. How effective was this challenge in building youth skills as 21st Century learners? *Please highlight your selection.*

Not effective 1 2 3 4 5 Very effective

GreenLearning Media Release Form

I am aware that my name or my picture or my voice may appear in a print advertisement or other promotional material or be shown on the internet on which my picture can be seen or my voice heard on a recording and I hereby grant permission to GreenLearning Canada Foundation to use my picture, voice, or name for these purposes.

I hereby authorize GreenLearning Canada Foundation to use and publish my name, statements and likeness without charge, for promotional purposes in publications, advertising, video, web, new media, and other formats.

I hereby release GreenLearning Canada Foundation, and its officers, employees, shareholders, and directors from any and all liability whatsoever, for now, and forever.

Full Name:

Signature:

Email:

Phone:

If under 18, parent name and signature is also required:

Name:

Signature:

Date:
