

Relay
Education



**It's Time to Educate
A Bright New Generation**

Help Enlighten Youth in Barbados

There is a huge need for the next generation in Barbados to become prepared for careers in renewable energy and related industries.

Relay Education is seeking to initiate an improvement in this through youth engagement in career development, training and STEM education in renewable energy fields and renewable energy technologies.



Elementary Workshops

Relay Education brings the world of science, technology, engineering, and mathematics to life with your students. Workshops will be suited to meet curriculum connections. Choose the topic you are interested in, and we will organize the best workshop for your class based on grade and region.

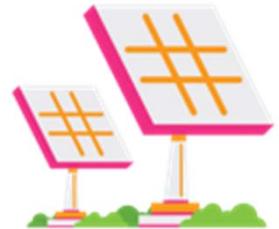
Concentrate on Conservation

We will look at where we get our energy comes from, what uses the most electricity in our lives, and learn simple ways we can conserve energy in our schools and at home. We'll compare renewable energy technologies in different experiments to see what works better in different conditions.



Plug in the Sun

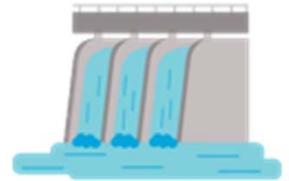
Harness the energy of the sun with solar power. Students will learn about the power of the sun, how solar energy works and innovations using solar energy. We'll complete experiments together about how angles, colours of light and weather impact the efficiency of a solar panel.



Elementary Workshops

Where Water Flows

Explore the ways we use water for sanitation, industry, recreation, and consumption. We discuss ecological, Indigenous and climate change impacts on water throughout Canada. We will dive into your local water waterways and learn how to help protect them.



Capture the Wind

Learn how energy can be transformed into electricity using wind turbines. Students will learn about fossil fuels, climate change and renewable energy. We'll conduct experiments with wind turbines to examine how the number of blades and different sizes affect a wind turbine's output.



Safety Spark

Learn how to be safe using the mighty power of electricity. This fun workshop will challenge students to provide real-time answers to electrical safety situations at home, learn about power lines, transformers, contact voltage and how we can be ready for power outages.



Renewable Energy Design Challenge

Grades 4 - 8

The Renewable Energy Design Challenge combines one of our classroom workshops and the essential materials required for students to build renewable energy models. Choose either the Wind Design Challenge, where students build their own wind turbines, or the Solar Design Challenge, where students construct solar cars.

Both challenges are to be completed with students working collaboratively in groups. The challenges are offered as full day or half day* options.

A Full Day Design Challenge includes:

- Relay workshop (see descriptions for Capture the Wind or Plug in the Sun)
- Building materials (items differ depending on the challenge you choose)
 - Each challenge includes materials for 6 models
 - Materials will remain the property of the class and can be re-used if models are dismantled.

*If you are interested in the half day option, you would receive the in-class workshop and then be provided with the materials to complete the building with students on your own. We provide a building guide with detailed instructions.



Let's build
solar cars and
wind turbines!

Virtual Workshops

Let's explore conservation, electricity, wind energy, solar energy, and climate change. Witness live demonstrations using science equipment and green technology. Virtual workshops include experiments, live questions and answer periods, games, and interactive learning. We make virtual learning fun and educational!



Train-the-Trainer

Relay Education strives to build the capacity of communities to continue to deliver renewable energy education independently.

Relay has worked with Indigenous communities and organizations across Canada and the United States to empower workshop facilitation at the local level.

In Barbados, Relay can implement its Train-the-Trainer program to ensure members of the community can offer workshop delivery for the long-term.

We provide all necessary equipment and materials for them to deliver workshops on an ongoing basis

The program also offers trainers with employment and essential skills training so they can better leverage the experience to long term career options

Career Development and Training

Training in Renewable Careers

Relay Education works with communities and partners to offer technical training to youth in professions related to growing fields in renewable energy.

Relay has coordinated training and career development programs related to:

- Solar energy installation
- Solar energy operations and maintenance
- Wind energy operations and maintenance

Relay has also worked closely with Indigenous communities in Canada to deliver on-going training programs and job fairs.



I had no clue what I was looking for or what I wanted to do in life. The training from Relay gave me a job right away.



The Relay solar course helps further your career, because I'm doing things that I would not have been able to do before.





Career Development and Training

Relay believes in preparing young people across the globe as there is a transition to more sustainable economies. Workshops can be delivered in-person and virtually. Relay's career development workshops include:

Green Collar Careers - This interactive workshop allows participants to identify how their skills and personal interests align with careers in environmental fields.

The Green Economy - Participants are exposed to the many sectors and industries that will see growth during the low carbon transition of the economy. Real companies and start-ups are discussed, showcasing the various climate, low/zero carbon, sustainability, and environmental stewardship goals that their services and products address.

Prep and Pitch Your Career - Participants learn of the importance of networking and how being prepared with an elevator pitch can help with secure employment.

Essential Career Skills – Youth gain insight on what essential skills they already possess and tips on how to improve on others.