ENERGY REVEALED CHALLENGE

Spark Energy Efficiency

2025/2026

The Energy Revealed Challenge is a great opportunity to investigate and differentiate between energy and power. Students will learn how to create an energy efficient environment by monitoring electricity use, greenhouse gas emissions and considering electricity costs. Energy concepts will come to life, encouraging innovative, critical and creative thinking.
The challenge will be scored out of 81 points based on the identified criteria found in the assessment rubric on the last page.

Challenge Instructions

Step 1: Register for the Challenge

If you are reading through this challenge package and have yet to register your class or club for this challenge, click the button below to register. Once you've registered, please continue to Step 2!

REGISTER HERE

Step 2: Tips to Get Started (optional)

To help familiarize yourself with energy conservation, use the following resources:

- Educator Resource
- Educator Video
- Electrical Energy Calculators

We **recommend** having your class/club complete a selection of learning activities from the Energy Revealed Program to equip your learners with the necessary knowledge and skills for the challenge and to watch GreenLearning's Energy Revealed Webinar - Speak for the Trees with your class. (See next page)

Energy Revealed Program

Speak for the Trees Webinar

Step 3: Investigate Your Energy

Option 1: Energy Out Event

It's time to take part in an Energy Out Event and create your own energy savings plans for your school using your school's energy metering system! Work with the facility team at your school to monitor your school's energy usage and complete the two worksheets below. If required, share the Facility Operator Letter with the facility operator.

Data Collection & Analysis Worksheet

Energy Savings Plan Worksheet

Option 2: Energy Investigation

Use the worksheet below to search and find devices, electronics and/or appliances in your classroom or school to understand the amount of kWh, greenhouse gases, and cost per year it takes to use them. Use the School Energy Audit Activity and Phantom Load Activity to help guide you in completing the two worksheets below.

Energy Investigation Worksheet

Energy Savings Plan Worksheet

Tip 1: Ensure you use the Electrical Energy Calculators to help determine electricity usage (kWh/year), greenhouse gases expended (GHG/year) and cost ($/year)!

Tip 2: Review this outline example of an Energy Savings Plan to help guide you through developing your school's own Energy Savings Plan.

Tip 3: See the **Learner Plans & Actions** section of the Assessment Rubric on the final page of this packge.

For further inspiration, check out past Energy Revealed projects!

Energy Revealed Challenge Showcase

Step 4: Project Summary, Learnings & Reflection Questions

Next, have your learners provide either an overview of their Energy Out Event or their Energy Investigation. Address how it will be promoted and who it is shared with, and reflect what they have learned with the school, their community, on social media or any other platforms. This is a great chance to share photos and videos.

Tip 1: See the **Supporting Materials** section of the Assessment Rubric on the final page of this package

When submitting photos and videos of the project, where student faces are apparent, please see the Reminder section below about media release forms.

Tip 2: Review the **Project Summary, Learnings and Reflection** section of the Assessment Rubric on the final page of this package

Project Summary, Learning & Reflection Worksheet

Reminder

As part of Step 4 for the Sharing Your Learnings section, photos and videos are encouraged and play a large role in scoring. When submitting photos and videos of the project where student faces are apparent, please ensure a **media release form** has been signed. If no photos or videos contain student faces, please skip to the next section of this challenge package.

If students' parents(s) and/or guardian(s) have already signed-off on media releases for their child at the beginning of the school year specifically for the school, please note there is an option for the teacher themselves to sign-off all their students participating in the challenges.

Teacher Sign-Off for Students with School Media Releases

Individual Student Media Release Form

Tell Us What You Think (optional)

Although this section is not scored, we encourage you to take a moment to provide feedback on your experience in leading your students on their challenge journey. This feedback helps us improve for the following year. (See next page)

Educator Feedback Form

Step 5: Time to Submit!

Your learners have worked so hard to put together an amazing project submission - now it's time for you to submit their work! Make sure to submit by **11:59pm PST on May 13th, 2026!**

SUBMIT CHALLENGE HERE

Submission Checklist:

Use the Assessment Rubric below to support your Challenge process

Either:

- [ ] Energy Out Event - Data Collection & Analysis Worksheet and/or
- [ ] Energy Investigation - Data Collection & Analysis Worksheet

(found under *Step 3* - dependent on which option is chosen)

Either:

- [ ] Energy Out Event - Energy Savings Plan Worksheet and/or
- [ ] Energy Investigation - Energy Savings Plan Worksheet

(found under *Step 3* - dependent on which option is chosen)

- [ ] Project Summary, Learning & Reflection Worksheet (found under Step 4)
- [ ] Photos & Videos of Model
- [ ] Media Release Form (s) (found under Reminder)
  - [ ] Parent and/or Guardian Signature

    OR
  - [ ] Teacher Sign-off
- [ ] Educator Feedback Form (reminder this piece is not scored - found under Tell Us What You Think)

Assessment Rubric

Criteria	Level 4	Level 3	Level 2	Level 1
Learner Plans & Actions				
Data Collection & Analysis Critical thinking, problem solving, data analysis **(20 points)**	Data is complete, well-organized and accurate (appropriate units). Analysis is thorough, supported and insightful. **(16-20 points)**	Data is mostly complete, well-organized and accurate (appropriate units). Analysis is mostly thorough, supported and insightful. **(10-15 points)**	Data is somewhat complete, well-organized and accurate (appropriate units). Analysis is somewhat thorough, supported and insightful **(5-9 points)**	Data is not complete, disorganized and inaccurate (lacks appropriate units). Analysis is not thorough, supported and insightful **(0-4 points)**
Energy Savings Plan Logical, thoroughness and problem solving **(20 points)**	The Energy Savings Plan is highly logical, complete and thorough in ideas to reduce energy use. **(16-20 points)**	The Energy Savings Plan is logical, complete, and thorough in ideas to reduce energy use. **(10-15 points)**	The Energy Savings Plan is somewhat logical, complete, and thorough in ideas to reduce energy use. **(5-9 points)**	The Energy Savings Plan is difficult to follow in logic, is lacking completeness and thoroughness in ideas to reduce energy use. **(0-4 points)**
Supporting Materials				
Supporting Materials Evidence of learning, photos, videos, slide deck, other supporting materials **(15 points)**	5+ photos, videos were submitted demonstrating the learner experience. **(12-15 points)**	3-4 photos, videos were submitted demonstrating the learner experience. **(8-11 points)**	1-2 photos, videos were submitted demonstrating the learner experience. **(4-7 points)**	No photos, videos were submitted demonstrating the learner experience. **(0-3 points)**
Project Summary, Learning & Reflection				
Summary of Project Overview of project, reason for selecting option, impact (kWh, GHG), how plan will reduce energy consumption. **(6 points)**	A strong summary of the energy savings plan, measuring impact and strategy to reduce consumption **(6-7 points)**	A good summary of the energy savings plan, measuring impact and strategy to reduce consumption. **(4-5 points)**	Some form of a summary of the energy savings plan, measuring impact and strategy to reduce consumption. **(2-3 points)**	Lacking a summary of the energy savings plan, measuring impact and strategy to reduce consumption. **(0-1 points)**
Sharing Your Learning Communication & Collaboration **(10 points)**	Learning was shared with clear educational intention and through multiple forms. **(8-10 points)**	Learning was shared with some educational intention and/or through multiple forms. **(6-7 points)**	Some learning was shared **(3-5 points)**	No learning was shared throughout this challenge **(0-2 points)**
Reflection Questions Creativity, critical thinking & knowledge mobilization **(10 points)**	Response is highly logical and creative in explaining and expanding on energy use, conservation and management. **(8-10 points)**	Response is logical and creative in explaining and expanding on energy use, conservation and management. **(6-7 points)**	Response is somewhat logical and creative in explaining and expanding on energy use, conservation and management. **(3-5 points)**	Response is difficult to follow and limited in explaining and expanding on energy use, conservation and management. **(0-2 points)**
Total Points: /81				