BLACK HILLS ENERGY LIVINGWISE®
PROGRAM SUMMARY REPORT
SOUTH DAKOTA SERVICE AREA

2017-2018

SUBMITTED BY:

RESOURCEACTION PROGRAMS

A FRANKLIN ENERGY COMPANY

Black Hills Energy LivingWise® Program Summary Report South Dakota Service Area 2017-2018

Made possible by:

Black Hills Energy™

Submitted by:

RESOURCEACTION PROGRAMS

A FRANKLIN ENERGY COMPANY

August 2018

"We had some great discussions about how to conserve our non-renewable resources. And the students really enjoyed using and installing the items in their homes."

Lorie Meade, Teacher
Vandenberg Elementary School

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"If more people had access to this knowledge, I think more people would be more conscientious of electricity and water conservation. Thank you!"

Jennifer Stedman, Parent
Hill City Elementary School

Executive Summary

Resource Action Programs® (RAP) is pleased to present this Program Summary Report to Black Hills Energy, which summarizes the 2017-2018 Black Hills Energy LivingWise® Program. The program was implemented in the Black Hills Energy service area in the state of South Dakota by 1,212 teachers, students, and their families.

The following pages provide an overview of the program and materials, outline of program implementation, introduction to the program team, description of program enhancements, impact of the program, and summary of results from the home activities. In addition to this information, evaluations, letters, and comments are provided for a glimpse into actual participant feedback. Lastly, projected savings from the individual measures found within the LivingWise Kit are also included.

Participant Satisfaction

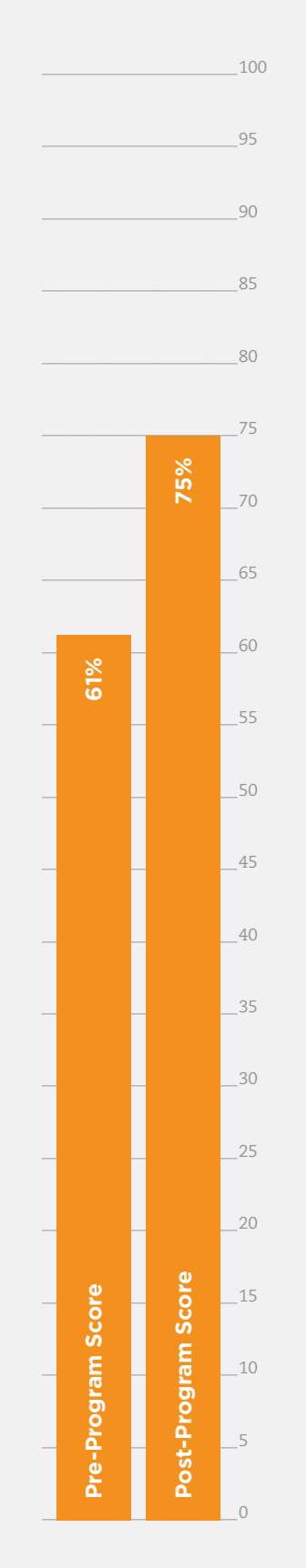
A successful program excites and engages participants. Students, parents, and teachers are asked to evaluate the program and provide personal comments. A sample of the feedback is given in the margin. ›

Teachers who indicated parents supported the program.

Teachers who indicated they would recommend this program to other colleagues.

Teachers who indicated they would conduct this program again.

A summary of responses can be found in Appendix D.



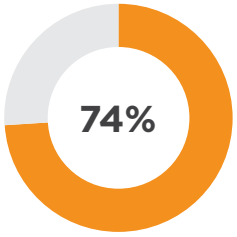
Knowledge Gained

Identical tests were administered to the students prior to the program and again upon program completion to measure knowledge gained. Scores and subject knowledge improved from **61%** to **75%**.

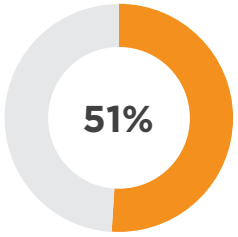
Data Obtained

Home surveys were taken by students and their families, which collected household demographic and consumption data along with program participation information.

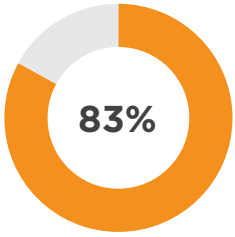
A summary of responses can be found in Appendix B.



Students who reported that their family home is owned.



Students who reported that their water is heated by gas.

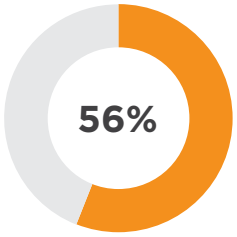


Students who reported that their home has a dishwasher.

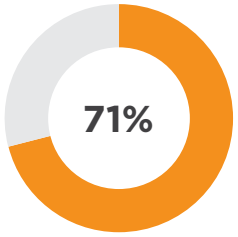
Measures Installed

Students completed take-home activities as part of the program and reported on the kit measures they installed in their homes.

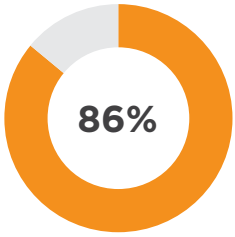
A summary of responses can be found in Appendix B.



Students who reported they installed the High-Efficiency Showerhead.



Students who reported they installed the LED Light Bulb.



Students who reported they installed the LED Night Light.

Energy and Water Savings Results

In addition to educating students and their parents, a primary program goal is to generate cost-effective energy and water savings. Student home surveys not only provided the data used in the savings projections, but also reinforced the learning benefits.

Projected Resource Savings

A list of assumptions and formulas used for these calculations can be found in Appendix A.

PROJECTED ANNUAL SAVINGS	
4,082,696	gallons of water saved
284,839	kWh of electricity saved
11,409	therms of gas saved
4,082,696	gallons of wastewater saved

PROJECTED LIFETIME SAVINGS	
31,730,441	gallons of water saved
2,548,803	kWh of electricity saved
98,411	therms of gas saved
31,730,441	gallons of wastewater saved

PROJECTED ANNUAL SAVINGS PER HOME	
3,369	gallons of water saved
235	kWh of electricity saved
9	therms of gas saved
3,369	gallons of wastewater saved

PROJECTED LIFETIME SAVINGS PER HOME	
26,180	gallons of water saved
2,103	kWh of electricity saved
81	therms of gas saved
26,180	gallons of wastewater saved

"Participants and their parents/guardians realize actual water and energy savings within their home, benefitting two generations."

Program Overview

The Black Hills Energy LivingWise® Program, a school-based energy efficiency education program, is designed to generate immediate and long-term resource savings by bringing interactive, real-world education home to students and their families. The 2017-2018 program was taught in 5th grade throughout the Black Hills Energy service area in the state of South Dakota.

The Black Hills Energy LivingWise Program team identifies and enrolls students and teachers within the designated service area. The program physically begins with classroom discussions using a Student Guide that provides the foundations of using energy and water efficiently. It is followed by hands-on, creative, problem-solving activities led by the classroom teacher.

All program materials support state and national academic standards to allow the program to fit easily into a teacher's existing curriculum and requirements. The participating classroom teachers follow the Teacher Book and lesson plan. Information is given to guide lessons throughout the program in order to satisfy each student's individual needs, whether they are visual, auditory, or kinesthetic learners.

The LivingWise Kit and Student Workbook comprise the take-home portion of the program. Students receive a kit containing high-efficiency measures they use to install within their homes. With the help of their parents/guardians, students install the kit measures and complete a home survey. The act of installing and monitoring new energy efficiency devices in their homes allows students to put their learning into practice. Here, participants and their parents/guardians realize actual water and energy savings within their home, benefitting two generations.

A critical element of RAP program design is the use of new knowledge through reporting. At the end of the program, the Black Hills Energy program team tabulates all participant responses—including home survey information, teacher responses, student letters, and parent feedback—and generates this Program Summary Report.

"For more than 25 years, Resource Action Programs (RAP) has designed and implemented Measure-Based Education® programs that inspire change in household energy and water use while delivering significant, measurable resource savings."

Program Materials

Each participant in the Black Hills Energy LivingWise® Program receives classroom materials and energy efficiency kits containing high-efficiency measures to perform the program's take-home activities. Program materials for students, parents/guardians, and teachers are outlined below.

Each Student & Teacher Receives

Student Guide

Student Workbook

Parent Letter/Pledge Form*

Student Survey Form

Certificate of Achievement

LivingWise Kit Containing:

- High-Efficiency Showerhead*
- Kitchen Faucet Aerator*
- LED Light Bulb
- LED Night Light
- FilterTone® Alarm*
- Digital Thermometer*
- Toilet Leak Detector Tablets
- Flow Rate Test Bag
- Natural Resource Fact Chart
- Mini Tape Measure
- Parent/Guardian Program Evaluation

"GetWise" Wristband

Program Website Access at Getwise.org

Toll-Free HELP Line

Each Teacher/Classroom Receives

Teacher Book

Step-by-Step Program Checklist

Lesson Plans

South Dakota State and National Academic Standards Chart

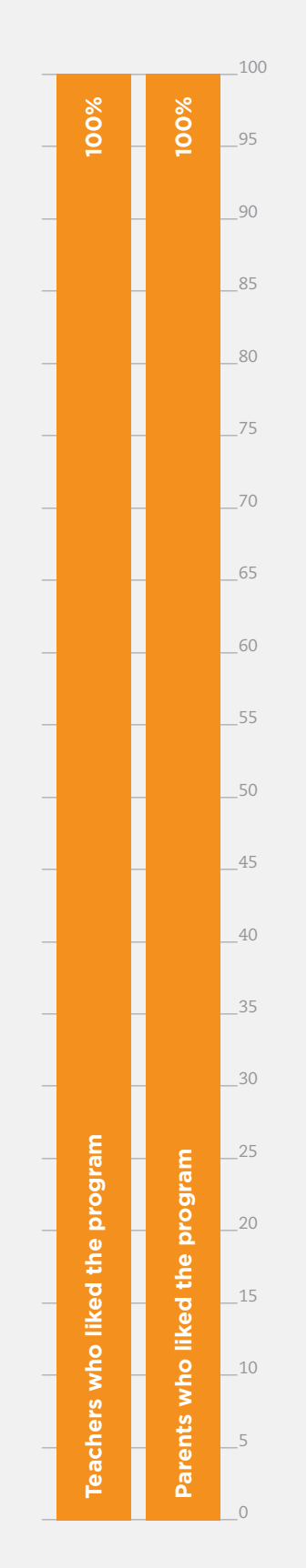
Teacher Survey Form

Pre/Post Student Survey Answer Keys

Electricity, Water, and Natural Gas Posters

Self-Addressed Postage-Paid Envelope

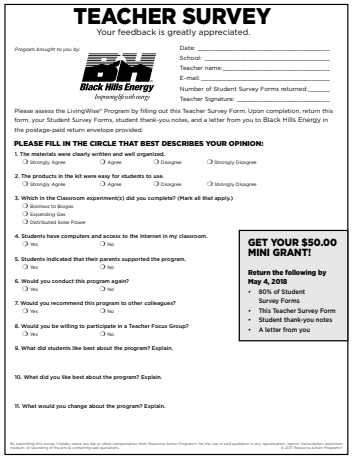
** Materials / Installation Instructions provided in English and Spanish*



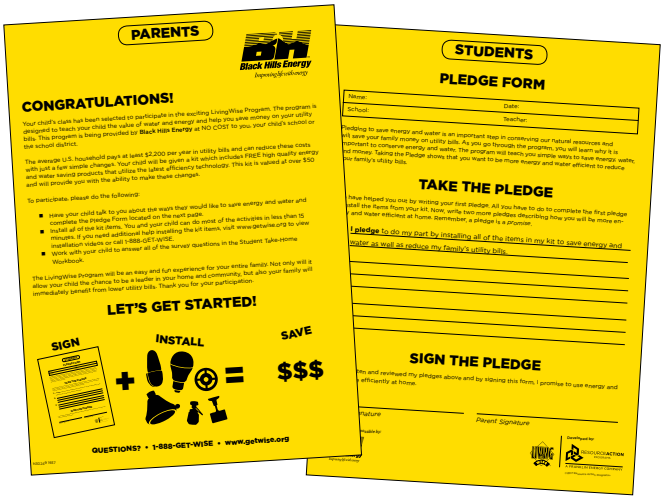
Custom Branding

In addition to increasing resource awareness and efficiency, the program has been designed to strengthen bonds between Black Hills Energy and the community. One of the steps taken to ensure the greatest possible exposure is to feature the Black Hills Energy logo throughout each LivingWise Kit. In addition to the kit, the Teacher Survey Form and Parent Letter/Pledge Form also feature Black Hills Energy branding.

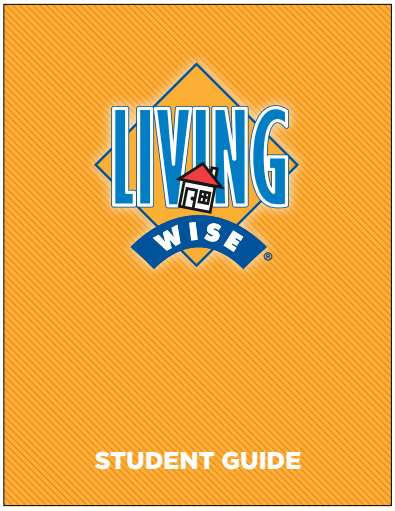
Program Materials



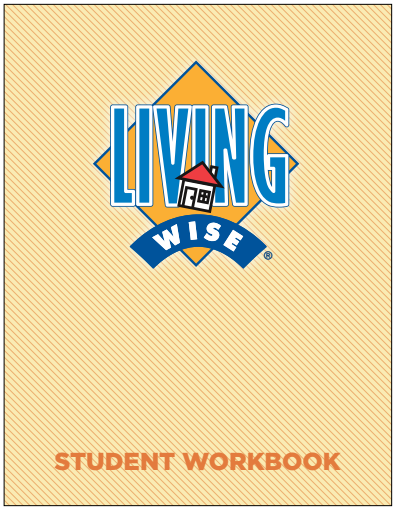
Teacher Survey Form



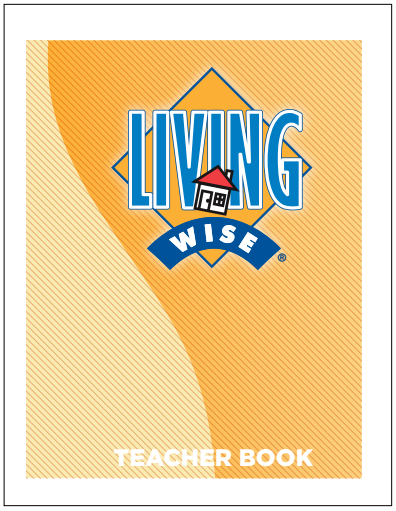
Parent Letter/Pledge Form



Student Guide

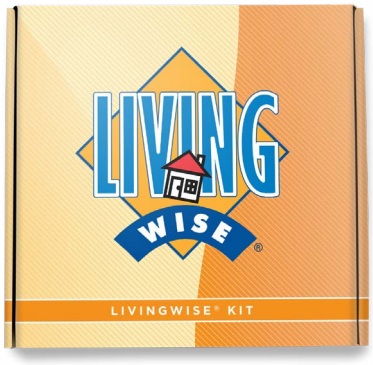


Student Workbook



Teacher Book

Certificate of Achievement



Kit Box

Kit Label

"I appreciated the in-depth lessons about types of energy, where they come from and how they are used. I liked that the lessons are interactive with students"

Lorie Meade, Teacher
Vandenberg Elementary School

Program Implementation

The 2017-2018 Black Hills Energy LivingWise® Program followed this comprehensive implementation schedule:

1. Identification of South Dakota state and national academic standards & benchmarks
2. Curriculum development and refinement (completed annually)
3. Curriculum correlation to South Dakota state and national academic standards & benchmarks
4. Materials modification to incorporate Black Hills Energy branding
5. Incentive program development
6. Teacher/school identification—with Black Hills Energy approval
7. Teacher outreach and program introduction
8. Teachers enrolled in the program individually
9. Implementation dates scheduled with teachers
10. Program material delivered to coincide with desired implementation date
11. Delivery confirmation
12. Periodic contact to ensure implementation and teacher satisfaction
13. Program completion incentive offered
14. Results collection
15. Program completion incentive delivered to qualifying teachers
16. Thank you cards sent to participating teachers
17. Data analysis
18. Program Summary Report generated and distributed

Participating teachers are free to implement the program to coincide with their lesson plans and class schedules. Appendix C provides a comprehensive list of classrooms in grade 5 that participated during the 2017-2018 school year.

For more than 25 years, Resource Action Programs (RAP) has designed and implemented Measure-Based Education® programs that inspire change in household energy and water use while delivering significant, measurable resource savings. All RAP programs feature a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put efficiency knowledge to work in students' homes.

RAP has a strong reputation for providing a high level of client service as part of a wide range of energy efficiency education solutions for utilities, municipalities, states, community agencies, corporations, and more. In 2013, RAP was the only conservation services provider honored by the American Council for an Energy-Efficient Economy (ACEEE) and the Alliance for Water Efficiency (AWE) as one of 12 top programs that provides sustained achievement. RAP was honored for market penetration, innovative design, and its ability to achieve substantial/sustained energy and water savings.

ACEEE
American Council for an Energy-Efficient Economy

Alliance for Water Efficiency

Program Team

RAP implements nearly 300 individual programs that serve more than 650,000 households each year. All-inclusive program delivery occurs in its 80,000 square-foot Nevada Program Center where implementation teams and support departments work together to provide:

- 1:1 teacher support
- Curriculum development
- Customized materials
- Data tracking and reporting
- Energy and water efficiency measures
- Graphic and web design
- Kit assembly
- Marketing communications
- Shipping
- Printing
- Program management
- Participant enrollment
- Warehousing

The Implementation Team

For the Black Hills Energy LivingWise® Program, RAP assigned a specific implementation team to Black Hills Energy made up of a PMP®-designated Program Manager, CEM®-designated energy analyst, graphic designer, outreach personnel, educator, and administrative staff. This team immersed themselves into the Black Hills Energy brand, and handled all program implementation for Black Hills Energy. Black Hills Energy also received the benefit of fully staffed support departments, which worked with the implementation team to define success for Black Hills Energy. These departments include education, marketing, information technology, and warehouse/logistics.

Continuous Improvement

In addition to successful implementation of the Black Hills Energy LivingWise Program, RAP engages in continuous program improvement, as well as enhancements to educational materials, with modifications based on emerging technology, industry trends, and EM&V findings.

As part of this plan, RAP utilizes an extensive network of educators for program feedback. This feedback ensures that educational components meet the changing needs of educators, keep information relevant to students, and, in turn, provide increased water and energy literacy amongst program participants.

"Upon completion of the program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information, and measure participation rates."

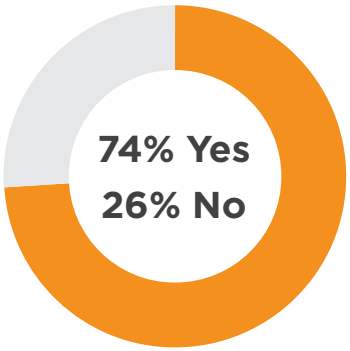
Program Impact

The Black Hills Energy LivingWise® Program has had a significant impact within the community. As illustrated below, the program successfully educated participants about energy and water efficiency while generating resource savings through the installation of efficiency measures in homes. Home survey information was collected to track projected savings and provide household consumption and demographic data. Program evaluations and comments were collected from teachers, students, and parents.

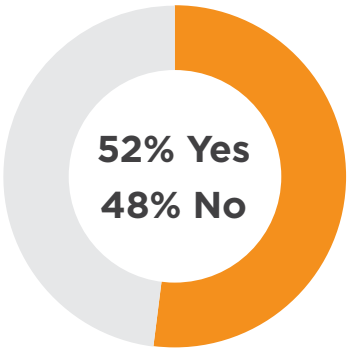
A. Home Survey

Upon completion of the program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information, and measure participation rates. A few samples of questions asked are below while a complete summary of all responses is included in the appendices.

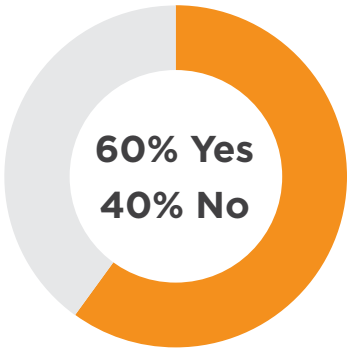
Did you work with your family on this program	**Yes - 74%**
Did your family change the way they use water?	**Yes - 52%**
Did your family change the way they use energy?	**Yes - 60%**



Students who indicated that they worked with their family on this program.



Students who indicated their family changed the way they use water.

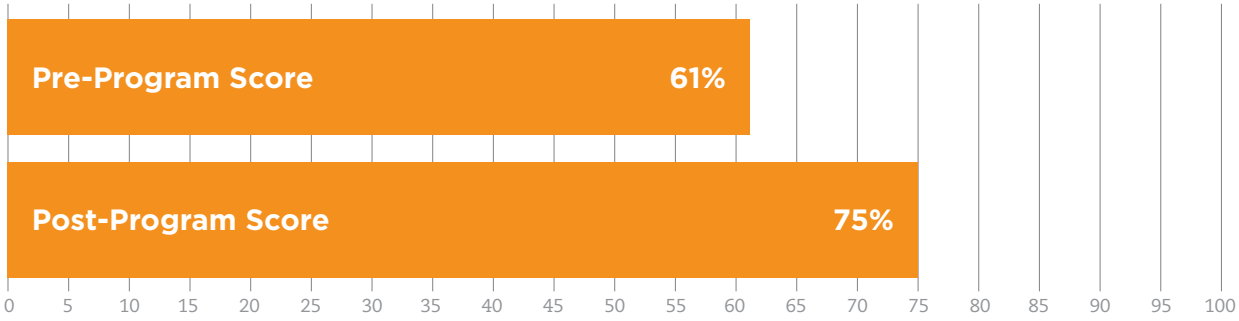


Students who indicated their family changed the way they use energy.

B. Pre-Program and Post-Program Tests

Students were asked to complete a 10-question test before the program was introduced and then again after it was completed to determine the knowledge gained through the program. The average student answered **6.1** questions correctly prior to being involved in the program and then improved to answer **7.5** questions correctly following participation.

Scores improved from 61% to 75%.



C. Home Activities

As part of the program, parents and students installed resource efficiency measures in their homes. They also measured the pre-existing devices to calculate savings that they generated. Using the family habits collected from the home survey as the basis for this calculation, 1,212 households are expected to save the following resource totals. Savings from these actions and new behaviors will continue for many years to come.

Projected Resource Savings

A list of assumptions and formulas used for these calculations can be found in Appendix A.

Number of Participants:	**1,212**		
	Annual	**Lifetime**	
Projected reduction from Showerhead retrofit:	**2,263,392**	**22,633,919**	gallons
Product Life: **10 years**	**144,456**	**1,444,561**	kWh
	7,648	**76,477**	therms
Projected reduction from Kitchen Faucet Aerator retrofit:	**1,254,492**	**6,272,459**	gallons
Product Life: **5 years**	**57,834**	**289,170**	kWh
	3,135	**15,675**	therms
Toilet Leak Repair projects an annual reduction of:	**564,812**	**2,824,062**	gallons/year
Product Life: **5 years**			
Projected reduction from LED Lightbulb retrofit:	**41,662**	**406,203**	kWh
Product Life: **20 years**			
Projected reduction from LED Night Light retrofit:	**29,620**	**296,199**	kWh
Product Life: **10,000 hours**			
Projected reduction from FilterTone® installation:	**11,267**	**112,670**	kWh
Product Life: **10 years**	**626**	**6,260**	therms
TOTAL PROGRAM SAVINGS:	**4,082,696**	**31,730,441**	gallons
	284,839	**2,548,803**	kWh
	11,409	**98,411**	therms
TOTAL PROGRAM SAVINGS PER HOUSEHOLD:	**3,369**	**26,180**	gallons
	235	**2,103**	kWh
	9	**81**	therms

D. Teacher Program Evaluation

Program improvements are based on participant feedback received. One of the types of feedback obtained is from participating teachers via a Teacher Program Evaluation Form. They are asked to evaluate relevant aspects of the program and each response is reviewed for pertinent information. The following is feedback from the Teacher Program Evaluation for the Black Hills Energy LivingWise Program.

Teacher Response

(A summary of responses can be found in Appendix D)

100% of participating teachers indicated they would conduct the program again given the opportunity.

100% of participating teachers indicated they would recommend the program to their colleagues.

What did students like best about the program? Explain.

"The shower heads and conserving water."
Nancy Mulcahy, Hot Springs Elementary

"They liked the kits."
Philip Miller, St Paul's Lutheran School

"They liked the water conservation, specifically the shower head."
Koreen Hammel, Hot Springs Elementary

"Students talked a lot about water conservation and the shower head."
Todd Phelps, Hot Springs Elementary

"My students enjoyed the classroom experiments and the diagrams."
Matthew Henderson, Hill City Elementary School

"The kit was their favorite part of the program."
Colleen Clapper, Hill City Elementary School

"The products that went home."
Elizabeth Timmerman, Grandview Elementary

"The information and activities to do at home with family."
Alex Whitney, Grandview Elementary

"They liked the kits."
Lauree Buus, Grandview Elementary

"The students really liked the kit."
Brandi Marler, Vandenberg Elementary School

Teacher Response

(A summary of responses can be found in Appendix D)

What did you like best about the program? Explain.

"The variety of materials supplied and what they learn about energy conservation."
Nancy Mulcahy, Hot Springs Elementary

"It's easy to use."
Philip Miller, St Paul's Lutheran School

"The ease of use of the materials and the teacher's guide and student book for more classroom depth."
Koreen Hammel, Hot Springs Elementary

"It's easy to use and has variety."
Todd Phelps, Hot Springs Elementary

"The program was informative. My students enjoyed learning how to save energy and help the planet."
Matthew Henderson, Hill City Elementary School

"Everything was there and ready to go. Teacher friendly."
Colleen Clapper, Hill City Elementary School

"I like that it is easy to follow and meets our standards."
Paige Guy, Piedmont Valley Elementary School

"That it taught standards and also taught the kids everyday life lessons and skills."
Brandi Marler, Vandenberg Elementary School

What would you change about the program? Explain.

"Nothing. It is great!"
Paige Guy, Piedmont Valley Elementary School

"Package the informational cards with the slide down date separately from the take home kits."
Elizabeth Timmerman, Grandview Elementary

"Nothing, great program with great materials."
Alex Whitney, Grandview Elementary

"Longer deadlines. We were running out of time."
Kelsey Trimble, Vandenberg Elementary School

"More internet activities so students can explore energy saving at home."
Matthew Henderson, Hill City Elementary School

E. Parent/Guardian Program Evaluation

Parent involvement with program activities and their children is of paramount interest to both utilities and teachers in the program. When parents take an active role in their child's education it helps the schools and strengthens the educational process considerably. When students successfully engage their families in retrofit, installation, and home energy efficiency projects, efficiency messages are powerfully delivered to two generations in the same household. The program is a catalyst for this family interaction, which is demonstrated by feedback from Parent/Guardian Program Evaluations in each program. The following is feedback from the Parent/Guardian Program Evaluations for the Black Hills Energy LivingWise Program.

Parent Response

(A summary of responses can be found in Appendix E)

100% of participating parents indicated that the program was easy to use.

100% of participating parents indicated they would continue to use the kit items after the completion of the program.

100% of participating parents indicated they would like to see this program continued in local schools.

As a parent, which aspect of the program did you like best?

"Having my child understand how much water is used during everyday activities."
Jennifer Larson, Grandview Elementary

"The LED's and the water saving faucet and shower head."
Jennifer Stedman, Hill City Elementary School

"Doing the experiments with my child."
Jillian Jankard, Meadowbrook Elementary

"I liked talking to the kids about energy and resources."
Kim Oberloh, Rapid City Adventist Elementary School

"The variety and equations; it was eye opening"
Jamie, St. Elizabeth Ann Seton Elementary School

Are there any comments you would like to express to your child's program sponsor?

"I really feel like the program is a great learning tool."
Jillian Jankard, Meadowbrook Elementary

"Thank you!"
Jamie, St. Elizabeth Ann Seton Elementary School

F. Teacher Letters

(A summary of responses can be found in Appendix F)

Lorie Meade
Vandenberg Elementary
561 Briggs St.
Box Elder, SD 57719

Dear Black Hills Energy,

I would like to thank you for another opportunity to use the curriculum and resources to teach our students about our worlds resources; renewable and nonrenewable. It is vital that young people today learn the vitality of Earth's resources; what they are, where they come from, and how we use them. Not to just learn about them, but to also incorporate how they and their families can learn to use our energy sources efficiently. Specifically, how kids themselves can help reuse and reduce energy consumption.

The curriculum and resources that BH Energy provides does an excellent job of reviewing and diving in a little deeper in to these content areas. It is a way to also incorporate real life concepts learned at school that directly affects their real lives and can be shared and incorporated into their families lives.

Many of my students come back and tell me that they helped their dad, grandpas, and other family members install the energy conserving devices. I even have a few former students siblings tell me that they are still using the items that they installed last year. That is awesome!

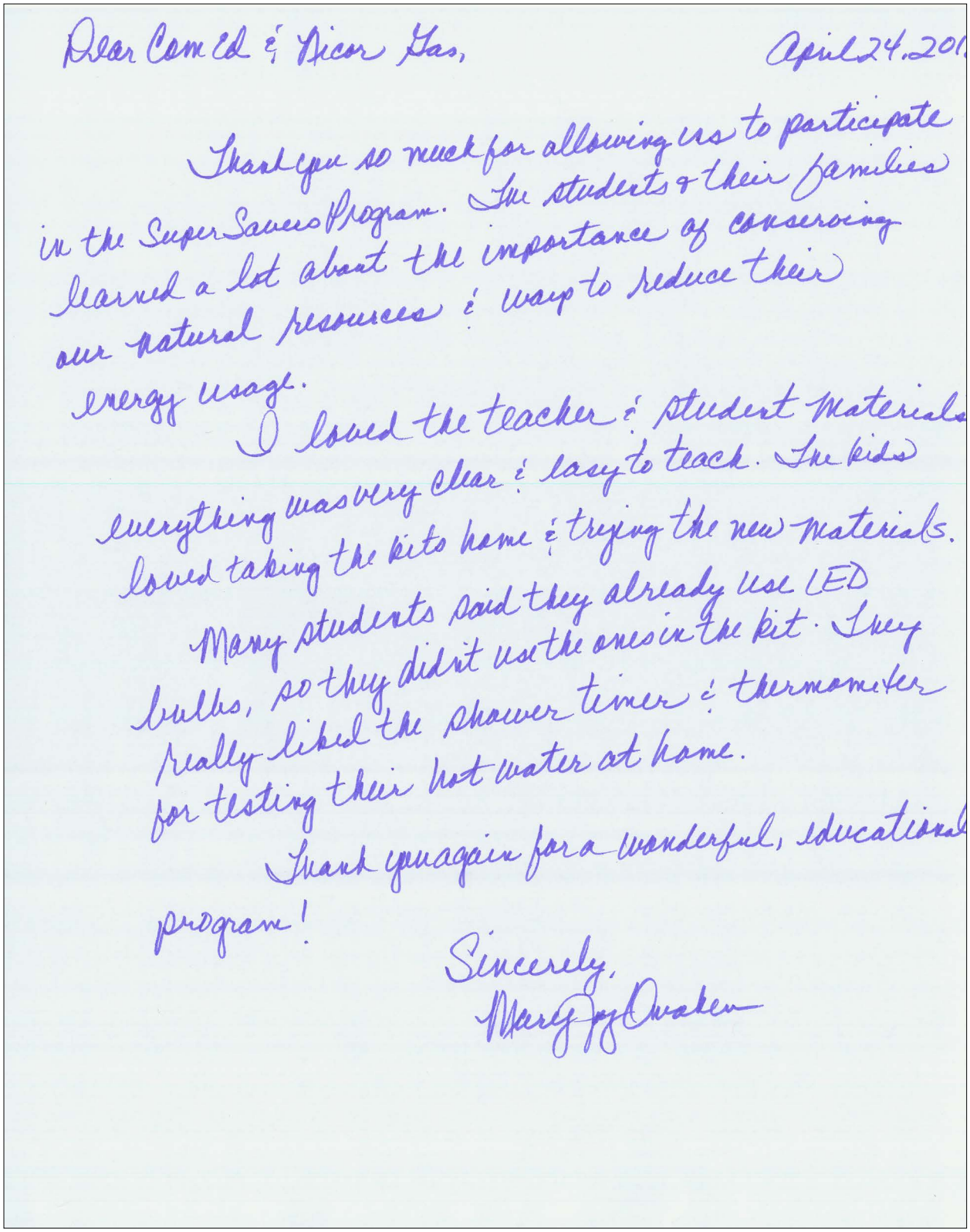
Thank you again so much for providing the opportunity with continued support of conserving our Earth's resources

Sincerely,

Lorie Meade
5th Grade/Team Leader

Teacher Letters

(A summary of responses can be found in Appendix F)



Dear ComEd & Nicor Gas, April 24, 201

Thank you so much for allowing us to participate in the SuperSavers Program. The students & their families learned a lot about the importance of conserving our natural resources & ways to reduce their energy usage.

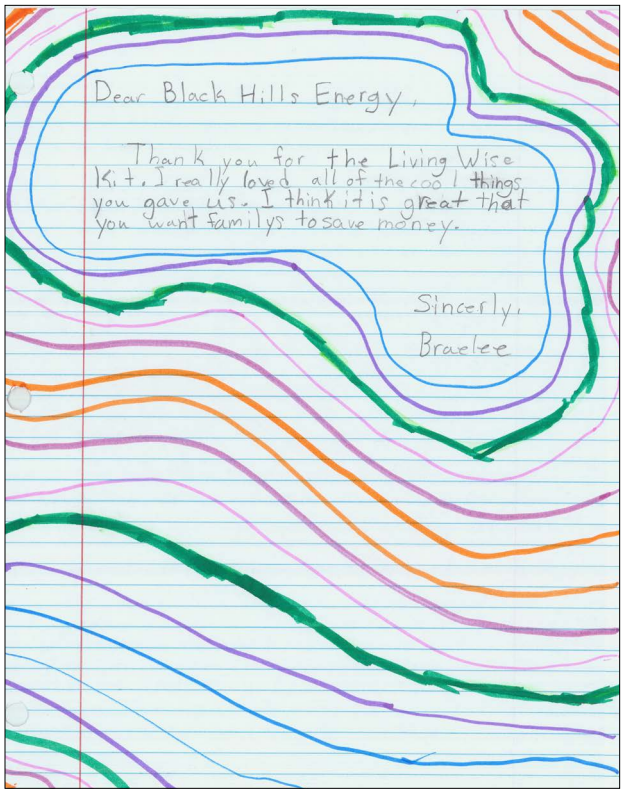
I loved the teacher & student materials everything was very clear & easy to teach. The kids loved taking the kits home & trying the new materials. Many students said they already use LED bulbs, so they didn't use the ones in the kit. They really liked the shower timer & thermometer for testing their hot water at home.

Thank you again for a wonderful, educational program!

Sincerely,
Mary Joy Dvorak

G. Student Letters

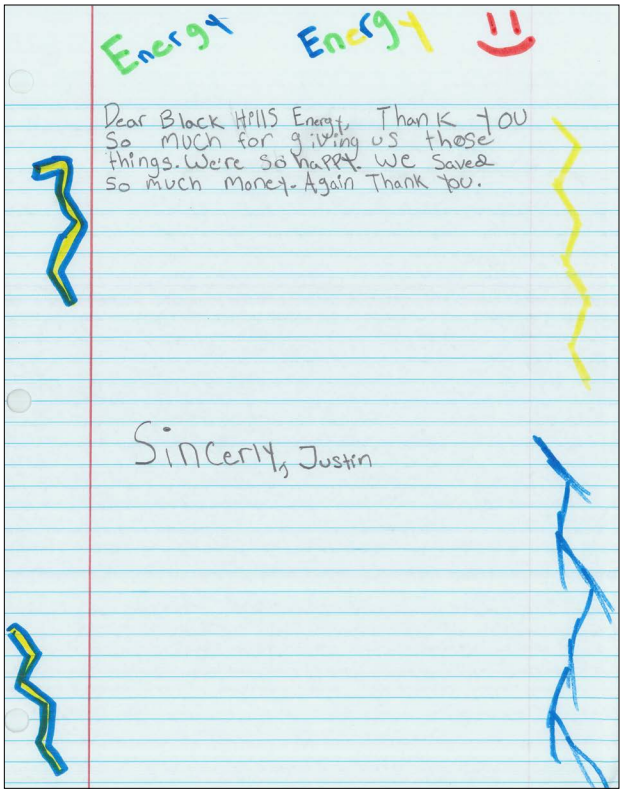
(A summary of responses can be found in Appendix G)



Dear Black Hills Energy,

Thank you for the Living Wise Kit. I really loved all of the cool things you gave us. I think it is great that you want familys to save money.

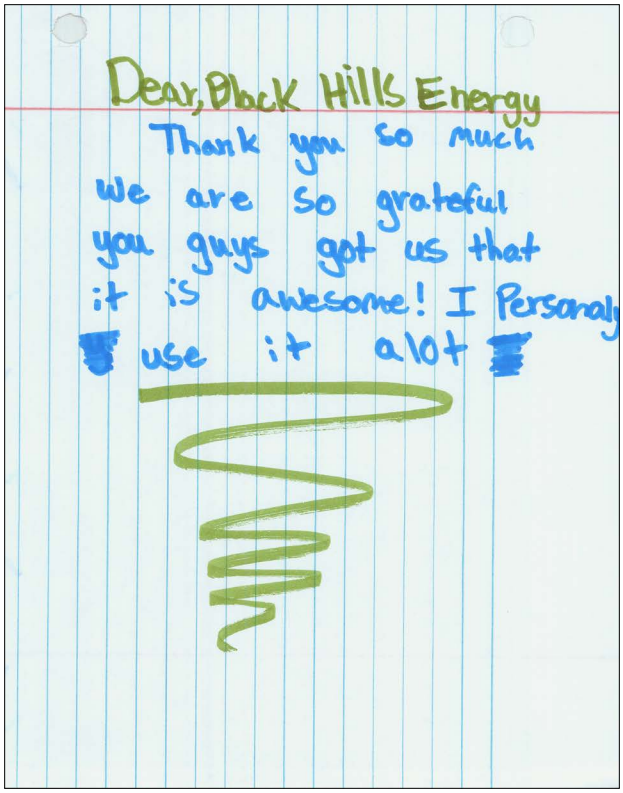
Sincerly,
Braelee



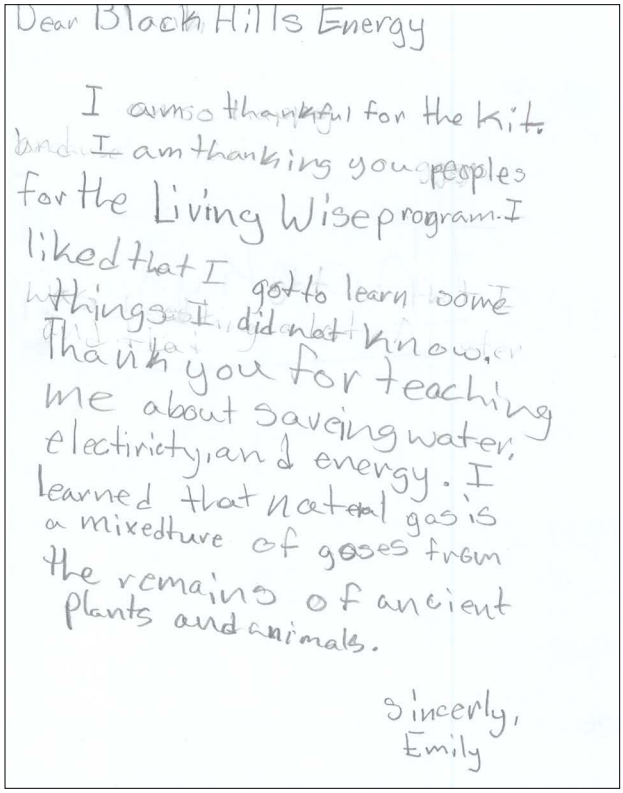
Energy Energy

Dear Black Hills Energy, Thank you So much for giving us those things. Were so happy. We saved so much money. Again Thank you.

Sincerly, Justin



Dear, Black Hills Energy
Thank you so much
we are so grateful
you guys got us that
it is awesome! I Personaly
use it a lot



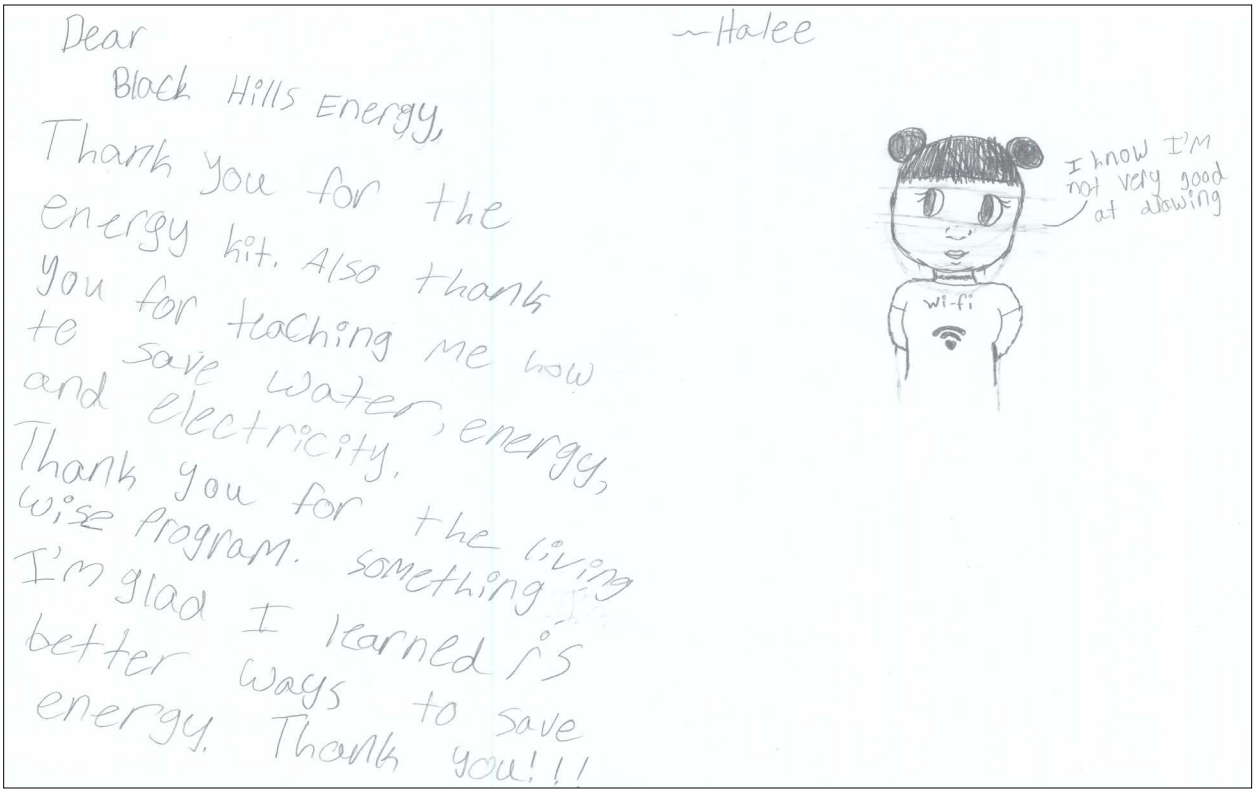
Dear Black Hills Energy

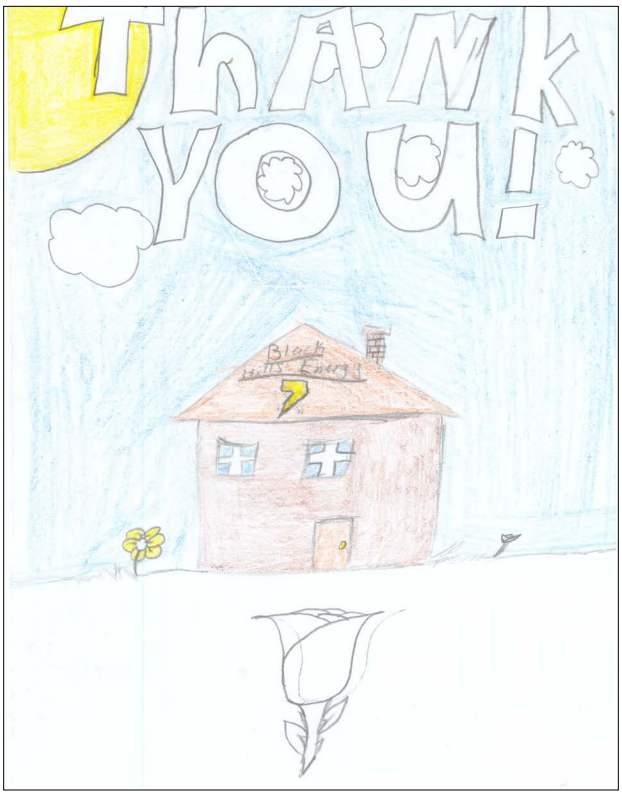
I am so thankful for the kit. And I am thanking you peoples for the Living Wise program. I liked that I got to learn some things I did not know. Thank you for teaching me about saveing water, electricty, and energy. I learned that natural gas is a mixedture of goses from the remains of ancient plants and animals.

Sincerly,
Emily

Student Letters

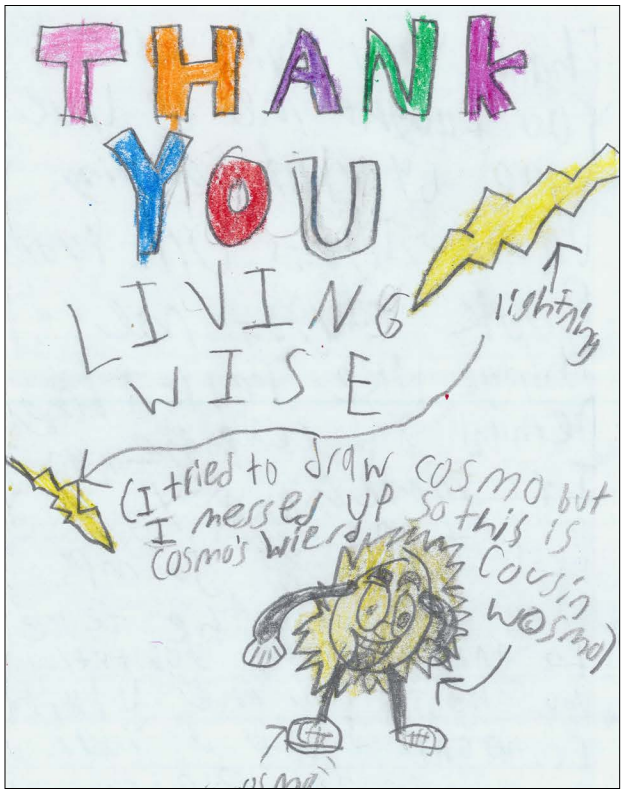
(A summary of responses can be found in Appendix G)

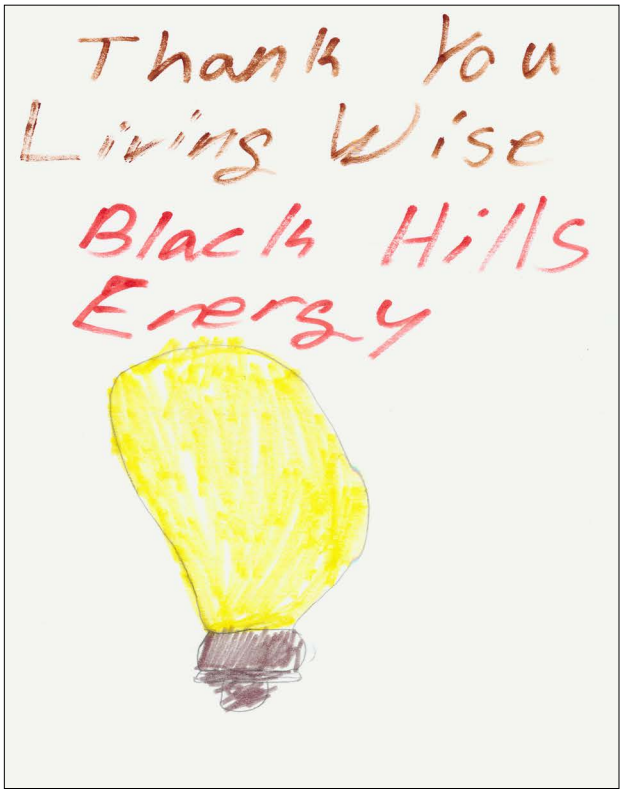


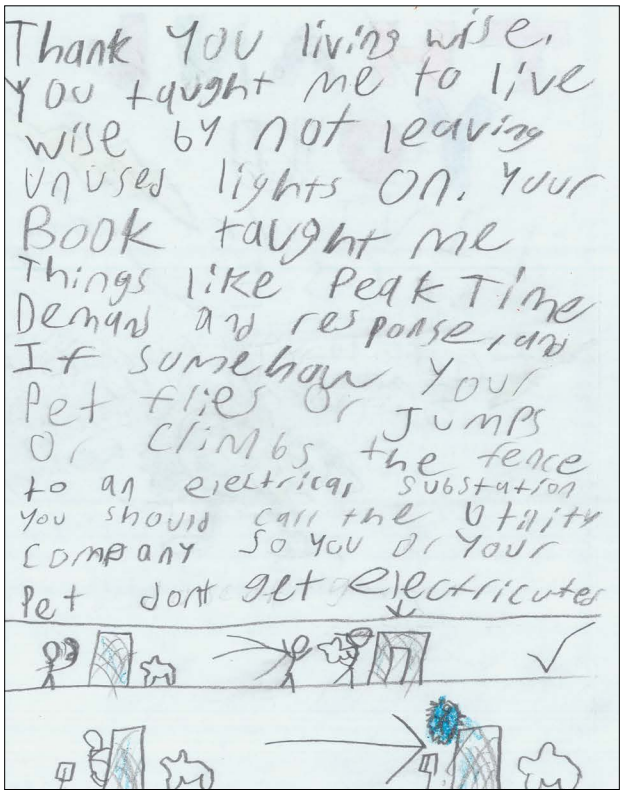


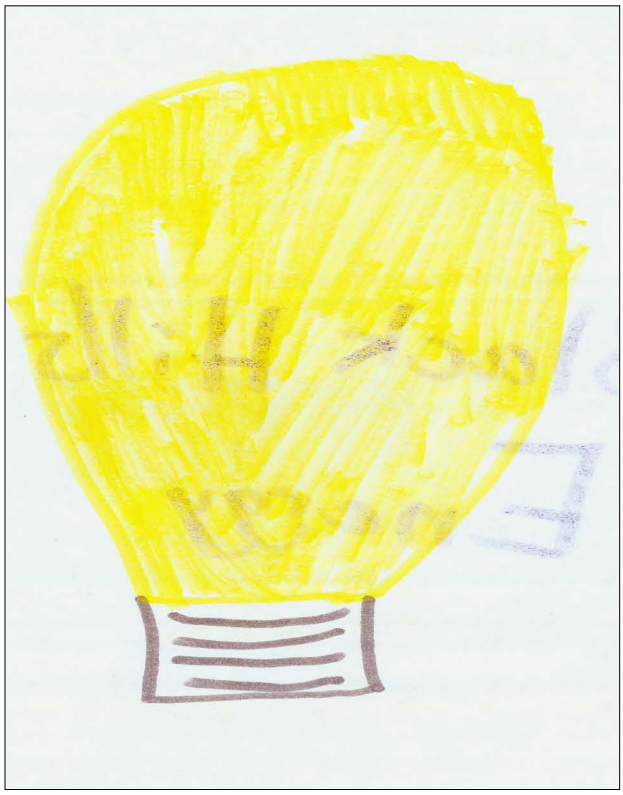
Student Letters

(A summary of responses can be found in Appendix G)









"As a teacher, what I liked about the program was that it got the students excited about energy and conservation."

Kelsey Trimble, Teacher
Vandenberg Elementary School

Appendices

Appendix A

Appendix B

Appendix C

Appendix D

Appendix E

Appendix F

Appendix G

Projected Savings from Showerhead Retrofit

Showerhead retrofit inputs and assumptions:

Average household size:	**4.79**	people[1]
Average number of full bathrooms per home:	**2.15**	full bathrooms per home[1]
% of water heated by gas:	**51.43%**	[1]
% of water heated by electricity:	**48.57%**	[1]
Installation / participation rate of:	**55.60%**	[1]
Average Showerhead has a flow rate of:	**2.50**	gallons per minute[2]
Retrofit Showerhead has flow rate of:	**1.75**	gallons per minute[3]
Number of participants:	**1,212**	[1]
Shower duration:	**8.20**	minutes per day[2]
Showers per day per person:	**0.67**	showers per day[2]
Product life:	**10.00**	years[3]

Projected Water Savings:

Showerhead retrofit projects an **annual** reduction of:	**2,263,392**	gallons[4]
Showerhead retrofit projects a **lifetime** reduction of:	**22,633,919**	gallons[5]

Projected Electricity Savings:

Showerhead retrofit projects an **annual** reduction of:	**144,456**	kWh[2,6]
Showerhead retrofit projects a **lifetime** reduction of:	**1,444,561**	kWh[2,7]

Projected Natural Gas Savings:

Showerhead retrofit projects an **annual** reduction of:	**7,648**	therms[2,8]
Showerhead retrofit projects a **lifetime** reduction of:	**76,477**	therms[2,9]

1 Data Reported by Program Participants.

2 (March 4, 2010). EPA WaterSense® Specification for Showerheads Supporting Statement. Retrieved from http://www.epa.gov/WaterSense/docs/showerheads_finalsuppstat508.pdf

3 Provided by manufacturer.

4 [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days

5 [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days x Product Life

6 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity

7 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity x Product Life

8 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas

9 Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Product Life

Projected Savings from Kitchen Faucet Aerator Retrofit

Kitchen Faucet Aerator retrofit inputs and assumptions:

Average household size:	**4.79**	people[1]
% of homes with a dishwasher:	**83.44%**	[1]
% of homes without a dishwasher:	**16.56%**	[1]
% of water heated by gas:	**51.43%**	[1]
% of water heated by electricity:	**48.57%**	[1]
Installation / participation rate of:	**36.44%**	[1]
Number of participants:	**1,212**	[1]
Average Kitchen Faucet Aerator has a flow rate of:	**2.50**	gallons per minute[2]
Retrofit Kitchen Faucet Aerator has flow rate of:	**1.50**	gallons per minute[3]
Product life:	**5.00**	years[3]
Length of use without dishwasher:	**15.00**	minutes per day[4]
Length of use without dishwasher (each family member):	**1.00**	minute per day[4]
Length of use with dishwasher:	**3.00**	minutes per day[4]
Length of use with dishwasher (each family member):	**0.50**	minutes per day[4]

Projected Water Savings:

Kitchen Faucet Aerator retrofit projects an **annual** reduction of:	**1,254,492**	gallons[5]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**6,272,459**	gallons[6]

Projected Electricity Savings:

Kitchen Faucet Aerator retrofit projects an **annual** reduction of:	**57,834**	kWh[4,7]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**289,170**	kWh[4,8]

Projected Natural Gas Savings:

Kitchen Faucet Aerator retrofit projects an **annual** reduction of:	**3,135**	therms[4,9]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**15,675**	therms[4,10]

1 Data Reported by Program Participants.

2 Vickers, Amy (2002). Water Use and Conservation. Amherst, MA: WaterPlow Press.

3 Provided by manufacturer.

4 Quantec, LLC. (2008). Impact of Flipping the Switch: Evaluating the Effectiveness of Low Income Residential Energy Education Programs. Portland: Drakos, Jamie et al.

5 {Length of use without dishwasher + [Average household size x Length of use without dishwasher (each family member))] x % of homes without dishwasher} + {Length of use with dishwasher + [Average household size x Length of use with dishwasher (each family member))] x % of homes with dishwasher} x [Average Kitchen Aerator flow rate – Retrofit Kitchen Aerator flow rate] x Number of participants x Installation rate x 365 days

6 {Length of use without dishwasher + [Average household size x Length of use without dishwasher (each family member))] x % of homes without dishwasher} + {Length of use with dishwasher + [Average household size x Length of use with dishwasher (each family member))] x % of homes with dishwasher} x [Average Kitchen Aerator flow rate – Retrofit Kitchen Aerator flow rate] x Number of participants x Installation rate x 365 days x Product Life

7 Projected Annual Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (3413 x water heater efficiency (0.90)] x % of Water Heated by Electricity

8 Projected Lifetime Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (3413 x water heater efficiency (0.90)] x % of Water Heated by Electricity

9 Projected Annual Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (100,000 x water heater efficiency (0.60)] x % of Water Heated by Natural Gas

10 Projected Lifetime Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (100,000 x water heater efficiency (0.60)] x % of Water Heated by Natural Gas

Projected Savings from Toilet Leak Repair

Toilet Leak repair inputs and assumptions:

Number of participants:	**1212**	[1]
% of toilets leaking:	**15.00%**	[1]
% of toilets where the leak was repaired:	**24.62%**	[1]
Number of homes with fixed toilet leaks:	**44.751**	[1]
USGS gallons lost per year per leak:	**12,621.29**	GPY per leak[2]
Product Life (years of water savings):	**5.00**	years[3]

Projected Water Savings:

Toilet Leak Repair projects an **annual** reduction of:	**564,812**	gallons/year[4]
Toilet Leak Repair projects a **lifetime** reduction of:	**2,824,062**	gallons[5]

1 Data Reported by Program Participants.

2 http://www.epa.gov/WaterSense/pubs/fixleak.html

3 Estimation of years before toilet begins leaking again. Frontier and Associates

4 USGS gallons lost per year per leak x 1 leak per home x Number of homes with fixed toilet leaks

5 USGS gallons lost per year per leak x 1 leak per home x Number of homes with fixed toilet leaks x Product Life

Projected Savings from FilterTone® Alarm Installation

FilterTone® installation inputs and assumptions:

Annual energy (electricity) use by a central system air conditioner:	**1,637**	kWh[1]
Annual energy (natural gas) use by central space heating or furnace:	**173**	therms[1]
Projected increase in efficiency (electricity):	**1.75%**	[2]
Projected increase in efficiency (natural gas):	**0.92%**	[2]
Product life:	**10.00**	years[3]
Installation / participation rate of:	**32.45%**	[4]
Number of participants:	**1,212**	[4]

Projected Electricity Savings:

The FilterTone installation projects an **annual** reduction of:	**11,267**	kWh[5]
The FilterTone installation projects a **lifetime** reduction of:	**112,670**	kWh[6]

Projected Natural Gas Savings:

The FilterTone installation projects an **annual** reduction of:	**626**	therms[7]
The FilterTone installation projects a **lifetime** reduction of:	**6,260**	therms[8]

1 U.S. Department of Energy, Energy Information Administration 2005 Residential Energy Consumption Web site for California: http://www.eia.gov/consumption/residential/data/2005/

2 Reichmuth P.E., Howard. (1999). Engineering Review and Savings Estimates for the 'Filtertone' Filter Restriction Alarm.

3 Provided by manufacturer.

4 Data reported by program participants.

5 Annual energy (electricity) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (electricity) x Installation rate x Number of participants

6 Annual energy (electricity) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (electricity) x Installation rate x Number of participants x Product life

7 Annual energy (natural gas) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (natural gas) x Installation rate x Number of participants

8 Annual energy (natural gas) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (natural gas) x Installation rate x Number of participants x Product life

Projected Savings from LED Light Bulb Retrofit

LED Light Bulb retrofit inputs and assumptions:

Product life:	**20.00**	years[1]
Watts used by the LED light bulb:	**9**	watts[1]
Hours of operation per day:	**2.81**	hours per day[2]
Average watts used by the replaced light bulb:	**56.09**	watts[3]
Installation / participation rate of:	**71.18%**	[3]
Number of participants:	**1,212**	[3]

Projected Electricity Savings:

The LED Light Bulb retrofit projects an **annual** reduction of:	**41,662**	kWh[2,4]
The LED Light Bulb retrofit projects a **lifetime** reduction of:	**406,203**	kWh[2,5]

1 Provided by manufacturer.

2 Frontier Associates. (2011). Oncor's LivingWise Program: Measurement & Verification Update.

3 Data reported by program participants.

4 {[(Average wattage of light bulb replaced - Wattage of LED light bulb) x Hours of operation per day x 365 Days] ÷ 1,000} x Number of participants x Installation rate

5 {[(Average wattage of light bulb replaced - Wattage of LED light bulb) x Product Life] ÷ 1,000} x Number of participants x Installation rate

Projected Savings from LED Night Light Retrofit

LED Night Light retrofit inputs and assumptions:

Average length of use:	**4,380**	hours per year[1]
Average night light uses:	**7**	watts
Retrofit night light uses:	**0.50**	watts
Product life:	**10.00**	years[2]
Energy saved per year:	**28**	kWh per year
Energy saved over life expectancy:	**285**	kWh
Retrofit / participation rate of:	**85.84%**	[3]
Number of participants:	**1,212**	[3]

Projected Electricity Savings:

The LED Night Light retrofit projects an **annual** reduction of:	**29,620**	kWh[4]
The LED Night Light retrofit projects a **lifetime** reduction of:	**296,199**	kWh[5]

1 Assumption (12 hours per day)

2 Product life provided by manufacturer

3 Data reported by program participants

4(kWh per year x Number of participants) x Installation rate

5((kWh per year x Number of participants) x Installation rate) x Product life

Home Check-Up

1 How many kids live in your home (age 0-17)?

1	13%
2	33%
3	32%
4	14%
5	9%

2 How many adults live in your home (age 18+)?

1	14%
2	71%
3	10%
4	3%
5+	2%

3 How is your water heated?

Natural Gas	35%
Electricity	49%
Propane	17%

4 Does your home have a dishwasher?

Yes	83%
No	17%

5 How many half-bathrooms are in your home?

0	75%
1	20%
2	4%
3	2%
4+	0%

6 How many full bathrooms are in your home?

1	22%
2	48%
3	25%
4	3%
5+	2%

Due to rounding of numbers, percentages may not add up to 100%

Home Check-Up

(continued)

7 What fuel is used as the main source of energy to heat your home?

Natural Gas	28%
Electricity	52%
Heating Oil	1%
Wood	5%
Propane	13%
Other	2%

8 What type of air conditioning unit do you have?

Central Air Conditioner	69%
Evaporative Cooler	5%
Room Unit	17%
Don't Have One	9%

9 What type of home do you live in?

Single Family home	77%
Multi-Family (2-4 units)	15%
Multi-Family (5-20 units)	7%
Multi-Family (21+ units)	2%

10 Was your home built before 1992?

Yes	48%
No	52%

11 Is your home owned or rented?

Owned	74%
Rented	26%

Due to rounding of numbers, percentages may not add up to 100%

Home Activities

1 Did you install the new High-Efficiency Showerhead?	
Yes	56%
No	44%
2 Did your family install the new Kitchen Faucet Aerator?	
Yes	36%
No	64%
3 Was your toilet leaking?	
Yes	15%
No	85%
4 If you answered "yes" to question 3, were the leaks repaired?	
Yes	25%
No	75%
5 Did your family install the LED Light Bulb?	
Yes	71%
No	29%
6 If you answered "yes" to question 5, what was the wattage of the incandescent bulb you replaced?	
40-watt	9%
60-watt	33%
75-watt	14%
100-watt	7%
Other	36%
7 Did your family install the FilterTone Alarm?	
Yes	32%
No	68%
8 How much did your family turn down the thermostat in winter for heating?	
1 - 2 Degrees	15%
3 - 4 Degrees	12%
5+ Degrees	8%
Didn't Adjust Thermostat	65%
9 How much did your family turn up the thermostat in summer for cooling?	
1 - 2 Degrees	13%
3 - 4 Degrees	12%
5+ Degrees	10%
Didn't Adjust Thermostat	64%

Due to rounding of numbers, percentages may not add up to 100%

Home Activities

(continued)

10 Did your family install the LED Night Light?	
Yes	86%
No	14%
11 Did your family lower your water heater settings?	
Yes	16%
No	84%
12 Did your family raise the temperature on your refrigerator?	
Yes	14%
No	86%
13 Did you work with your family on this program?	
Yes	74%
No	26%
14 Did your family change the way they use water?	
Yes	52%
No	48%
15 Did your family change the way they use energy?	
Yes	60%
No	40%
16 How would you rate the LivingWise Program?	
Excellent	48%
Good	37%
Fair	12%
Poor	3%

Due to rounding of numbers, percentages may not add up to 100%

Participant List

SCHOOL	TEACHER	T	S
Black Hills Christian Academy	Linda Johnson	1	14
Canyon Lake Elementary School	Jason Bierle	1	31
Canyon Lake Elementary School	Kelsey Hammond	1	31
General Beadle Elementary	Martin Red Bear	1	30
General Beadle Elementary	Nicole Schartz	1	30
General Beadle Elementary	Sheridan Hansen	1	30
Grandview Elementary	Lauree Buus	1	22
Grandview Elementary	Elizabeth Timmerman	1	23
Grandview Elementary	Tammy Seefeldt	1	22
Grandview Elementary	Alex Whitney	1	24
Hill City Elementary School	Colleen Clapper	1	18
Hill City Elementary School	Matthew Henderson	1	17
Horace Mann Elementary School	Kallie Gebhard	1	25
Horace Mann Elementary School	Tamara Kerns	1	26
Hot Springs Elementary	Nancy Mulcahy	1	19
Hot Springs Elementary	Todd Phelps	1	18
Hot Springs Elementary	Koreen Hammel	1	17
Knollwood Heights Elementary School	Connie Ahrens	1	20
Knollwood Heights Elementary School	Christina Zephier	1	22
Knollwood Heights Elementary School	Matthew Long	1	22
Knollwood Heights Elementary School	Christine Waller	1	23
Lead-Deadwood Elementary School	Amy Vande Velde	1	67
Meadowbrook Elementary	Beth Chalberg	1	28
Meadowbrook Elementary	Patti Mitzel	1	28
Meadowbrook Elementary	Andrew Thimgan	1	28

Note: "T" represents number of teachers and "S" represents number of students

Participant List

(continued)

SCHOOL	TEACHER	T	S
Meadowbrook Elementary	Crystal Audiss	1	28
Piedmont Valley Elementary School	Josh Wilson	1	25
Piedmont Valley Elementary School	Cooper Stanforth	1	25
Piedmont Valley Elementary School	Paige Guy	1	30
Piedmont Valley Elementary School	Mike Skidmore	1	25
Rapid City Adventist Elementary School	Kelli Vigil	1	4
South Canyon Elementary	Karen Thorson	1	27
South Canyon Elementary	Mike Staedtler	1	27
St Paul's Lutheran School	Philip Miller	1	11
St. Elizabeth Ann Seton Elementary School	Heather Eldridge	1	60
Vandenberg Elementary School	John Oleson	1	25
Vandenberg Elementary School	Brandi Marler	1	25
Vandenberg Elementary School	Ronald Mays	1	25
Vandenberg Elementary School	Shawna Delaney	1	25
Vandenberg Elementary School	Sherry Nelson	1	25
Vandenberg Elementary School	Lorie Meade	1	25
Vandenberg Elementary School	Cathleen Denekamp	1	25
Vandenberg Elementary School	Wendee Casto	1	25
Vandenberg Elementary School	Kelsey Trimble	1	25
Vandenberg Elementary School	Mark Kenefick	1	25
Whitewood Elementary School	Alex Meehan	1	19
	TOTALS	**46**	**1,166**
	TOTAL PARTICIPANTS	**1,212**	

Note: "T" represents number of teachers and "S" represents number of students

Teacher Program Evaluation Data

1	The materials were clearly written and well organized.	
	Strongly Agree	63%
	Agree	37%
	Disagree	0%
	Strongly Disagree	0%
2	The products in the Kit were easy for students to use.	
	Strongly Agree	58%
	Agree	42%
	Disagree	0%
	Strongly Disagree	0%
3	Students indicated that their parents supported the program.	
	Yes	100%
	No	0%
4	Would you conduct this Program again?	
	Yes	100%
	No	0%
5	Would you recommend this program to other colleagues?	
	Yes	100%
	No	0%

Due to rounding of numbers, percentages may not add up to 100%

Teacher Comment Data

(continued from page 22)

What did students like best about the program? Explain.

"They liked installing the items."
Heather Eldridge, St. Elizabeth Ann Seton Elementary School

"The hands-on activities and kit to work with at home."
Sherry Nelson, Vandenberg Elementary School

"Receiving their kits."
Beth Chalberg, Meadowbrook Elementary

"The experiments and take home package."
Wendee Casto, Vandenberg Elementary School

"Taking the kits home and using them."
Andrew Thimgan, Meadowbrook Elementary

"Installing the kits at their homes."
Kelsey Trimble, Vandenberg Elementary School

What did you like best about the program? Explain.

"The lesson guide and questions."
Elizabeth Timmerman, Grandview Elementary

"Giving students the opportunity to explore during science time."
Alex Whitney, Grandview Elementary

"I like how everything is laid out so clearly."
Heather Eldridge, St. Elizabeth Ann Seton Elementary School

"Easy and educational learning."
Wendee Casto, Vandenberg Elementary School

"The student guide is filled with relevant material."
Andrew Thimgan, Meadowbrook Elementary

"Easy to use."
Tammy Seefeldt, Grandview Elementary

"All the materials."
Beth Chalberg, Meadowbrook Elementary

Parent/Guardian Program Evaluation Data

1 Was the Program easy for you and your child to use?

Yes	100%
No	0%

2 Will you continue to use the Kit items after the completion of the Program?

Yes	100%
No	0%

3 Would you like to see this Program continued in local schools?

Yes	100%
No	0%

Due to rounding of numbers, percentages may not add up to 100%

Teacher Letters

(continued from page 25)

May 1, 2018

Dear Black Hill Energy,

I want to thank you on the behalf of myself and my class for sponsoring the Living Wise Program We enjoyed the lessons, especially the group activities provided, and of course going through the kits and talking about ways to conserve in our homes was the class favorite.

The students were very excited to share their kits with their families. I noticed on the returned surveys, not as many products were installed and families involved, as I had hoped. But I did want the surveys returned as soon as possible (to qualify for the $50 grant) so I am hoping that more family involvement will be done at a later date.

Thank you again for your sponsorship of this program.

Beth Chalberg

Beth Chalberg
Meadowbrook Elementary

March 2, 2018

Dear Black Hills Energy,

I would like to thank you for choosing our class to participate in the Living Wise program. The program is very teacher friendly, easy to use in the classroom. The information and experiments you provide are very helpful. Most of my students did not know what a utility bill was until they had to work on one in class.

The kits are awesome. They provide some beneficial products to help the whole family save money, and teach the parents how to conserve as well.

Thank you,

Colleen Clapper

Fifth Grade Teacher

Hill City Elementary School

May 2, 2018

Dear Living Wise Program Coordinator,

I am writing to thank you for the opportunity to implement Living Wise into my 5th grade classroom. My students enjoy the book activities and posters. Mostly, they love the box of goodies that they take home! I love how it encourages families to work together. It also empowers the students to realize that there are things they can do to contribute to their household energy efficiency!

I appreciate all the work you go through to sponsor this program and to distribute the materials! I seemed to have misplaced my teacher survey. I apologize, but I have nothing but good things to say about the program you offer! PS I love the upgraded night light!

Thanks again!

Sincerely,

Cathleen Denekamp

Catheen Denekamp
5th grade
Vandenberg Elementary

Shireen Nelson
Vandenberg Elementary
516 Briggs
Box Elder, SD 57719

April 29, 2018

Living Wise Program
750 4th Street
Sparks, NV 89431-9998

To Whom It May Concern:

Thank you so much for giving my students the opportunity to participate in your program. I felt the materials were well organized and the students were excited to use their kits. Some were not able to install some of the items but were still able to participate in the classroom activities.

I loved that you included the science standards to support our curriculum. I was able to supplement with your program and feel that it took my kids to a higher level of learning. The students were engaged and were excited to learn more about conservation. Some are even convincing their parents to change things around the house.

Again thank you for this opportunity. It was well received by the staff and students.

Sincerely,

Shireen Nelson
Vandenberg Elementary, 5th Grade teacher

Student Letters

(continued from page 27)

Thank You

March 1 2018

Dear Black Hills Energy,
Thank you for the Living Wise kits. We installed the shower head and it is already saving my mom a lot of money. The rest of the items in the kit are very helpful too. I also thank you for teaching us about what we can do to conserve energy in our house. Thank you so much.

Sincerely,
Gavin Nonnast

Dear Black Hills Energy,

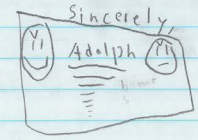
Thank you for teaching me about how to conserve energy. I learned a lot about how electricity works. Thank you for the kit. My family has installed some of the stuff in our home. I learned to take shorter showers, to not keep light's on if I'm not in that room, and I learned how to spot a phantom load. I'm really thankful of all the stuff in the kit. Thank you so much Black Hills Energy.

Sincerely,
Sydney Wathen

March 1, 2098

Dear black hills enargy
Thark you for the kit. I learned a lot about conserving energy. At my house I intend to install all the things I can so we don't waste things. I am greatfull for the living wise book because I learrd at lot. Like if you leave your divises pluged in all the time it's called a phantom load and that there is get to be less and less resorces to use for heat and power. Now that I know this I will try to prevent a loss of resorces.

Sincerely
Adolph



March 1, 2018

Dear Black Hills Energy,

Thank you so much for the kits! I loved learning how to preserve energy in several different ways.

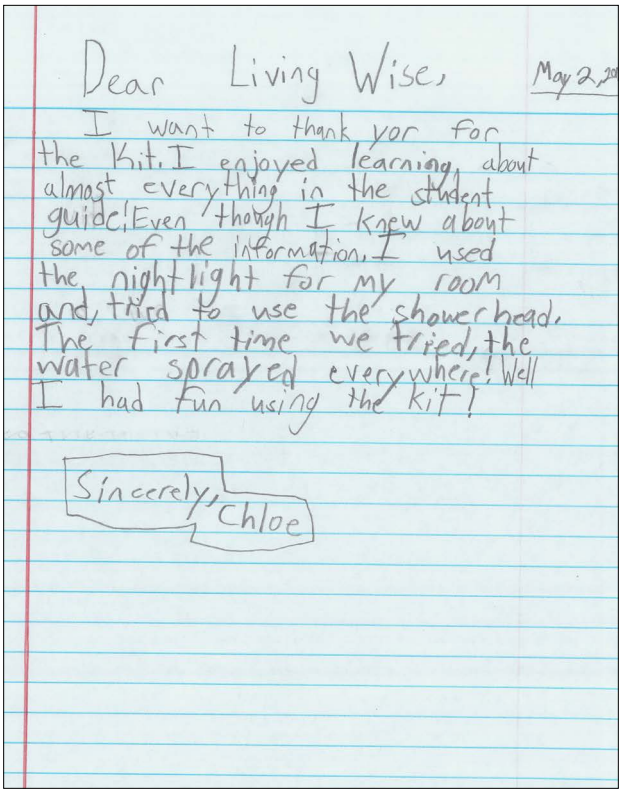
As for the kit, my family installed the light bulb and we used the toilet leak tablets. We had no leaks and the bulb is much better. We plan to use our other stuff in the near future.

My favorite part was learning that the way my family has been using energy was not that different than how the book told us. This kit is very helpful and it was FREE! What's better than that? Thank you!

Sincerly,
Ella Thomas

Student Letters

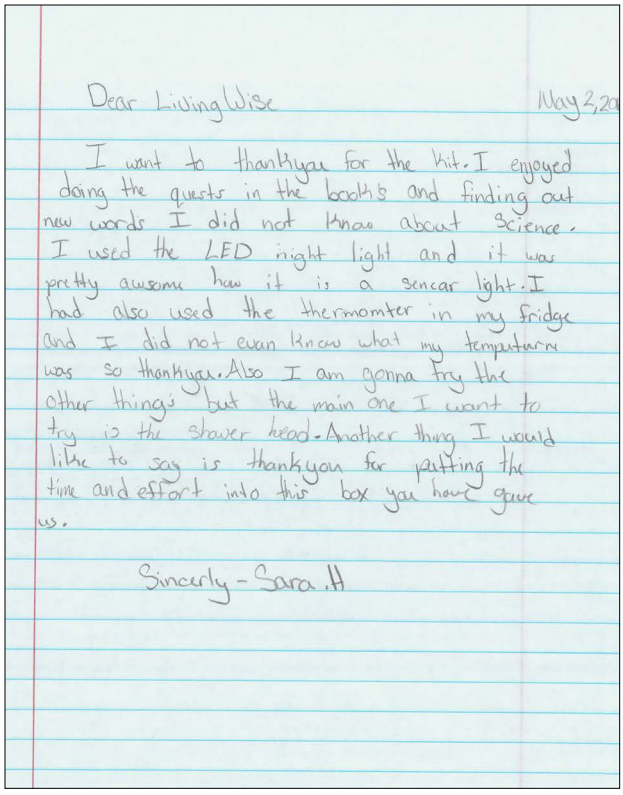
(continued)



Dear Living Wise, May 2,20

I want to thank yor for the Kit. I enjoyed learning about almost everything in the student guide. Even though I knew about some of the information, I used the nightlight for my room and, tried to use the showerhead. The first time we tried, the water sprayed everywhere! Well I had fun using the kit!

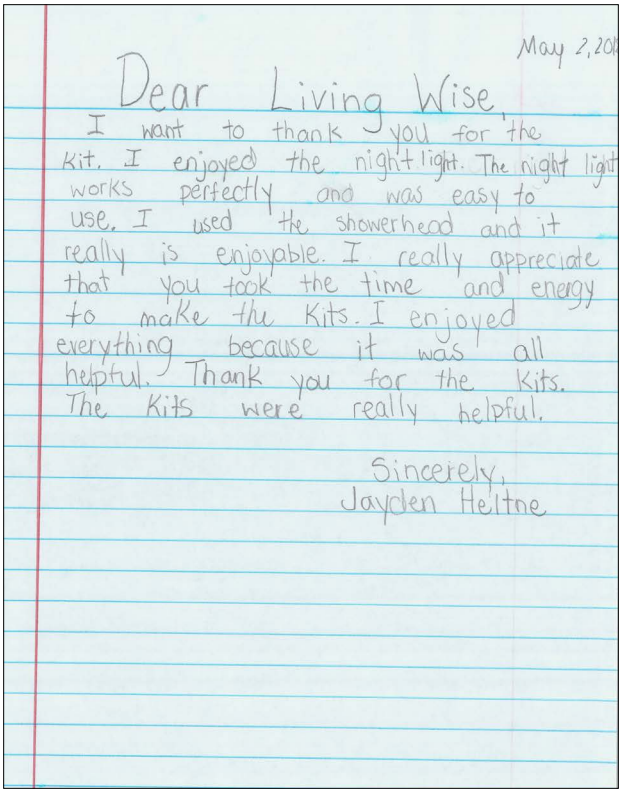
Sincerely, Chloe



Dear Living Wise May 2,20

I want to thankyou for the kit. I enjoyed doing the quests in the booklis and finding out new words I did not know about science. I used the LED night light and it was pretty awsome how it is a sencar light. I had also used the thermomter in my fridge and I did not even know what my temputurn was so thankyou. Also I am gonna try the other things but the main one I want to try is the shower head. Another thing I would like to say is thankyou for putting the time and effort into this box you have gave us.

Sincerly - Sara. H

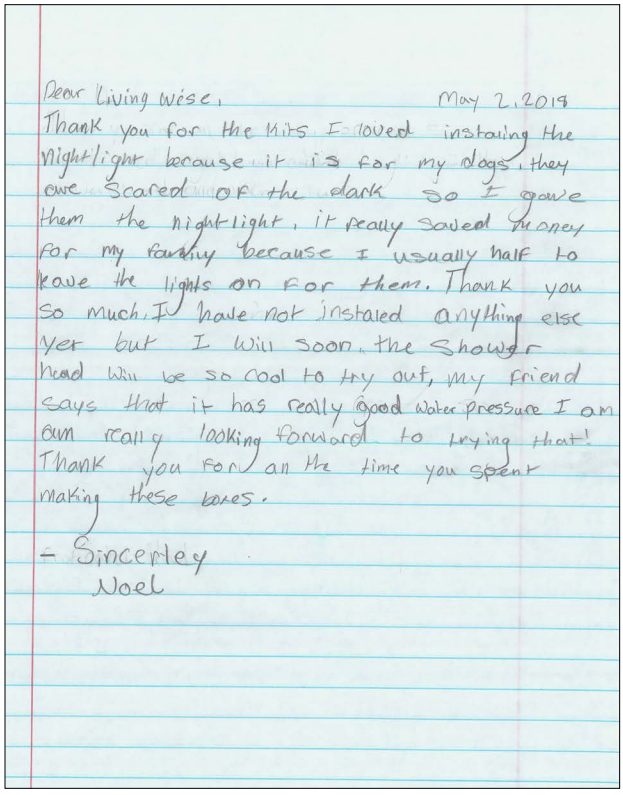


May 2, 20

Dear Living Wise,

I want to thank you for the kit. I enjoyed the night light. The night light works perfectly and was easy to use. I used the showerhead and it really is enjoyable. I really appreciate that you took the time and energy to make the Kits. I enjoyed everything because it was all helpful. Thank you for the kits. The Kits were really helpful.

Sincerely,
Jayden Heitne



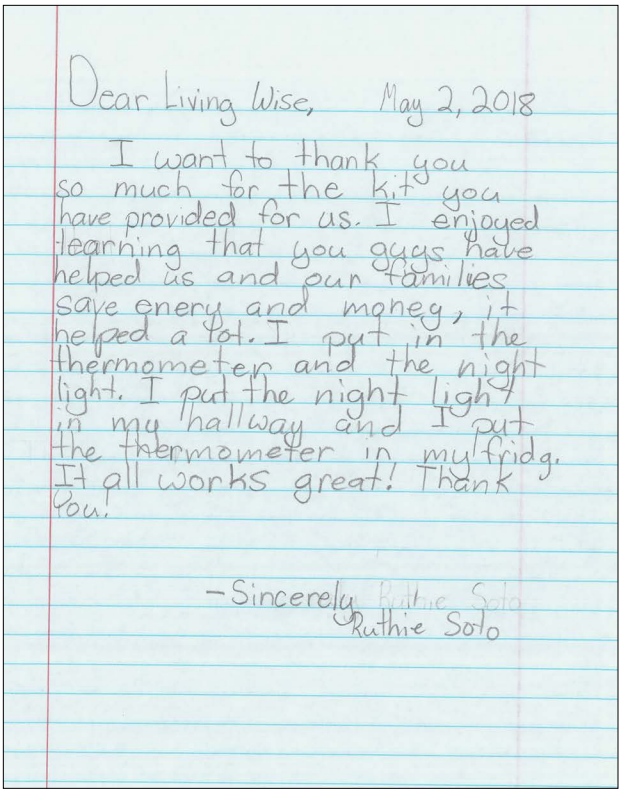
Dear Living wise, May 2, 2019

Thank you for the kits I loved instaling the nightlight because it is for my dogs, they awe scared of the dark so I gave them the nightlight, it really saved money for my family because I usually half to leave the lights on for them. Thank you so much. I have not instaled anything else yet but I will soon. the Shower head will be so cool to try out, my friend says that it has really good water pressure I am am really looking forward to trying that! Thank you for all the time you spent making these boxes.

- Sincerley
Noel

Student Letters

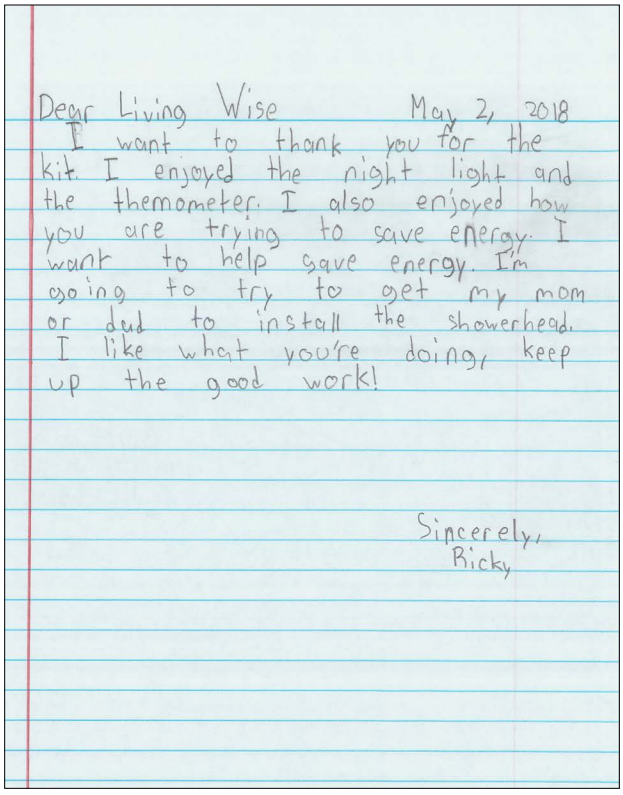
(continued)



Dear Living Wise, May 2, 2018

I want to thank you so much for the kit you have provided for us. I enjoyed learning that you guys have helped us and our families save enery and moneg, it helped a lot. I put in the thermometer and the night light. I put the night light in my hallway and I put the thermometer in my fridg. It all works great! Thank You.

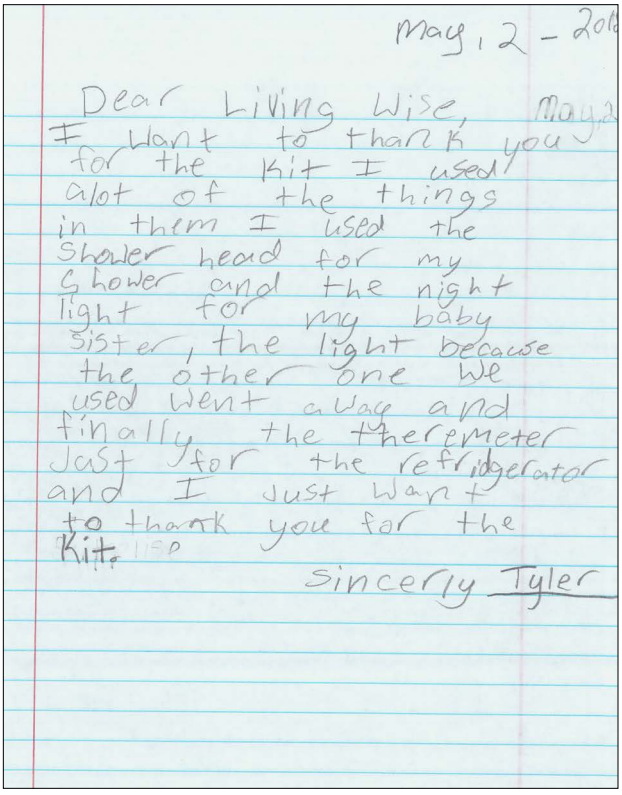
-Sincerely Ruthie Soto
Ruthie Soto



Dear Living Wise May 2, 2018

I want to thank you for the kit. I enjoyed the night light and the themometer. I also enjoyed how you are trying to save energy. I want to help save energy. I'm going to try to get my mom or dad to install the showerhead. I like what you're doing, keep up the good work!

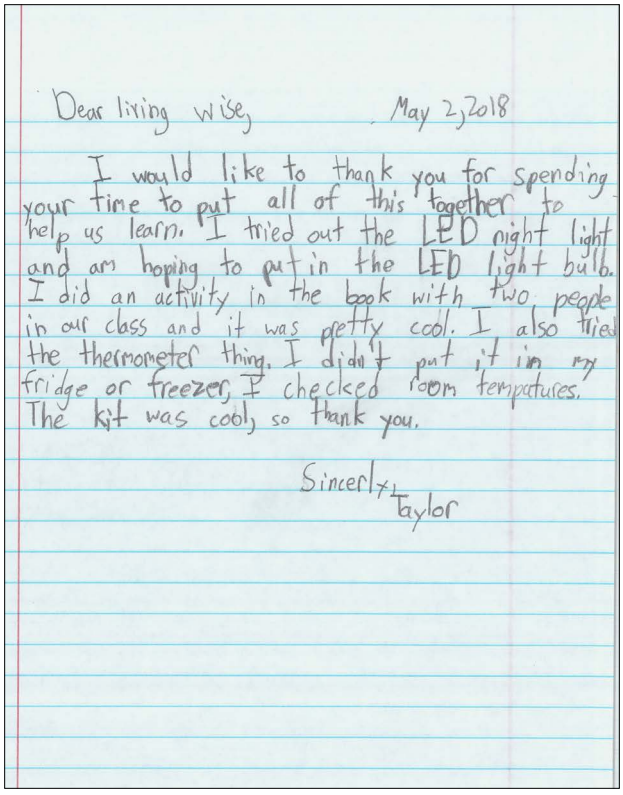
Sincerely,
Ricky



May, 2 - 20

Dear Living Wise, May,2
I want to thank you for the kit I used alot of the things in them I used the shower head for my shower and the night light for my baby sister, the light because the other one we used went away and finally the theremeter just for the refrigerator and I just want to thank you for the kit.

sincerly Tyler



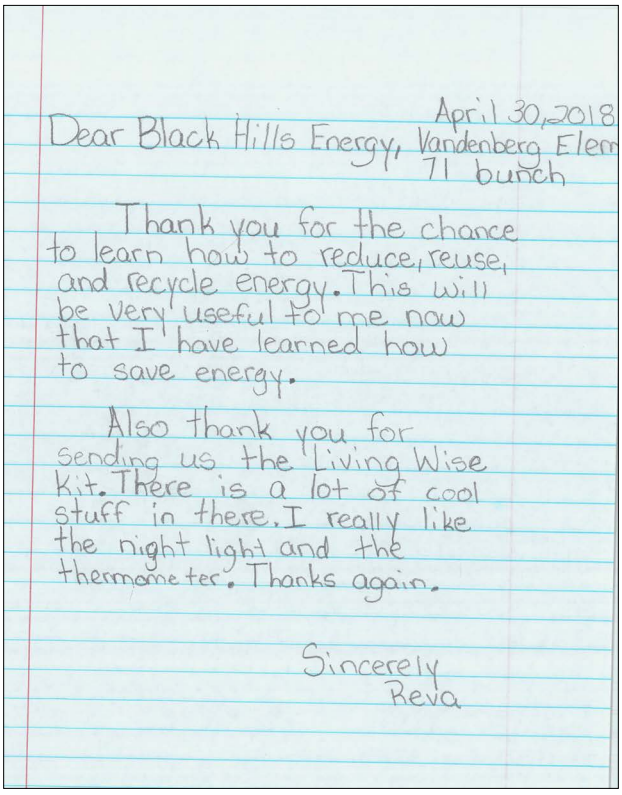
Dear living wise, May 2,2018

I would like to thank you for spending your time to put all of this together to help us learn. I tried out the LED night light and am hoping to put in the LED light bulb. I did an activity in the book with two people in our class and it was pretty cool. I also tried the thermometer thing. I didn't put it in my fridge or freezer, I checked room temperatures. The kit was cool, so thank you.

Sincerly,
Taylor

Student Letters

(continued)

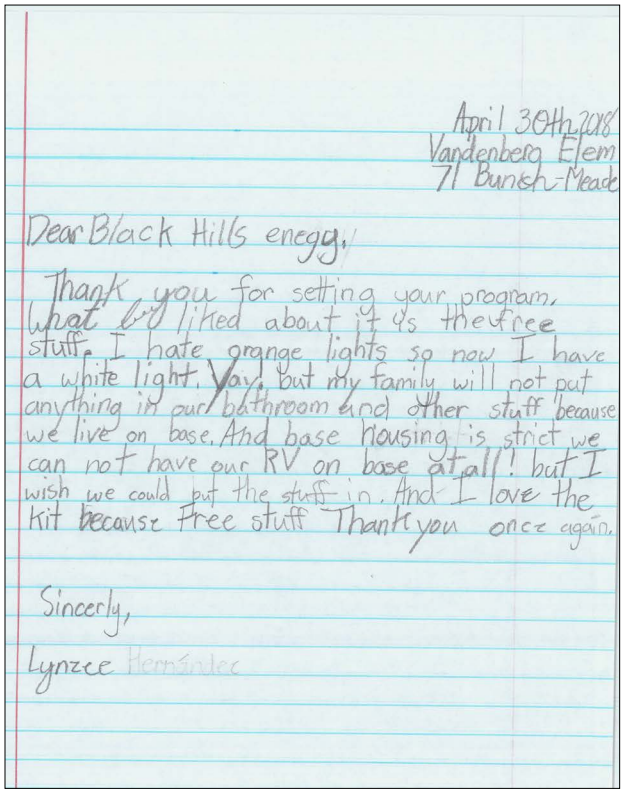


April 30, 2018
Dear Black Hills Energy, Vandenberg Elem
71 bunch

Thank you for the chance to learn how to reduce, reuse, and recycle energy. This will be very useful to me now that I have learned how to save energy.

Also thank you for sending us the Living Wise kit. There is a lot of cool stuff in there. I really like the night light and the thermometer. Thanks again.

Sincerely
Reva

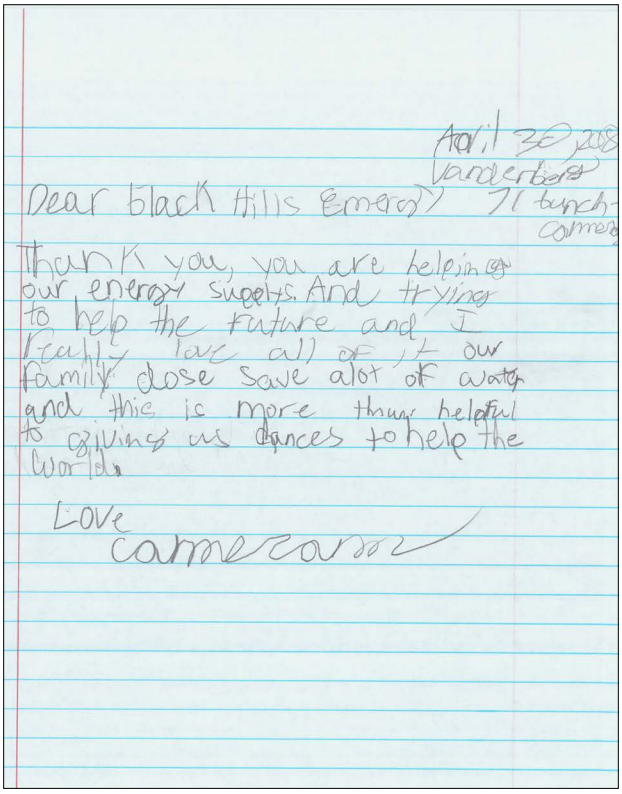


April 30th 2018
Vandenberg Elem
71 Bunch-Meade

Dear Black Hills enegy,

Thank you for setting your program. What I liked about it is the free stuff. I hate orange lights so now I have a white light. Yay. but my family will not put anything in our bathroom and other stuff because we live on base. And base housing is strict we can not have our RV on base at all! but I wish we could put the stuff in. And I love the kit because free stuff Thank you once again.

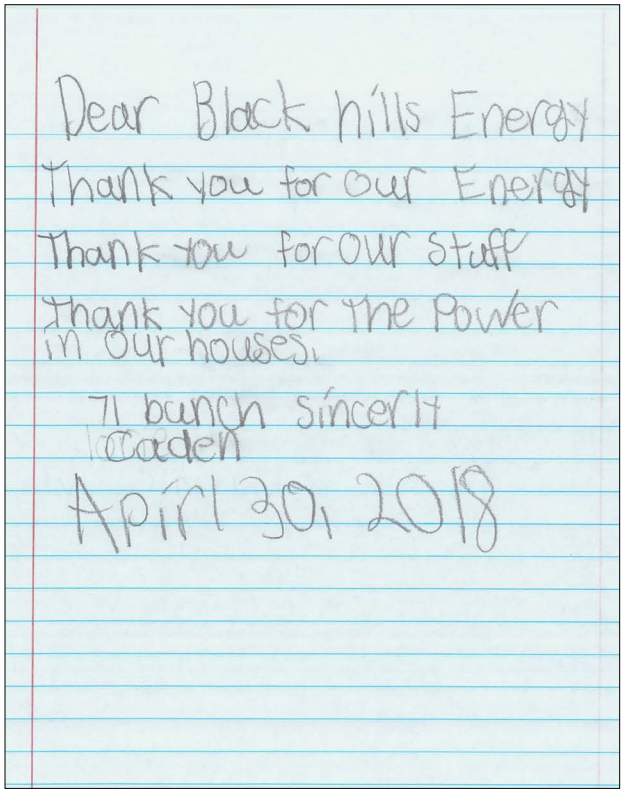
Sincerly,
Lynzee Hernández



April 30 2018
Vandenberg
Dear Black Hills Energy 71 bunch-Cameron

Thank you, you are helping our energy supplys. And trying to help the future and I really love all of it our family dose save alot of water and this is more than helpful to giving us dances to help the World.

Love
Cameron

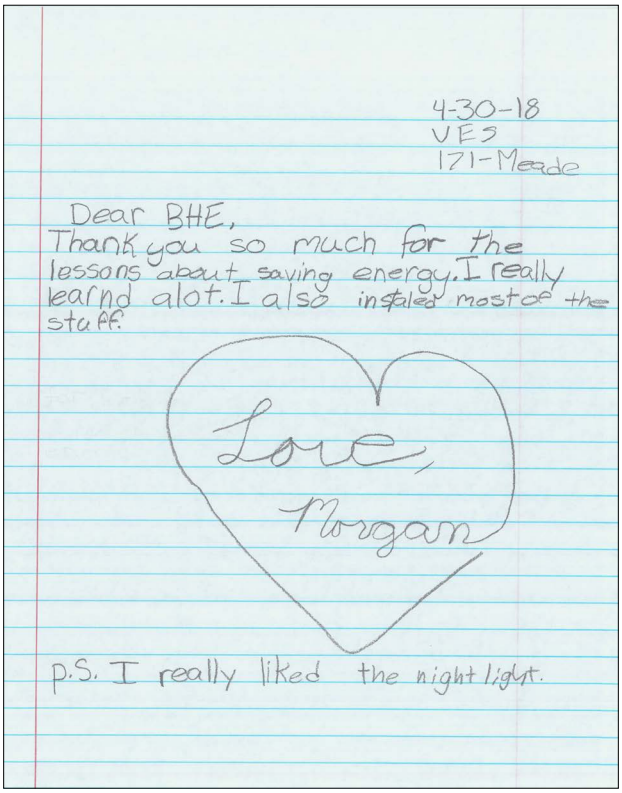


Dear Black hills Energy
Thank you for our Energy
Thank you for our stuff
Thank you for the Power in our houses.

71 bunch sincerly
Caden
April 30, 2018

Student Letters

(continued)

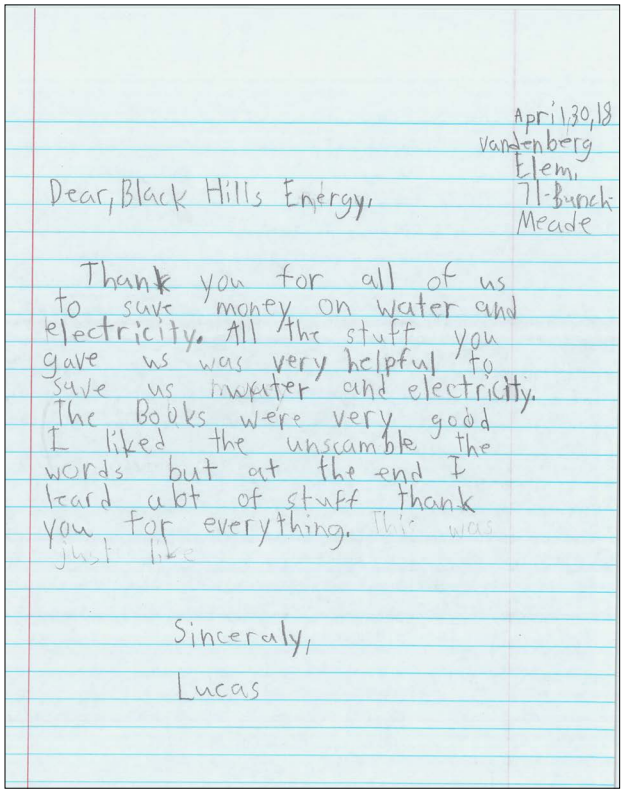


4-30-18
VES
171-Meade

Dear BHE,
Thank you so much for the lessons about saving energy. I really learnd alot. I also instaled most of the stuff.

Love,
Morgan

p.S. I really liked the night light.

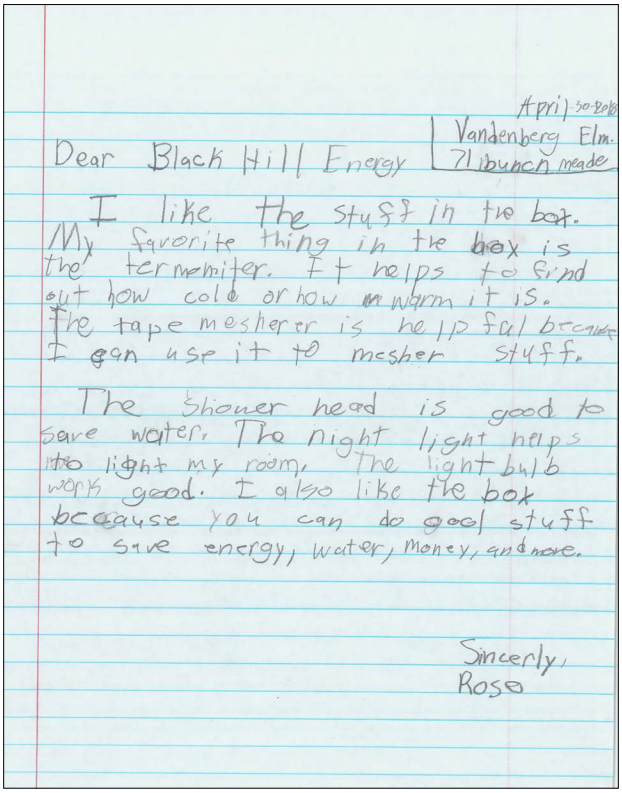


April 30, 18
Vandenberg Elem.
71-Bunch Meade

Dear, Black Hills Energy,

Thank you for all of us to save money on water and electricity. All the stuff you gave us was very helpful to save us mwater and electricity. The Books were very good I liked the unscramble the words but at the end I leard abt of stuff thank you for everything. This was just like

Sincerely,
Lucas



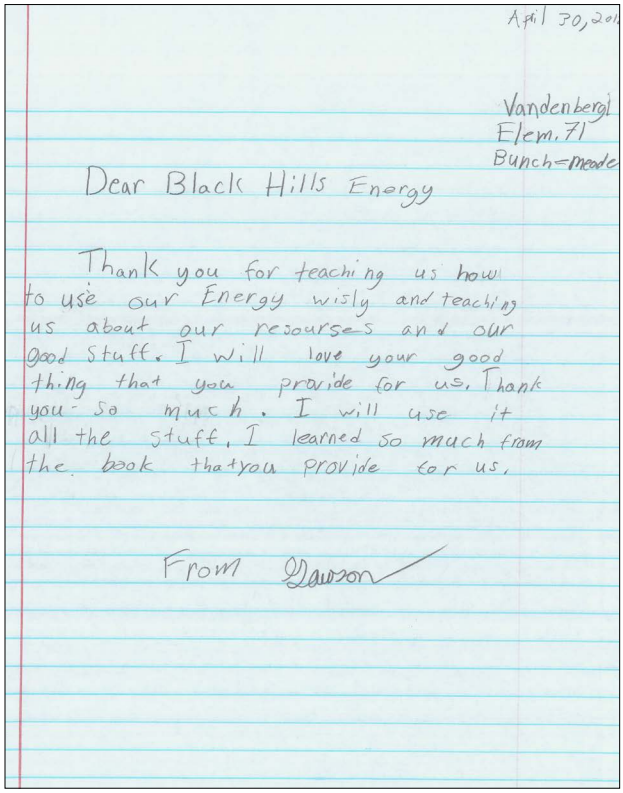
April 30-2018
Vandenberg Elm.
71 bunch meade

Dear Black Hill Energy

I like the stuff in the box. My favorite thing in the box is the termemiter. It helps to find out how cold or how warm it is. The tape mesherer is helpful because I can use it to mesher stuff.

The Shower head is good to save water. The night light helps me light my room. The light bulb works good. I also like the box because you can do cool stuff to save energy, water, money, and more.

Sincerly,
Rose



April 30, 201

Vandenberg
Elem. 71
Bunch-meade

Dear Black Hills Energy

Thank you for teaching us how to use our Energy wisly and teaching us about our resourses and our good stuff. I will love your good thing that you provide for us, Thank you so much. I will use it all the stuff, I learned so much from the book thatyou provide for us.

From Dawson

RESOURCE**ACTION**
PROGRAMS

A FRANKLIN ENERGY COMPANY

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