

Caribbean Sustainable Energy Program

Funded by the European Union and executed by the Organization of American States

Capacity Building in the Education Sector

Big Challenges



A country's energy resources affect nearly every aspect of its economic development. This is true for all countries, but is particularly crucial for those in the Eastern Caribbean, where most energy resources are imported and the high cost of modern energy services directly affect national development.

It has become clear that utilizing renewable energy and increasing energy efficiency play a pivotal role in mitigating climate change, enhancing energy security, and moving toward sustainable economic development. In addition, using alternative energy sources in the place of conventional ones has been well noted as a key strategy for reducing total energy use and minimizing adverse environmental impacts. As we look toward the sustainable development of the Caribbean region, educating the upcoming generation about these challenges and raising awareness about using energy responsibly is a priority.

What is CSEP?

The General Secretariat of the Organization of American States is executing a four-year initiative called the Caribbean Sustainable Energy Program (CSEP). CSEP is being funded by the European Union and executed through our Department of Sustainable Development (OAS/DSD) in partnership with the Caribbean Energy Utility Services Corporation (CARILEC), the Caribbean Community (CARICOM) Secretariat and the Renewable Energy and Energy Efficiency Partnership (REEEP).



Since its inception in 2008, CSEP has been aimed at accelerating its participating countries' transition toward cleaner, more sustainable energy use.: Participating countries include Antigua and Barbuda,, Grenada, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, the Commonwealth of the Bahamas, and the Commonwealth of Dominica.

As one of its core actions, CSEP aims to create attractive opportunities for relevant individual and institutional stakeholders to support the use and further development of sustainable energy in each of the aforementioned countries. This goal places further emphasis on an already mentioned priority: addressing education and awareness in each participating nation.

What is CEEAP?



Caribbean Energy Education and Awareness Programme

In early 2011, CSEP contracted the French-based firm Egis International (EI), to help design a regional energy communication and awareness strategy.

In order to foster a sense of ownership within the strategy's beneficiary populations, EI coordinated with CSEP's Regional Manager to distribute surveys in all seven countries. The pair also undertook an April 2011 mission to Saint Lucia, Saint Vincent and the Grenadines, Antigua, and the Bahamas where they held interviews and conducted meetings with key stakeholders.

The result was a regional programme entitled the Caribbean Energy Education and Awareness Programme (CEEAP). CEEAP intends to: (a) reinforce and improve the institutional and pedagogic capacities of teachers as well as the staff of the Ministries of Education, and (b) improve the science curriculum in primary and secondary schools by clarifying, updating and intensifying information areas relating to energy conservation, the efficient use of energy, and renewable energy sources. This goal will be undertaken with a focus on students in higher primary and lower secondary school grades.

CEEAP is a strategy in progress. The Strategy's intended actions are set to be executed concurrently with CSEP until CSEP's October 2012 conclusion; however it is proposed that CEEAP continue to be implemented by the participating countries beyond CSEP's end date. Additional input is welcomed and is necessary as we strive to deliver CEEAP to a wider audience, so that it can contribute as much as possible to the region's sustainable energy future.

CEEAP Materials

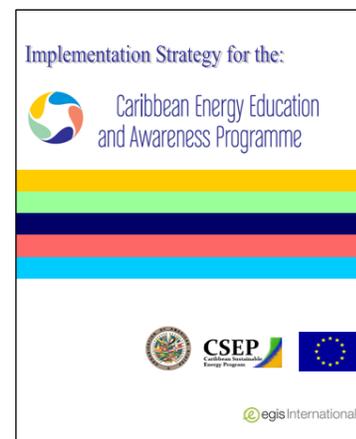
The following learning materials and tools were developed as practical aids to CEEAP's intended actions:

- **Implementation Strategy for the Caribbean Energy Education and Awareness Programme (CEEAP)**

This document delineates CEEAP's general approach, specifically defining the key messages the Strategy wishes to communicate to its main target groups.

The document also proposes activities aimed at communicating with and educating the members of target groups. These activities are based on the findings and recommendations that emerged during the consultation phase. All recommendations are presented in a simple and practical manner to facilitate future implementation.

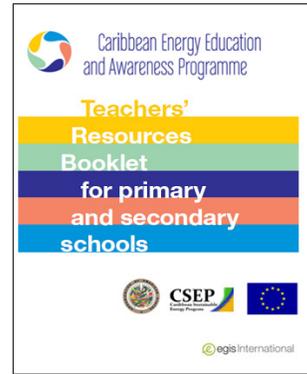
The instructional, communication and awareness proposals made in this document are intended to be used (with or without further modifications) to implement and/or expand energy education and awareness campaigns among students and/or other target groups.



■ Teachers' Resource Booklet

Because we believe that the support and involvement of teachers is integral to the success of CEEAP, we designed a teachers' resource booklet. The booklet is divided into four modules and includes practical examples specifically tailored to the Caribbean context. The modules are as listed below:

- Module 1: Energy Basics
- Module 2: Electricity
- Module 3: Sources of Energy
- Module 4: Uses of Energy and Energy Efficiency and Conservation.



■ Energy Learning Box

We envision the energy learning box being distributed in schools. The materials will be most effective if the teacher divides the class into manageable-sized groups, that is, with an average of eight to ten students per group.

- Text Book

The *Learn and Save* text book tells the story of an energy family living in a fictional world that is akin to a sort of energy green planet. Several characters, each representing one of the energy sources, are brought to life with appealing illustrations and descriptions, including special powers and adventure stories. The text book has four chapters:

- Chapter 1: Learning Energy
- Chapter 2: Sources of Energy
- Chapter 3: Using and Saving Energy
- Chapter 4: Energy Activities

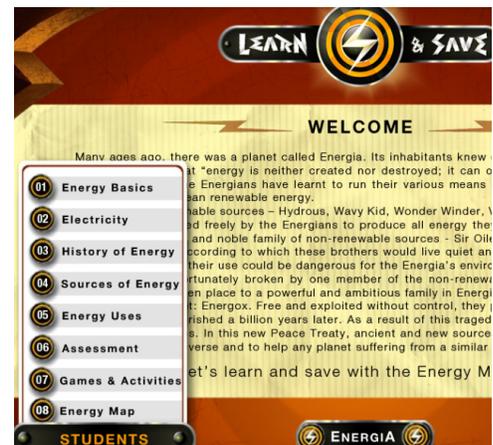


- Multimedia DVD

The *Learn and Save* DVD has two main sections, one for teachers and one for students.

The section for teachers replicates the contents of the four modules in the Teachers' Resource Booklet. It enhances the booklet's contents by providing links to energy and environmental programmes being implemented in other regions of the world.

The section for students is divided into eight chapters, which include the four chapters of the *Learn and Save* text book. The DVD adds to the text book experience by providing interactive tutorials on the history of energy, guided questions and quizzes, an interactive version of the Caribbean map, and a plethora of other stimulating games and activities.



- Flyers and bookmarks

The flyers and bookmarks are intended to be handy reminders of tips for conserving energy at school and at home.

- Games and activities

These are intended to be enjoyed in groups of up to five students under the supervision of a teacher. Each games and activities bundle consists of one energy trivia game, two puzzles and one deck of cards.



■ Public Service Announcements

Two public service announcements with durations of 60 seconds were produced as animated movies. They illustrate several tips and practices for saving energy at school and at home. The story-board for each short movie progresses through a day in the life of a typical teenager, with a focus on different moments at which he/she is presented with an opportunity to conserve energy. The announcements feature many characters from the *Learn and Save* text book. The characters are animated to stimulate young viewers with the intention of making them more receptive to the key messages.

Teacher Training

First Sustainable Energy Workshop for Caribbean Educators (September 22-23 2011). It provided teachers and curriculum specialists within Ministries of Education with a thorough understanding of the energy challenges confronting the region. CEEAP's mission and its concomitant educational materials were proposed as instruments for improving the science curriculum as it relates to



information areas like energy conservation, the transition to renewable energy sources, and the efficient use of energy. The seventeen attendees were able to review the educational materials and subsequently expressed their interest in implementing CEEAP in their respective countries.

The **Second Sustainable Energy Workshop for Caribbean Educators** is scheduled for 2012. This workshop will target science and geography teachers. This workshop aims to launch the CEEAP with an eye to providing training on the use of the educational materials. The intended result is that participants are able to utilize the materials in at least one school in their home country.

The workshop is also geared at preparing for the establishment of the National Committee on Sustainable Energy Education (CEEAP Committee), which will be coordinated with the CSEP Focal Point in each participating nation.

We will uphold our pledge to pilot the curriculum for each class before its launch. This is so because we wish to involve the teachers and learners in a well-paced, interactive implementation process and provide them with an opportunity to participate in refining the curricula with a view to upgrading learner performance.