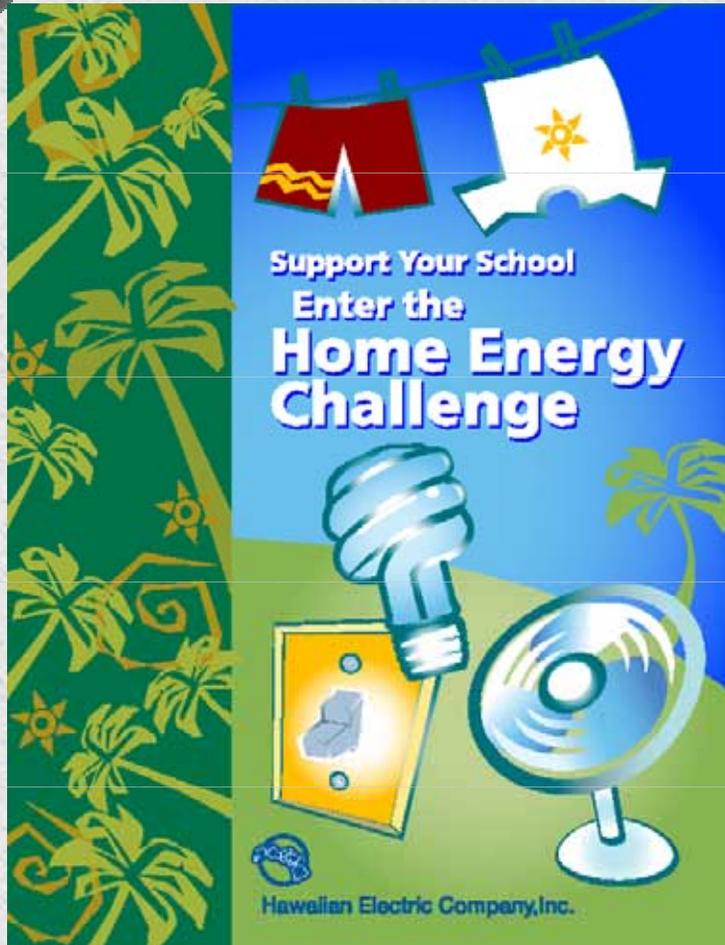


Home Energy Challenge



Aloha!

Kaiulani de Silva
& Sam Nichols

Peer Exchange
March 7, 2012



Hawaiian Electric Company

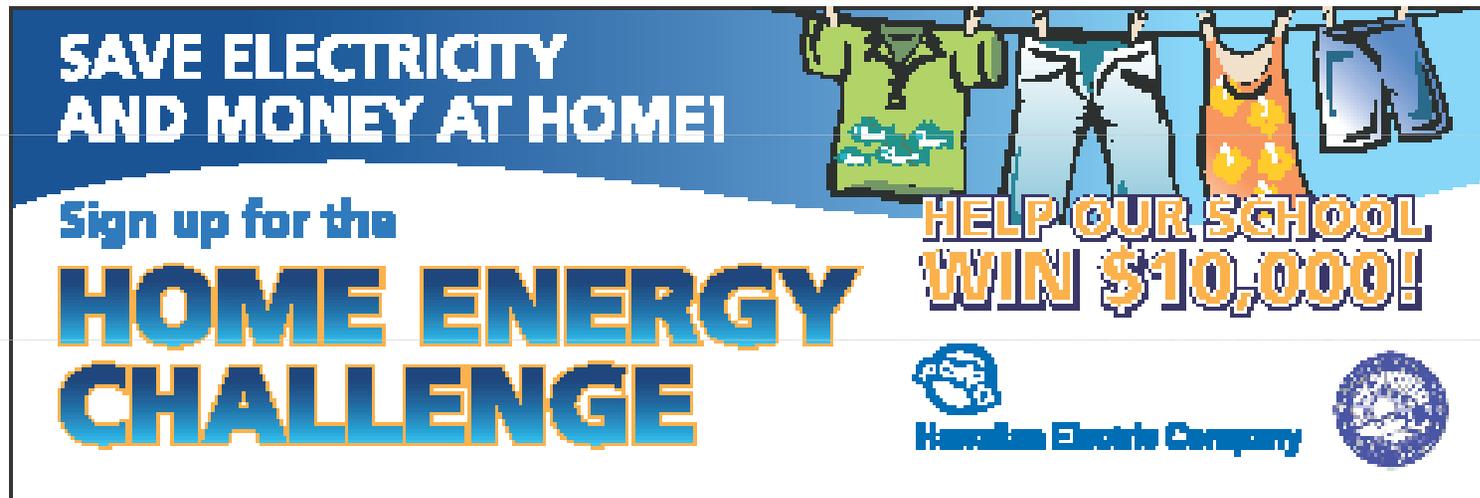
Home Energy Challenge 5th year!

- o Teaches elementary students and their families about the need to conserve energy at home
- o Minimum of 20% of school population participate in a measurable contest for 6 months
- o Rest of the school participates in energy conservation activities driven by a champion teacher(s) and students
- o Optional program to create an
Energy Conservation Project

Training the Teachers



Join Us! Sign up.



**SAVE ELECTRICITY
AND MONEY AT HOME!**

Sign up for the
**HOME ENERGY
CHALLENGE**

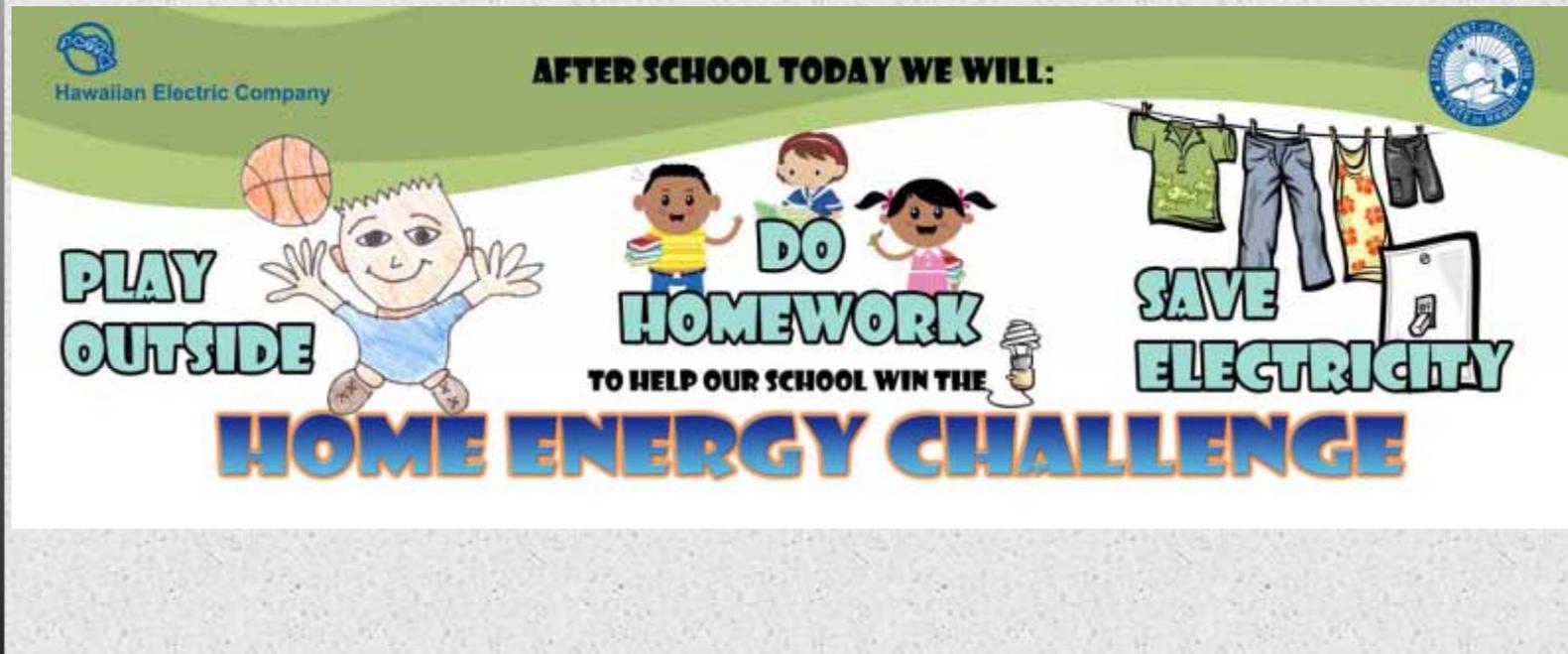
**HELP OUR SCHOOL
WIN \$10,000!**

 **Hamden Electric Company** 

The banner features a blue background with white and yellow text. On the right side, there is an illustration of laundry hanging on a clothesline, including a green shirt, a white shirt, a white shirt, an orange tank top, and a pair of blue shorts. The Hamden Electric Company logo is a circular emblem with a globe and the company name.

Reminders

Banners with slogans



Making it theirs....

- o If you want to
- o be bright....
- o open the windows
- o & turn off the light.

- o conservation
- o in the country!

- o Kahalu'u is a green
- o school!
- o green live green... save green!

- keep the future bright,
- turn off the lights.

- save energy,
- save earth

- tip: turn things off
- when not in use.
- tip: take shorter
- showers!

Everyone Can Play!

	Historical Usage (Last Year)	October 2010	November 2010	December 2010	January 2011	February 2011	March 2011
1	KWH/DAY						
	Current Usage (This Year)	October 2011	November 2011	December 2011	January 2012	February 2012	March 2012
2	KWH/DAY						
3	Is THIS YEAR'S number smaller than LAST YEAR'S? If it is, you saved energy!						
4	What can your family do to save energy next month?						

Understanding Your Information

How to Read Your Electric Bill

Every month the electric company sends a bill to each customer that shows how much electricity was used during the month, how much was paid in the previous months and what the charges are per day was.

Watts A watt is a unit of measurement for electricity. It's like having a half-gallon of milk, or a foot of rope. A CFL uses 23 watts of electricity, and a diesel driver uses 3,000 watts.

Kilowatts Because we use so much electricity at home, electricity is measured in kilowatts (or 1,000 watts, like having one thousand).

KWH Kilowatt hours are the number of kilowatts used in one hour. If we use three KW/H, that's the same as 3 KW/H x Month = 30 KW/H. Find this number on the bill and circle it.

KWH/DAY The average kilowatts used per day during the month is shown as KWH/DAY. Divide the kilowatt hours (KWH) by the amount of days on that month's bill to see what your KWH/DAY is. Each of March 2007: $318 \text{ KWH} \div 31 \text{ days} = 10.3 \text{ KWH/DAY}$.

Rowika's Electric Bill (sample):

Month	Usage (KWH)					
July 2006	100	100	100	100	100	100
Aug 2006	100	100	100	100	100	100
Sept 2006	100	100	100	100	100	100
Oct 2006	100	100	100	100	100	100
Nov 2006	100	100	100	100	100	100
Dec 2006	100	100	100	100	100	100
Jan 2007	100	100	100	100	100	100
Feb 2007	100	100	100	100	100	100
Mar 2007	100	100	100	100	100	100
Apr 2007	100	100	100	100	100	100
May 2007	100	100	100	100	100	100
June 2007	100	100	100	100	100	100

Look at Rowika's bill above and answer these questions.

Circle the KWH/DAY for the months of July 2006 and July 2007 and write the answers below.

Month: **KWH/DAY**

July 2006 =

July 2007 =

Write savings:

Compare: Which month did Rowika's family use less electricity?

How many KWH/DAY did Rowika's family use in the following months?

Month: **KWH/DAY**

December 2006:

January 2007:

June 2007:

Which month did Rowika's family use less electricity?

10th Anniversary

Measurable Consumption

6 months: October – March

- o Measure: % change of kWh

 - o Smaller schools have equal chance

- o 2011/2012 (4 months)

 - 730 homes measured

 - 3,700 students receive the messages

 - average 10% reduction

 - = 192,000 kWh savings

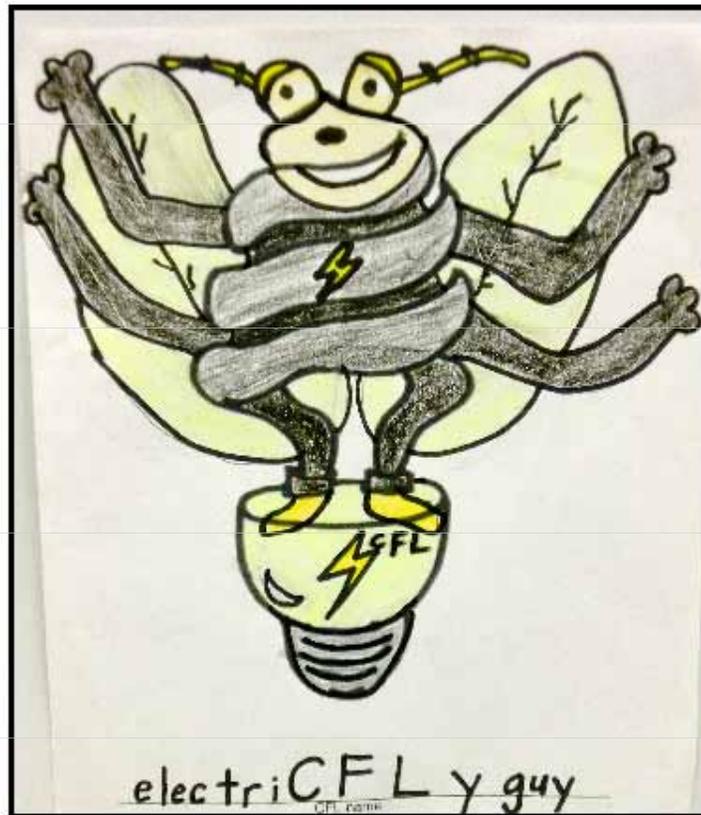
 - = \$60,000 savings

Secrets to Success

- o School champions
- o Hawaiian Electric engages with families, students & teachers
- o Families working together have a stake
- o Educational material
- o School prize money \$23,000

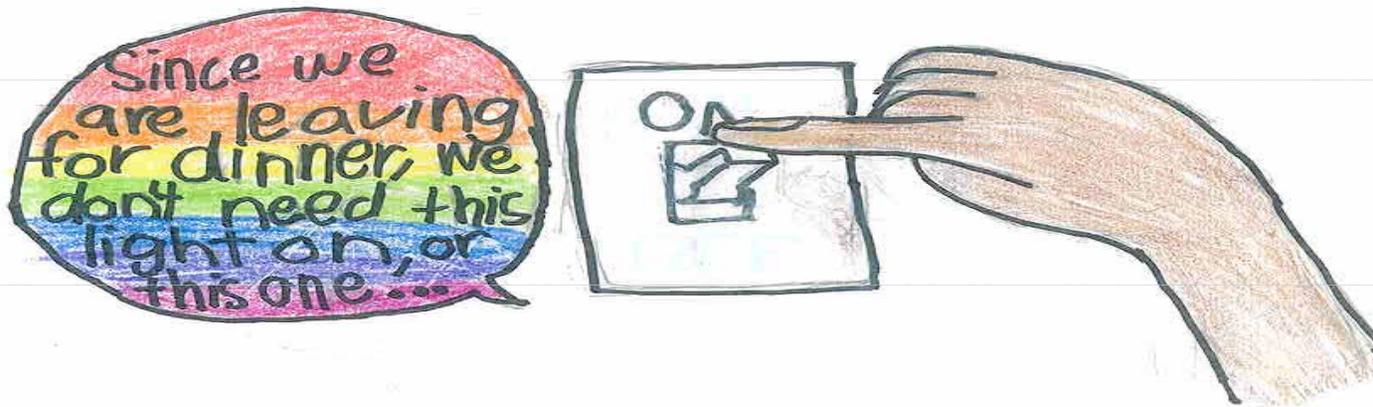


CFL HALLOWEEN COSTUME CONTEST



GRADE LEVEL WINNER
AIDAN
GRADE 5

New Years Resolution



New Year Resolution Winner



Rewards with Education



Learn the Basics



Touch and Learn



Engage Students & Families



Games on Stage



Not just a check and a smile

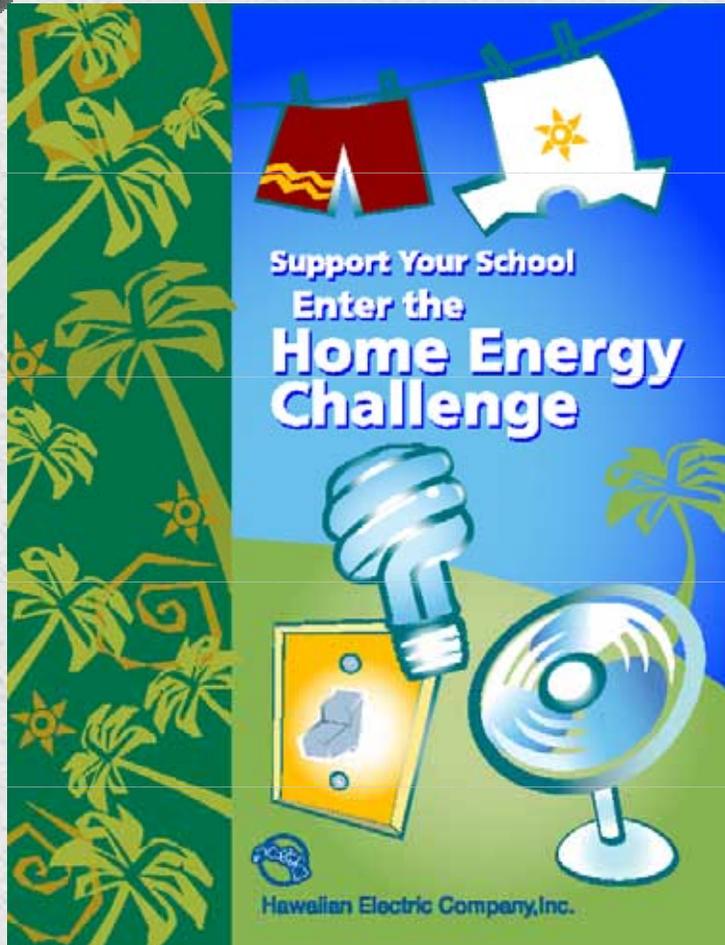


Entertainment

by Cirque Hawaii * O'hia Productions *
Nanakuli Performing Arts Center * Hawaii Theater for Youth



Home Energy Challenge



Aloha!

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& Sam Nichols



Hawaiian Electric Company