

SAVE THE DATE! REGISTER TODAY!

Hawaii Energy, the energy conservation and efficiency program, is excited to bring the services of The National Energy Education Development (NEED) Project to our state. Classroom teachers (K-12) will have a unique opportunity to learn about energy and energy efficiency in a fun and exciting way at these upcoming workshops. Find out more about Hawaii's energy situation, fuel sources, electricity rates & usage, and how Hawaii ranks among the nation.



At the workshop, educators will be provided with:

- **A Hands-on classroom kit valued at over \$300**
- **Substitute Reimbursement**

Hawaii Energy provides funding for substitute reimbursement for attending the full-day workshop.

- **Breakfast and Lunch**

How to Register

Visit http://www.need.org/calendar_list.asp find the date and location and click to register.

Space is very limited, so register as soon as possible.

Priority will be given to educators who are new to the program or attended workshops held before June 2013.

Please register online at least 7 days prior to the workshop date:

Confirmation will be sent via email after your registration is completed; please set your spam filter to accept emails from @need.org addresses. Directions will be sent with prior to the workshop.

If you have any questions: Contact Wendi Moss at wmoss@need.org. or call toll-free at 1-800-875-5029.

Date & Location

November 17, 2015
Kaneohe, HI

November 19, 2015
Kapolei, HI

February 23, 2016
Kahului, HI

February 25, 2015
Hilo, HI

About the NEED Project:

The NEED Project's mission is to promote an energy conscious and educated society. NEED is the nation's leading provider of energy education programs and materials to schools. The NEED Project includes teacher-tested educational materials, evaluation techniques and tools, recognition of student achievement, and professional development for educators. The program will make teaching energy exciting and fun. All NEED learning activities are correlated to Hawaii science content and performance standards.

For more information please visit www.NEED.org or call toll-free at 1-800-875-5029

About Hawaii Energy:

Hawaii Energy is the ratepayer-funded energy conservation and efficiency program administered by Leidos Engineering, LLC under contract with the Hawaii Public Utilities Commission, serving the islands of Hawaii, Lanai, Maui, Molokai and Oahu. Our mission is to educate, motivate and incentivize electric utility customers interested in adopting energy conservation and efficiency measures to save electric energy and reduce Hawaii's dependence on imported oil.

For more information please visit www.HawaiiEnergy.com, or call 537-5577 or toll-free, at (877) 231-8222.



Hawaii Energy Education Workshop



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2015 Energy Efficiency Education Workshop Agenda

- 8:00 a.m.** **Registration and Continental Breakfast**
Pick up NEED materials and conference supplies. NEED Curriculum Packets are sponsored by Hawaii Energy for each teacher attending the workshop. Packets include supplemental classroom materials, and much more! To determine how much you learn today – take a quick pre-survey of energy efficiency knowledge.
- 8:30 a.m.** **Welcoming Program**
Chelsea Harder, Hawaii Energy
This workshop provides you the opportunity to increase your energy knowledge as a consumer and as an educator. The lessons shared will provide a good foundation for teachers teaching students of all ages and all learning styles.
- 8:45 a.m.** **Using the Materials in Your Classroom**
Mentor Teacher
Hear from one of your colleagues about how they have used the materials in their classroom. Your mentor teacher will be around all day to help you plan and answer questions and will be available to you after you return to the classroom too!
- 9:00 a.m.** **Electric Connections**
Where does our electricity come from? Learn what sources are used to create electricity in Hawaii and across the U.S.
- 9:20 a.m.** **Classroom Connections**
Working in grade level groups, discuss how you might use these activities in the classroom.
- 9:35 a.m.** **Introduction to Energy Efficiency**
How do you use energy in your daily life at school? Learn how energy is consumed and easy steps you and your students can take to reduce energy use.
- 9:45 a.m.** **Lighting and the Facts of Light**
Learn how to use the light meter and explore the building using this tool. Learn about energy efficiency as it relates to residential lighting while introducing students to the concept of life cycle costs.
- 10:10 a.m.** **Understanding Temperature and Humidity**
Using thermometers and hygrometers investigate air temperature, humidity, and water temperature and how to use them more efficiently.
- 10:35 a.m.** **Classroom Connections**
Working in grade level groups, discuss how you might use these activities in the classroom.
- 11:05 p.m.** **Ka Hei resources**
Ka Hei is an energy education program through the DOE that has complementary activities to the Hawaii Energy Education Program. Learn what resources are available!
- 11:15 a.m.** **Lunch**



Hawaii Energy Education Workshop



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2015 Energy Efficiency Education Workshop Agenda (continued)

- 12:00 p.m.** **Introduction to Plug Loads**
What is a plug load? Learn how to measure, calculate and alter your use of energy from electrical devices.
- 12:10 p.m.** **Kill A Watt Investigations**
Learn how to measure and monitor the electric power consumption of electrical machines and devices. Calculate the cost of using these devices.
- 12:40 p.m.** **Calculating Payback Periods**
Does the more expensive but more efficient device make sense to purchase? Learn how to calculate the payback period on your investment.
- 1:00 p.m.** **Classroom Connections**
Working in grade level groups, discuss how you might use these activities in the classroom.
- 1:30 p.m.** **Break**
- 1:40 p.m.** **Energy Conservation Contract**
Understand home energy use and help you students make commitments to reduce their energy use.
- 2:00 p.m.** **Energy Conservation at Home Web**
This quick lesson allows participants to understand a home as a system and to better conserve energy resources.
- 2:15 p.m.** **Classroom Connections**
Working in grade level groups, discuss how you might use these activities in the classroom.
- 2:45 p.m.** **Other program opportunities**
Learn about the Saving Energy Pilot Program, the Energy Expo, and Energy Education Intern. All of these activities are part of the Hawaii Energy Education Program and available via online application.
- 3:05 p.m.** **All the Great Stuff!**
The workshop wraps-up with evaluation, a post-survey of knowledge, and requesting your materials.
- 3:30 p.m.** **Adjourn!**

**Please note that the workshop agenda is subject to change without notice.*