2015-2016

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

SUBMITTED BY:
RESOURCE ACTION PROGRAMS®

RESOURCEACTION PROGRAMS

Black Hills Energy LivingWise® Program Summary Report South Dakota Service Area 2015-2016

Made possible by:

Black Hills Energy
Improving life with energy

Submitted by:

RESOURCEACTION PROGRAMS

July 2016

"What I liked best about the program was listening to the stories that students shared about the kit — the program at home and the discussions they had with their families. Also, seeing their excitement to try to help their families conserve energy and save money."

Andrea Miller, Teacher
Pinedale Elementary School

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"The kits were a great visual aid to my students. Anytime I can have hands-on materials for my students they will have a better understanding of the concept being taught."

Nancy Mulcahy, Teacher
Hot Springs Elementary

Executive Summary

Resource Action Programs® (RAP) is pleased to present this Program Summary Report to Black Hills Energy, which summarizes the 2015-2016 Black Hills Energy LivingWise® Program in the South Dakota Service Area. The program was implemented in the Black Hills Energy service area in the state of South Dakota by 1,360 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

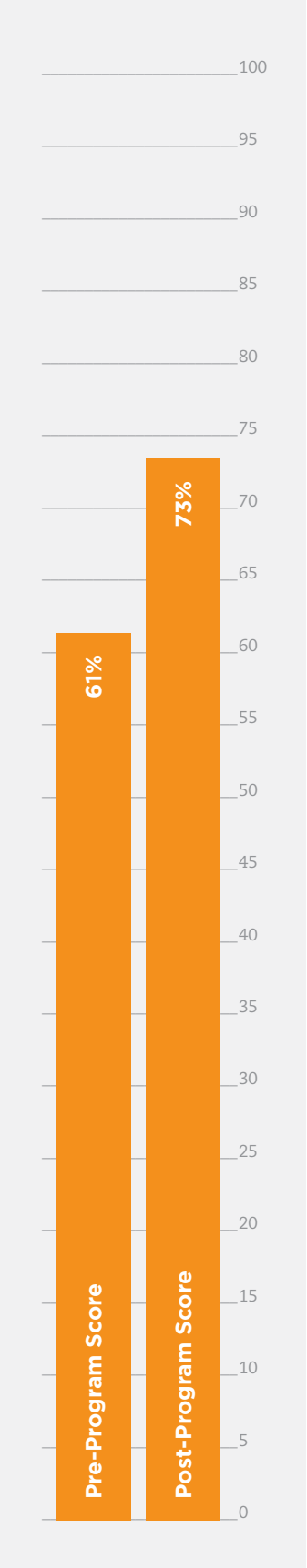
A successful program excites and engages participants. Students, parents, and teachers are asked to evaluate the program and provide personal comments. A sample of the feedback is given in the margin. ›

Teachers who indicated parents supported the program.

Teachers who indicated the products in the kit were easy to use.

Teachers who indicated the materials were clearly written and well organized.

A summary of responses can be found in Appendix D.



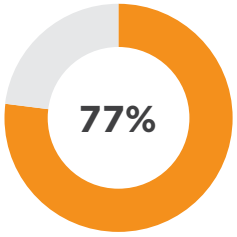
Knowledge Gained

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 **73%**.

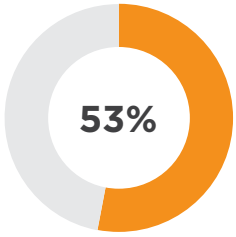
Data Obtained

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

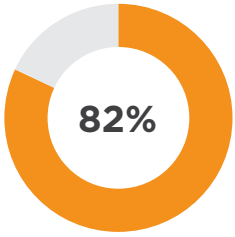
A summary of responses can be found in Appendix B.



Students who reported that their family home is owned.



Students who reported that their home was built before 1992.

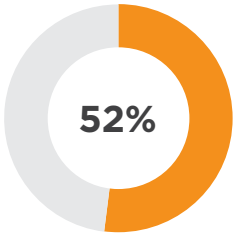


Students who reported that their home has a dishwasher.

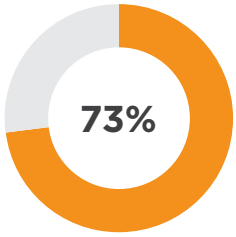
Measures Installed

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

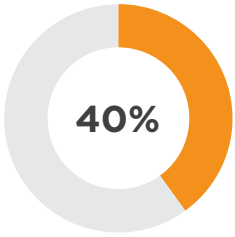
A summary of responses can be found in Appendix B.



Students who reported they installed the High-Efficiency Showerhead.



Students who reported they installed the LED Light Bulb.



Students who reported they installed the Kitchen Faucet Aerator.

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	
3,841,618	gallons of water saved
309,632	kWh of electricity saved
13,317	therms of gas saved
3,841,618	gallons of wastewater saved

PROJECTED LIFETIME SAVINGS	
30,714,340	gallons of water saved
2,748,523	kWh of electricity saved
114,734	therms of gas saved
30,714,340	gallons of wastewater saved

PROJECTED ANNUAL SAVINGS PER HOME	
2,825	gallons of water saved
228	kWh of electricity saved
10	therms of gas saved
2,825	gallons of wastewater saved

PROJECTED LIFETIME SAVINGS PER HOME	
22,584	gallons of water saved
2,021	kWh of electricity saved
84	therms of gas saved
22,584	gallons of wastewater saved

"Thank you for not just 'telling' but 'showing' my child how important it is to conserve our resources. The fixtures and the activities made it so real life. Thank you!"

Parent
Belle Fourche Middle School

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 2015-2016 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.

"Thank you for getting on the saving energy train. My kids are more conscious of lights and water. Can't wait to see my savings."

Philip Miller, Parent
St Paul's Lutheran School

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*
- LimeLite® Night Light
- LED Light Bulb
- 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

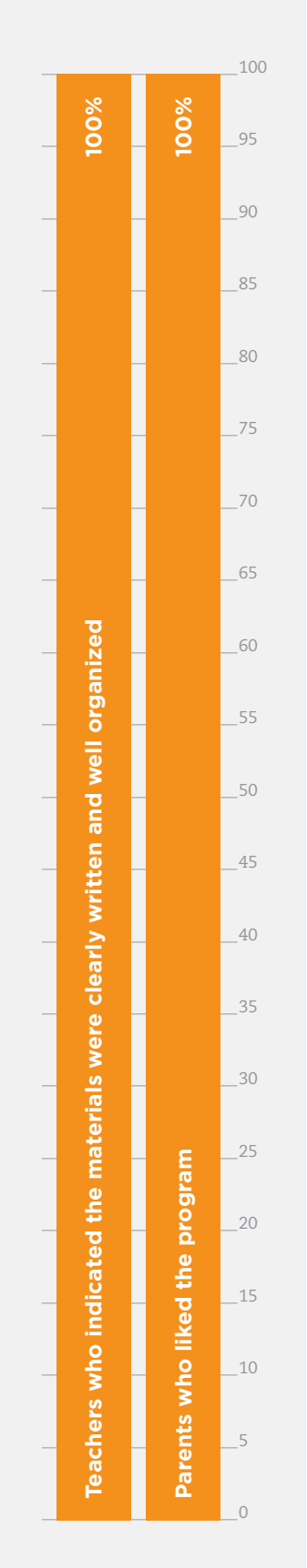
Teacher Program Evaluation

Pre/Post Student Survey Answer Keys

Electricity, Water, and Natural Gas Posters

Self-Addressed Postage-Paid Envelope

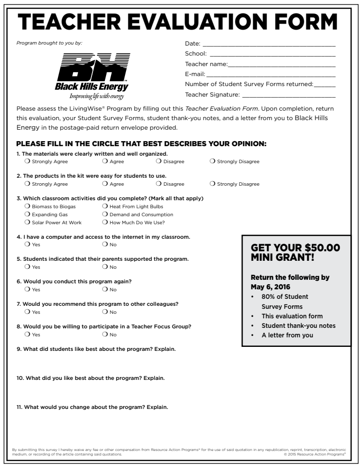
** Materials / Installation Instructions provided in English and Spanish*



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 Program Evaluation and Parent Letter/Pledge Form also feature Black Hills Energy branding.

Program Materials


TEACHER EVALUATION FORM

Program brought to you by: Black Hills Energy — Improving life with energy

Date:
School:
Teacher name:
E-mail:
Number of Student Survey Forms returned:
Teacher Signature:

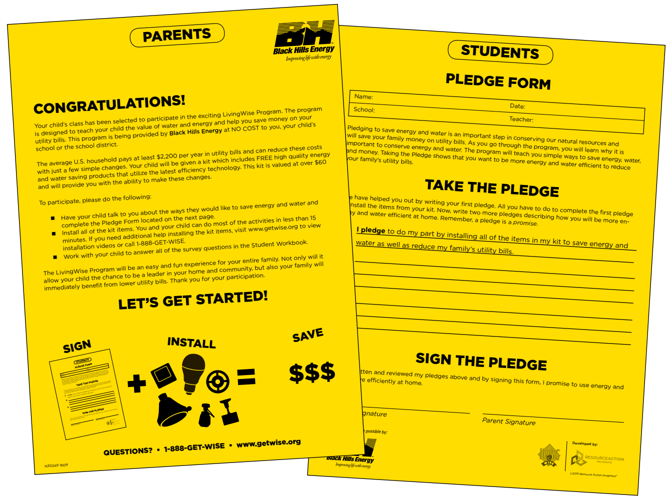
Please assess the LivingWise® Program by filling out this *Teacher Evaluation Form*. Upon completion, return this evaluation, your Student Survey Forms, student thank-you notes, and a letter from you to Black Hills Energy in the postage-paid return envelope provided.

PLEASE FILL IN THE CIRCLE THAT BEST DESCRIBES YOUR OPINION:

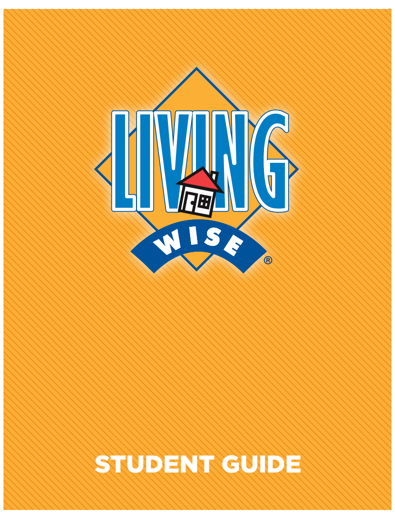
1. The materials were clearly written and well organized. ❍ Strongly Agree ❍ Agree ❍ Disagree ❍ Strongly Disagree
2. The products in the kit were easy for students to use. ❍ Strongly Agree ❍ Agree ❍ Disagree ❍ Strongly Disagree
3. Which classroom activities did you complete? (Mark all that apply) ❍ Biomass to Biogas ❍ Heat From Light Bulbs ❍ Expanding Gas ❍ Demand and Consumption ❍ Solar Power At Work ❍ How Much Do We Use?
4. I have a computer and access to the internet in my classroom. ❍ Yes ❍ No
5. Students indicated that their parents supported the program. ❍ Yes ❍ No
6. Would you conduct this program again? ❍ Yes ❍ No
7. Would you recommend this program to other colleagues? ❍ Yes ❍ No
8. Would you be willing to participate in a Teacher Focus Group? ❍ Yes ❍ No
9. What did students like best about the program? Explain.
10. What did you like best about the program? Explain.
11. What would you change about the program? Explain.

GET YOUR $50.00 MINI GRANT!
Return the following by May 6, 2016
- 80% of Student Survey Forms
- This evaluation form
- Student thank-you notes
- A letter from you

Teacher Evaluation Form

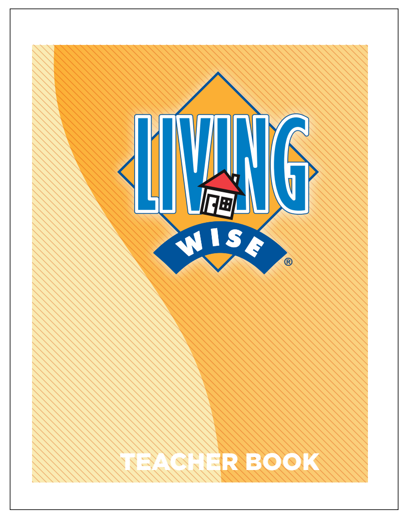


Parent Letter/Pledge Form



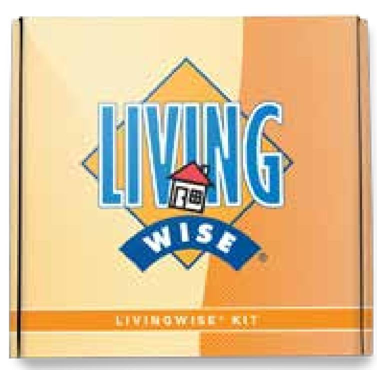
Student Guide

Student Workbook



Teacher Book

Certificate of Achievement



Kit Box

Kit Label

"What the students liked the best about the program was doing the home activities. They got excited seeing how much they save and their parents liked the ease of doing the project."

Koreen Hammel, Teacher
Hot Springs Elementary

Program Implementation

The 2015-2016 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 2015-2016 school year.

For more than 23 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 400,000 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.

"The students loved the kits (of course). They enjoyed learning about energy and the various sources."

Christy Hedderman, Teacher
Sturgis Elementary

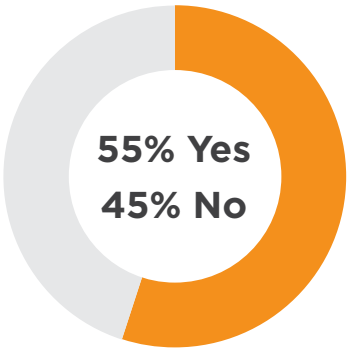
Program Impact

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.

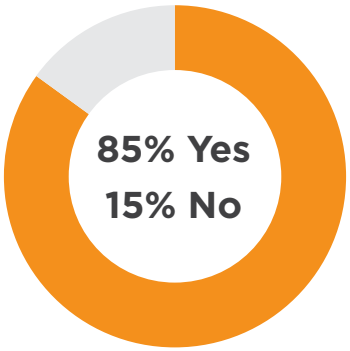
A. Home Survey

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.

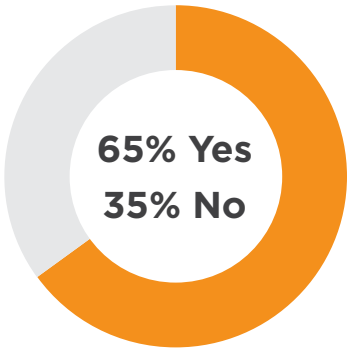
Did your family change the way they use water?	**Yes - 55%**
Did your family install the LimeLite® Night Light?	**Yes - 85%**
Did your family change the way they use energy?	**Yes - 65%**



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



Students who indicated they installed the LImeLite® Night Light.

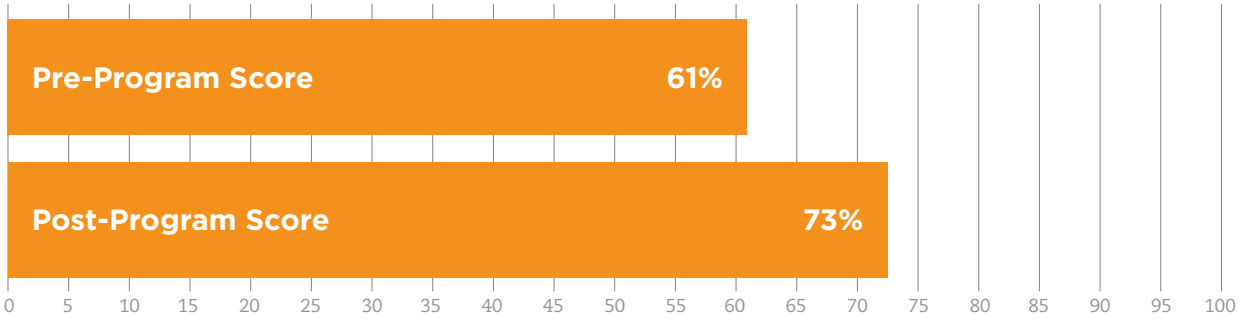


Students who indicated their family changed the way they use energy.

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 **7.3** questions correctly following participation.

Scores improved from 61% to 73%.



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, 1,360 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:	**1,360**		
	Annual	**Lifetime**	
Projected reduction from Showerhead retrofit:	**2,301,250**	**23,012,498**	gallons
Product Life: **10 years**	**138,654**	**1,386,542**	kWh
	7,449	**74,490**	therms
Projected reduction from Kitchen Faucet Aerator retrofit:	**1,540,368**	**7,701,841**	gallons
Product Life: **5 years**	**67,040**	**335,199**	kWh
	3,688	**18,438**	therms
Projected reduction from LED Lightbulb retrofit:	**50,366**	**491,064**	kWh
Product Life: **20 years**			
Projected reduction from LimeLite® Night Light installation:	**35,400**	**353,996**	kWh
Product Life: **10,000 hours**			
Projected reduction from FilterTone® installation:	**18,172**	**181,721**	kWh
Product Life: **10 years**	**2,181**	**21,806**	therms
TOTAL PROGRAM SAVINGS:	**3,841,618**	**30,714,340**	gallons
	309,632	**2,748,523**	kWh
	13,317	**114,734**	therms
TOTAL PROGRAM SAVINGS PER HOUSEHOLD:	**2,825**	**22,584**	gallons
	228	**2,021**	kWh
	10	**84**	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 that parents/guardians supported the program.

100% of participating teachers indicated the products in the kit were easy to use.

100% of participating teachers indicated the materials were clearly written and well organized.

What did students like best about the program? Explain.

"They enjoy the box of supplies."
Katie Teeslink, Corral Drive Elementary School

"My students liked the kit the best. They were very excited to go home and install things, especially the shower head."
Tammy Seefeldt, Grandview Elementary

"The activities and the kits."
Lauree Buus, Grandview Elementary

"The students enjoyed the kits and learning about saving energy."
Nancy Mulcahy, Hot Springs Elementary

"The kits."
Beth Chalberg, Meadowbrook Elementary

"They of course loved the box of 'gifts' to share with their parents."
Sherry Dolney, Piedmont Valley Elementary School

"They loved the living wise kits and were very excited to install items and use."
Patti Mitzel, Meadowbrook Elementary

"Getting to try out the items in the kit."
Drew Foley, Pinedale Elementary School

"Getting kits. It made them excited to learn, and they felt responsible."
Shawna Delaney, Vandenberg Elementary School

Teacher Response

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

"Kids really liked the kits and sharing with their families."
Ronald Mays, Vandenberg Elementary School

"The night lights and LED bulbs were most popular."
Heather Eldridge, St. Elizabeth Ann Seton Elementary School

"They enjoyed the home kit to work on with their parents."
Jessica Campbell, Pinedale Elementary School

What did you like best about the program? Explain.

"The student workbook to use in the classroom. There were more activities to use in the classroom and keep them engaged."
Koreen Hammel, Hot Springs Elementary

"The kit gave them hands-on."
Phillip Miller, St Paul's Lutheran School

"It built an awareness of energy use."
Katie Teeslink, Corral Drive Elementary School

"The organization of the whole program. The teacher's guide really helped!"
Tammy Seefeldt, Grandview Elementary

"The teacher guide was user friendly and made planing the lessons easier."
Lauree Buus, Grandview Elementary

What would you change about the program? Explain.

"Possibly a power point even more teacher friendly."
Phillip Miller, St Paul's Lutheran School

"There is not much time in the teaching day to do extra activities, so the classroom lessons are difficult. An introduction video to demonstrate the activities would be nice."
Katie Teeslink, Corral Drive Elementary School

"Nothing. Great opportunity for students."
Tammy Seefeldt, Grandview Elementary

"Put the fact cards in the pouch and not in the kits. Also, insert the activities into the lessons they would be used for in the teacher guide."
Lauree Buus, Grandview Elementary

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?

"How the activities were similar to a science experiment."
Belle Fourche Middle School

"It was a hands-on program. He saw the difference in old and new products."
Brian Staley, Belle Fourche Middle School

"The variety of items used to determine/save energy/watch usage."
Chanity Noor, Belle Fourche Middle School

"We learned where we could conserve energy and water."
Shane Moke, Belle Fourche Middle School

"Showed kids how easy it was to change to energy efficient items."
Troy Green, Belle Fourche Middle School

"Helping him learn about energy."
Heather Reid, Black Hawk Elementary School

"Gave my child information first hand."
Kira Hyde, Knollwood Heights Elementary School

"Doing the things in the kit together."
Patton, Knollwood Heights Elementary School

Parent Response

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

"LED light, shower head. It is teaching the kids how to save as well as how check for problems."
Steve Bauer, Meadowbrook Elementary

"The math showing how much savings is possible."
Ed Engler, Pinedale Elementary School

"Teaching kids about saving energy also good practical use of math."
Heidi Bell Geaase, Pinedale Elementary School

"Doing the workbook and tests together with children. The light bulb and shower head were useful."
Jon Eizinger, Pinedale Elementary School

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

"Good program — educational too."
Chanity Noor, Belle Fourche Middle School

"My student thought it was neat learning how to be and to think 'green.'"
Troy Green, Belle Fourche Middle School

"Really cool!"
Patton, Knollwood Heights Elementary School

"A shower timer would be a good addition."
Steve Bauer, Meadowbrook Elementary

"The sink adjustable aerator was very hard to get leak free."
Ed Engler, Pinedale Elementary School

"I think it's a good teaching tool for kids to learn about water and energy use. We already have LED bulbs and a low-flow shower head so our results were not as dramatic. Hopefully it makes our daughter more aware of turning off lights."
Heidi Bell Geaase, Pinedale Elementary School

"I own several homes and would like more kits for each house. Thermometer was useful and I was surprised by the water temp on the hot water heater. Good program thank you!"
Jon Eizinger, Pinedale Elementary School

"Good program. The water waste does add up to a lot."
Ken Nelson, Pinedale Elementary School

F. Teacher Letters

Dear Black Hills Power Energy:

Thank-you for allowing my class to participate in The LivingWise Program. My students learned valuable information with the resources you provided. Hopefully, they will use this new knowledge and pass it on to their family and friends. The students and many of the parents were excited to get the kits and to install the items in their houses. One girl in my class commented, "We put the new shower head in and I love it! It feels like the same amount of water coming out, but it isn't. We are saving a lot of water."

We did not have time to do any of the Optional Activities because of time restraints, but I may keep them in a file and try a few when we have more time – possibly in the last weeks of school. Thanks again for this opportunity to teach conservation in the classroom. I think it is so important in our world today.

Sincerely,

Mrs. Mitzel

Mrs. Mitzel

Dear Black Hills Energy,

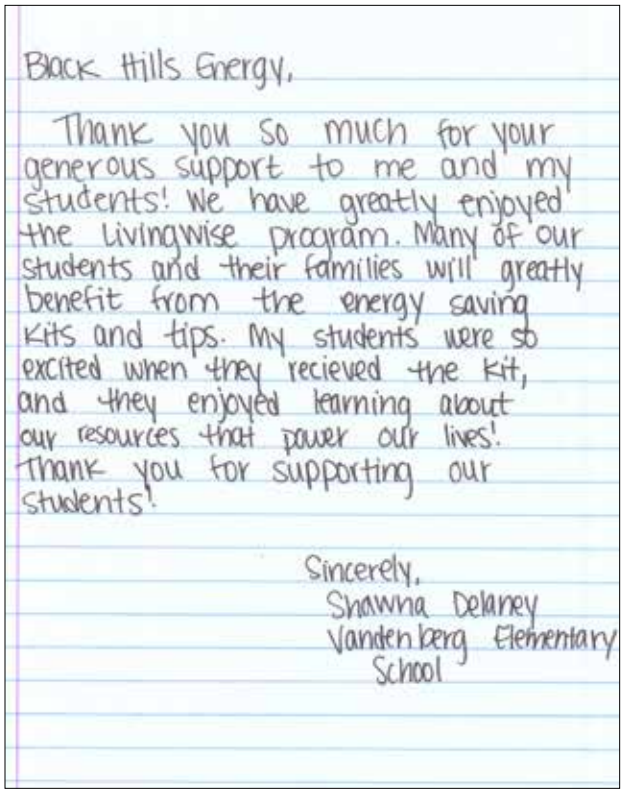
3 May, 2016

I want to take this opportunity to thank you for providing such an in-depth learning resource for our students to study energy conservation. By making real-world connections to their learning targets, my students were extremely engaged in all of the activities. I am very confident that many students are encouraging their parents to make real changes in their homes, knowing they will be using less energy in their daily lives.

Sincerely,

Ron Mays
5th Grade
Vandenberg Elementary

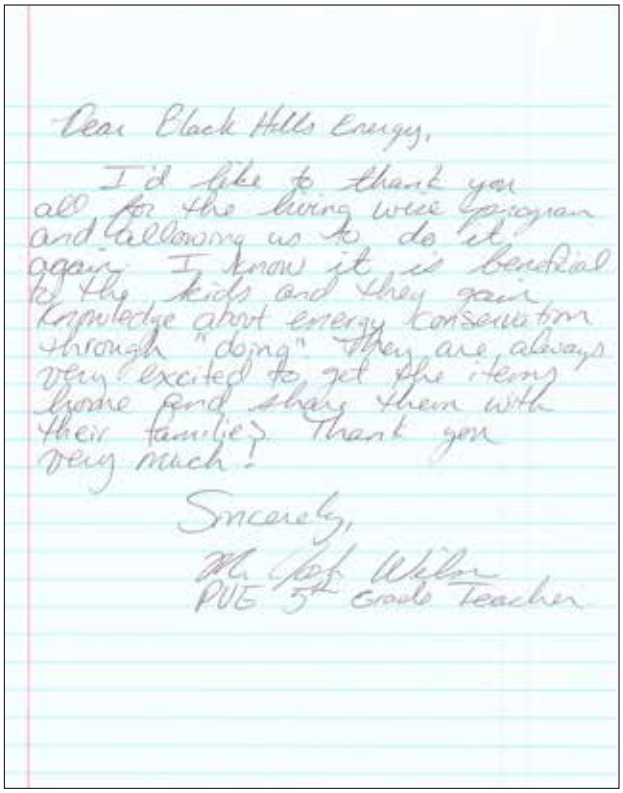
Teacher Letters



Black Hills Energy,

Thank you so much for your generous support to me and my students! We have greatly enjoyed the LivingWise program. Many of our students and their families will greatly benefit from the energy saving kits and tips. My students were so excited when they recieved the kit, and they enjoyed learning about our resources that power our lives! Thank you for supporting our students!

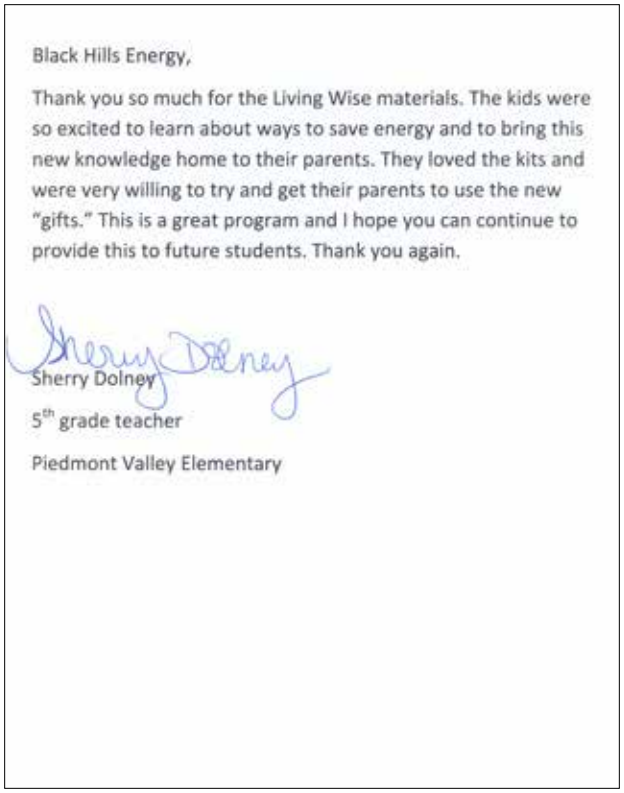
Sincerely,
Shawna Delaney
Vandenberg Elementary School



Dear Black Hills Energy,

I'd like to thank you all for the living wise program and allowing us to do it again. I know it is beneficial to the kids and they gain knowledge about energy conservation through "doing". They are always very excited to get the items home and share them with their families. Thank you very much!

Sincerely,
[illegible]
PVE 5th Grade Teacher



Black Hills Energy,

Thank you so much for the Living Wise materials. The kids were so excited to learn about ways to save energy and to bring this new knowledge home to their parents. They loved the kits and were very willing to try and get their parents to use the new "gifts." This is a great program and I hope you can continue to provide this to future students. Thank you again.

Sherry Dolney

Sherry Dolney
5th grade teacher
Piedmont Valley Elementary

April 3, 2016

Black Hills Energy and Sponsors,

Thank you very much for the Living Wise program. It not only taught my students about the importance of natural resources and ways to save on utilities and protect our natural resources, it also taught me and my family. The program was very easy to incorporate into the school day and very easy to use.

Thank you for being proactive and offering this program to the students. It is never to young to make kids aware of saving and protecting our natural resources.

If there is any way that I can help please let me know.

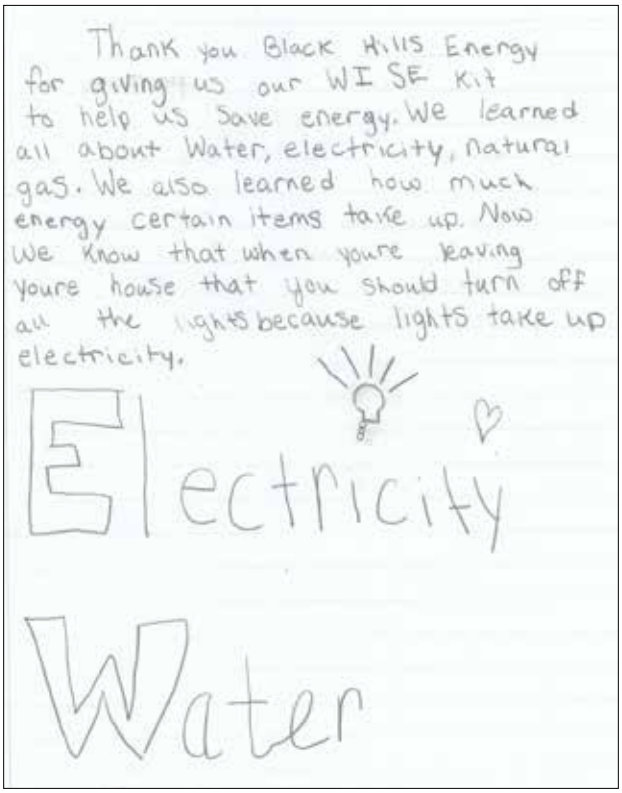
Thank you for the great program.

Philip Miller

5th & 6th grade teacher
St. Paul's Lutheran School
835 E. Fairmont Blvd.
Rapid City, SD 57701

G. Student Letters

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


Thank you Black Hills Energy for giving us our WISE Kit to help us save energy. We learned all about Water, electricity, natural gas. We also learned how much energy certain items take up. Now we know that when youre leaving youre house that you should turn off all the lights because lights take up electricity.

Electricity

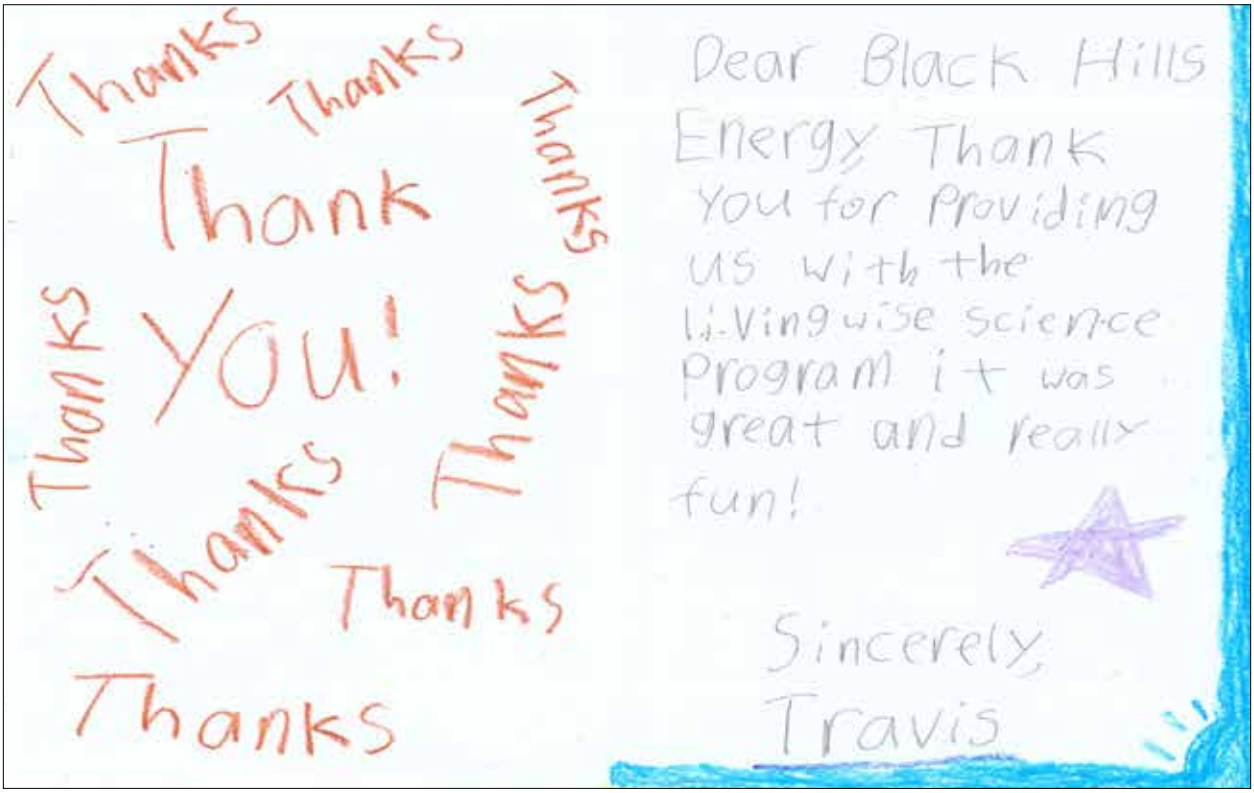
Water


Dear Black Hills Energy.

Thank you so much for the Living Wise Kit. I'll be able to help my family save lots of money. Thanks for the night light it should help me sleep better. The lessons were a lot of fun because I learned how to save energy.

THANK You

-Delaynie

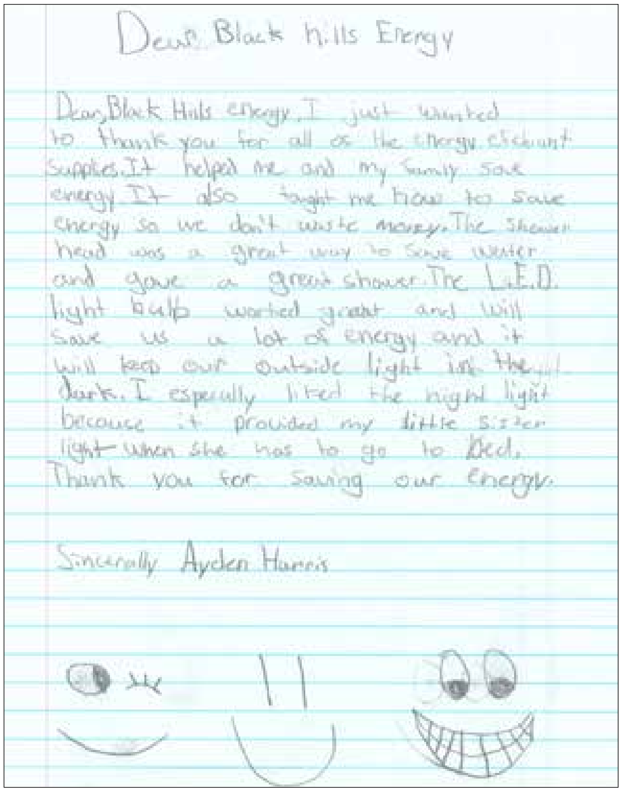

Thanks Thanks Thanks Thank You! Thanks Thanks Thanks Thanks Thanks

Dear Black Hills Energy Thank you for providing us with the Livingwise science program it was great and really fun!

Sincerely, Travis

Student Letters

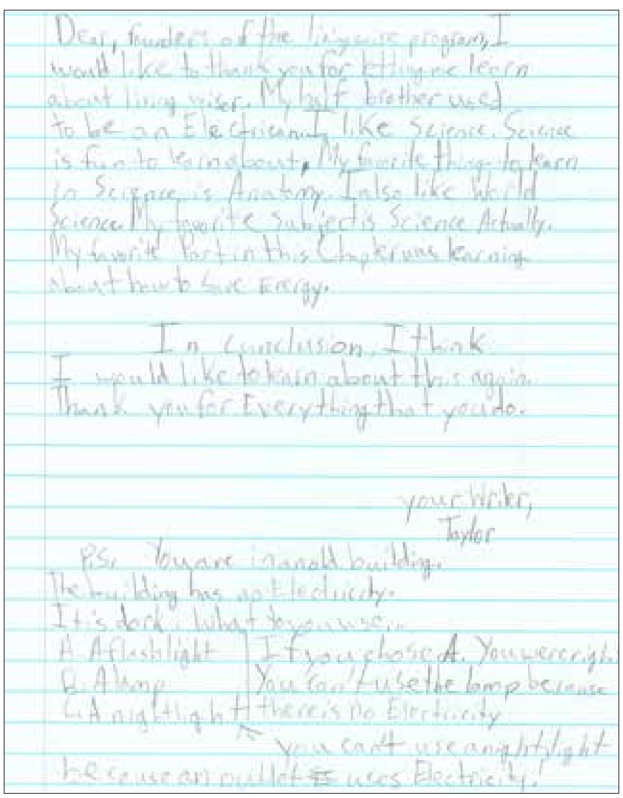
(A summary of responses can be found in Appendix F)



Dear Black hills Energy

Dear, Black Hills energy, I just wanted to thank you for all of the energy discount supplies. It helped me and my family save energy. It also taught me how to save energy so we don't waste money. The shower head was a great way to save water and gave a great shower. The L.E.D. light bulb worked great and will save us a lot of energy and it will keep our outside light in the dark. I especially liked the night light because it provided my little sister light when she has to go to bed. Thank you for saving our energy.

Sincerally Ayden Harris

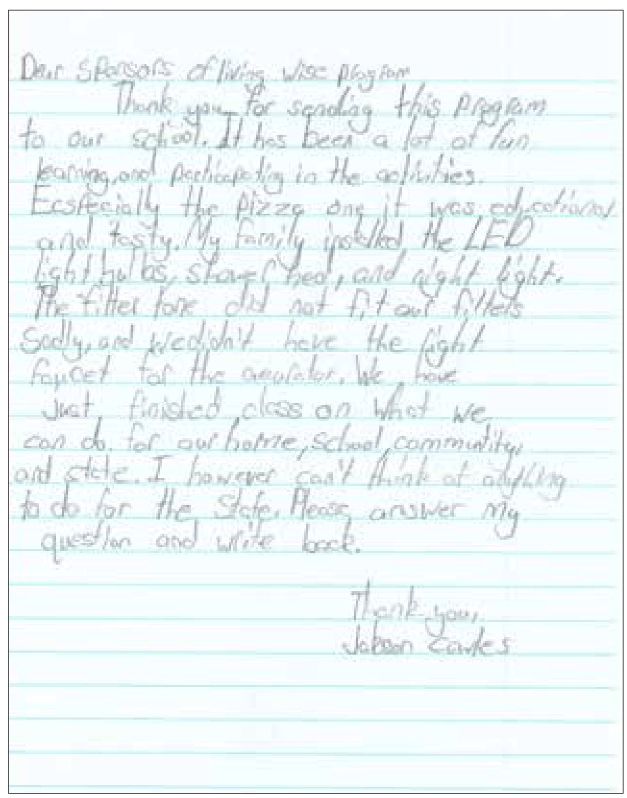


Dear, funders of the livingwise program, I would like to thank you for letting me learn about living wiser. My half brother used to be an Electrician. I like Science. Science is fun to learn about. My favorite thing to learn in Science is Anatomy. I also like World Science. My favorite subject is Science Actually. My favorite Part in this Chapter was learning about how to save Energy.

In conclusion, I think I would like to learn about this again. Thank you for Everything that you do.

your Writer,
Taylor

P.S. You are in an old building. The building has no Electricity. It's dark. What do you use...
A. A flashlight | If you chose A. You were right
B. A lamp | You can't use the lamp because
C. A nightlight | there is no Electricity
You can't use a nightlight because an outlet uses Electricity!

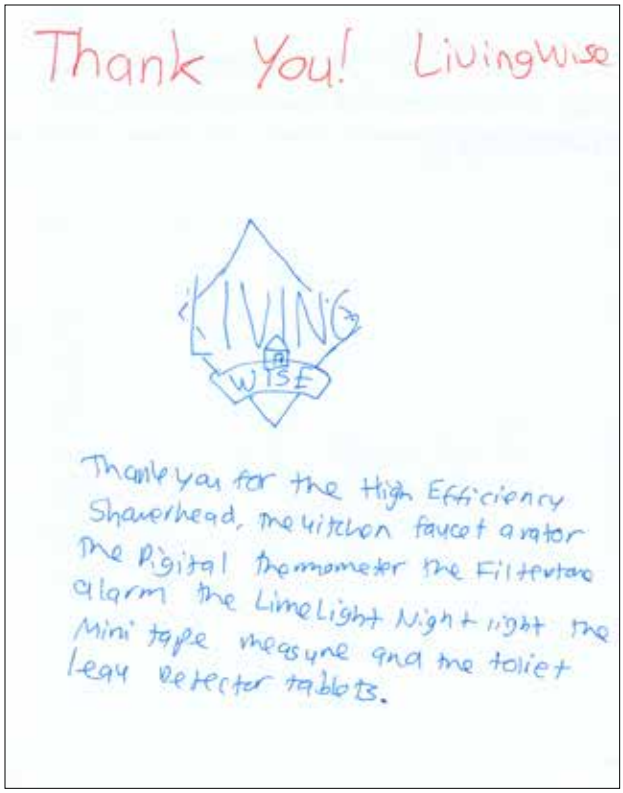


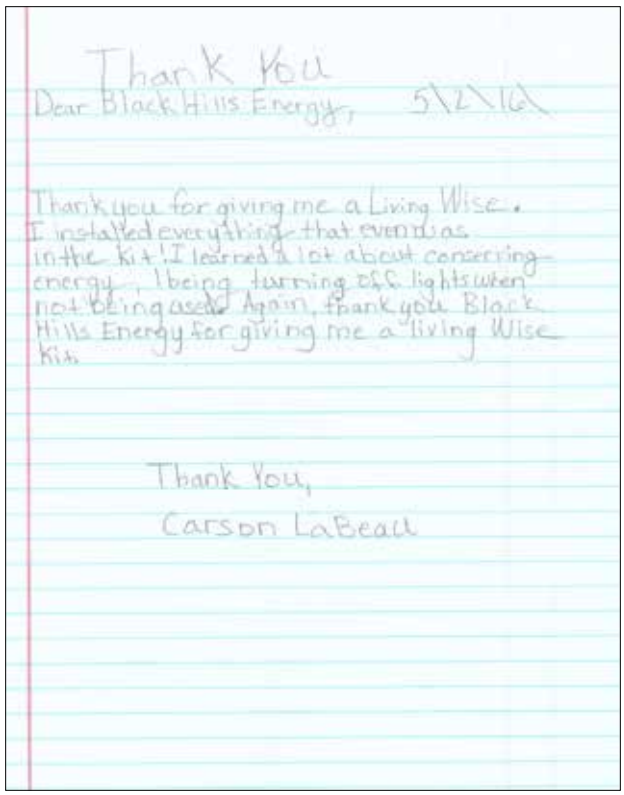
Dear sponsors of living wise program
Thank you for sending this program to our school. It has been a lot of fun learning and participating in the activities. Especially the pizza one it was educational and tasty. My family installed the LED light bulbs, shower head, and night light. The filter tone did not fit our filters sadly, and we didn't have the right faucet for the aerator. We have just finished class on what we can do for our home, school, community, and state. I however can't think of anything to do for the state. Please answer my question and write back.

Thank you,
Jaben Eakes

Student Letters

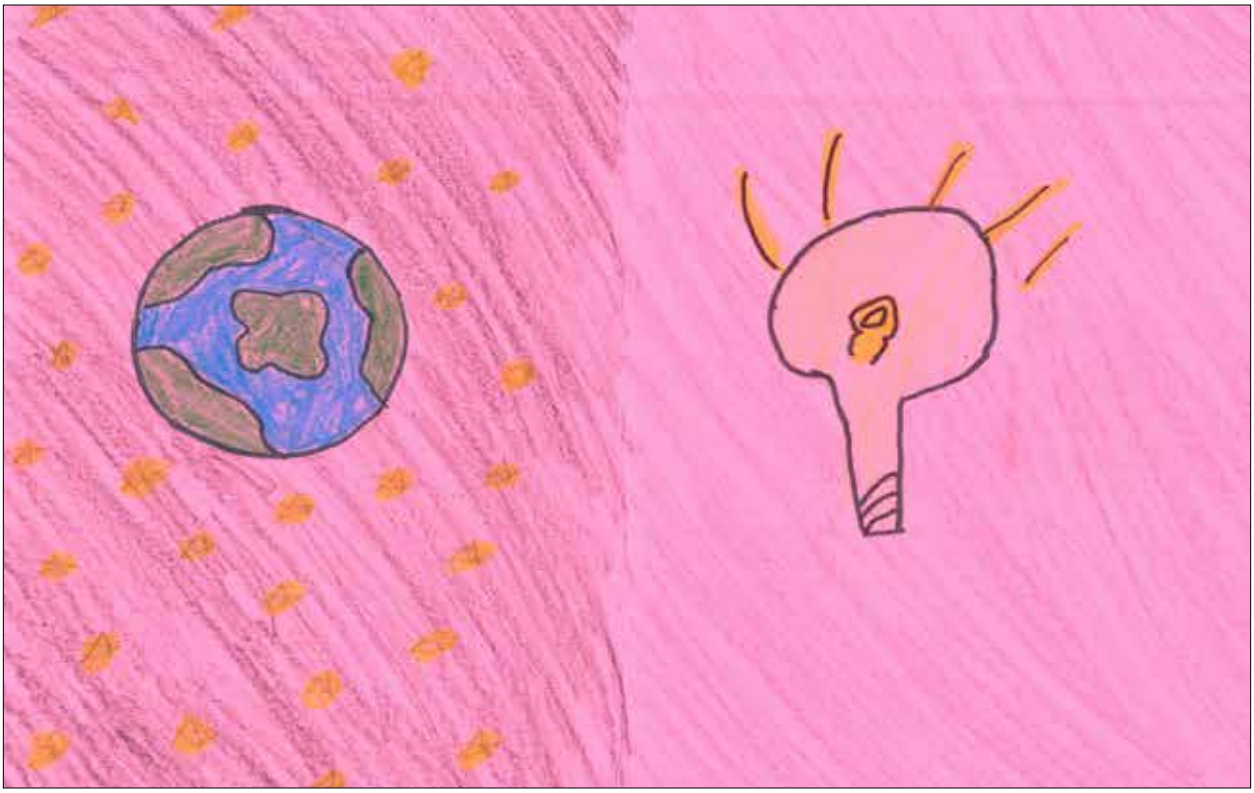
(A summary of responses can be found in Appendix F)

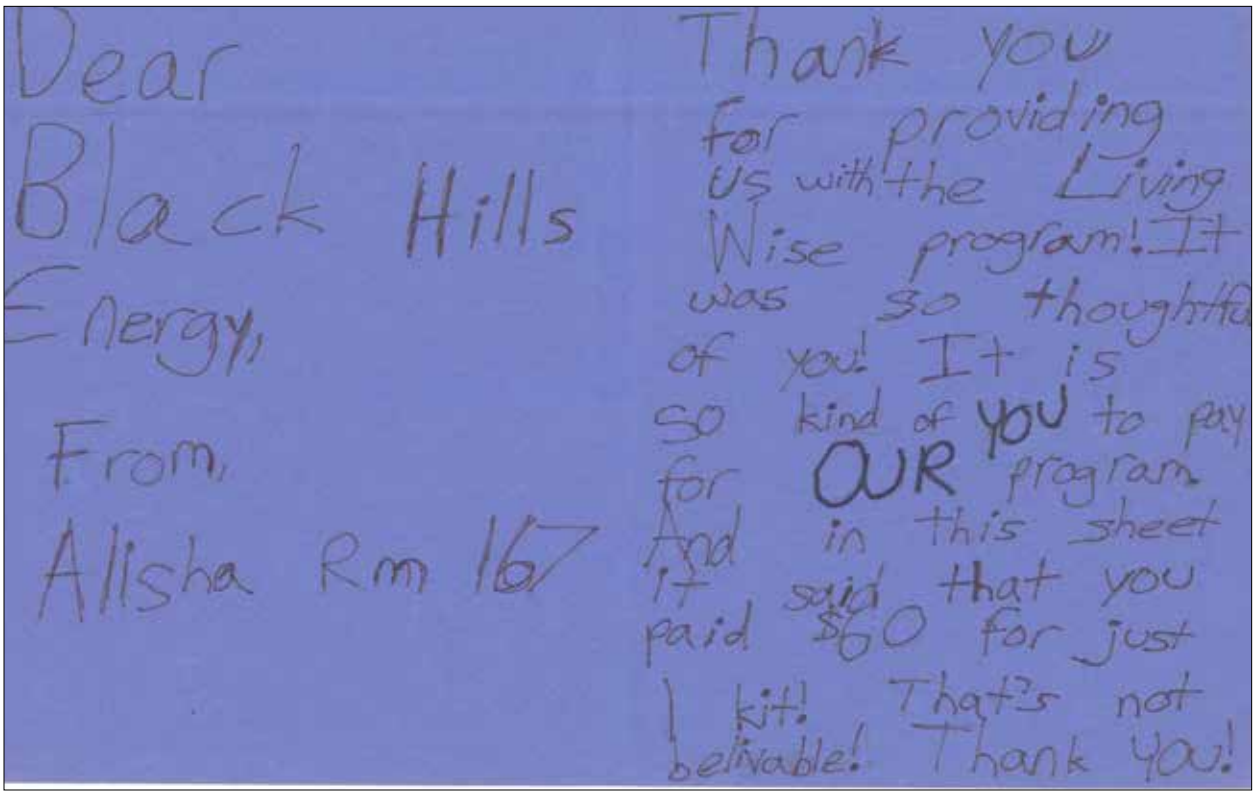




Student Letters

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





"Thank you for teaching my child about the usage of water and energy. She really enjoyed the class."

Ashley Zich, Parent
Sturgis Elementary

Appendices

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Projected Savings from Showerhead Retrofit

Showerhead retrofit inputs and assumptions:

Average household size:	**4.50**	people[1]
Average number of full bathrooms per home:	**2.07**	full bathrooms per home[1]
% of water heated by gas:	**49.27%**	[1]
% of water heated by electricity:	**45.85%**	[1]
Installation / participation rate of:	**51.82%**	[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:	**1,360**	[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:	**2,301,250**	gallons[4]
Showerhead retrofit projects a **lifetime** reduction of:	**23,012,498**	gallons[5]

Projected Electricity Savings:

Showerhead retrofit projects an **annual** reduction of:	**138,654**	kWh[2,6]
Showerhead retrofit projects a **lifetime** reduction of:	**1,386,542**	kWh[2,7]

Projected Natural Gas Savings:

Showerhead retrofit projects an **annual** reduction of:	**7,449**	therms[2,8]
Showerhead retrofit projects a **lifetime** reduction of:	**74,490**	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:	**4.50**	people[1]
% of homes with a dishwasher:	**81.89%**	[1]
% of homes without a dishwasher:	**18.11%**	[1]
% of water heated by gas:	**49.27%**	[1]
% of water heated by electricity:	**45.85%**	[1]
Installation / participation rate of:	**39.62%**	[1]
Number of participants:	**1,360**	[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:	**1,540,368**	gallons[5]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**7,701,841**	gallons[6]

Projected Electricity Savings:

Kitchen Faucet Aerator retrofit projects an **annual** reduction of:	**67,040**	kWh[4,7]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**335,199**	kWh[4,8]

Projected Natural Gas Savings:

Kitchen Faucet Aerator retrofit projects an **annual** reduction of:	**3,688**	therms[4,9]
Kitchen Faucet Aerator retrofit projects a **lifetime** reduction of:	**18,438**	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 FilterTone® Alarm Installation

FilterTone® installation inputs and assumptions:

Annual energy (electricity) use by a central system air conditioner:	**2,414**	kWh[1]
Annual energy (natural gas) use by central space heating or furnace:	**551**	therms[1]
Projected increase in efficiency (electricity):	**1.75%**	[2]
Projected increase in efficiency (natural gas):	**0.92%**	[2]
Product life:	**10**	years[3]
Installation / participation rate of:	**31.63%**	[4]
Number of participants:	**1,360**	[4]

Projected Electricity Savings:

The FilterTone installation projects an **annual** reduction of:	**18,172**	kWh[5]
The FilterTone installation projects a **lifetime** reduction of:	**181,721**	kWh[6]

Projected Natural Gas Savings:

The FilterTone installation projects an **annual** reduction of:	**2,181**	therms[7]
The FilterTone installation projects a **lifetime** reduction of:	**21,806**	therms[8]

1 U.S. Department of Energy, Energy Information Administration 2005 Residential Energy Consumption Web site for West North Central States: 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**	years[1]
Watts used by the LED light bulb:	**9.8**	watts[1]
Hours of operation per day:	**2.81**	hours per day[2]
Average watts used by the replaced light bulb:	**58.93**	watts[3]
Installation / participation rate of:	**73.49%**	[3]
Number of participants:	**1,360**	[3]

Projected Electricity Savings:

The LED Light Bulb retrofit projects an **annual** reduction of:	**50,366**	kWh[2,4]
The LED Light Bulb retrofit projects a **lifetime** reduction of:	**491,064**	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 LimeLite® Night Light Installation

LimeLite® Night Light installation inputs and assumptions:

Average length of use:	**4,380**	hours per year[1]
Average night light uses:	**7**	watts
Retrofit night light uses:	**0.03**	watts
Product life:	**10**	years[2]
Energy saved per year:	**31**	kWh per year
Energy saved over life expectancy:	**305**	kWh
Installation / participation rate of:	**85.26%**	[3]
Number of participants:	**1,360**	[3]

Projected Electricity Savings:

The LimeLite Night Light installation projects an **annual** reduction of:	**35,400**	kWh
The LimeLite Night Light installation projects a **lifetime** reduction of:	**353,996**	kWh

1 Assumption (12 hours per day)

2 Product life provided by manufacturer

3 Data reported by program participants

Home Check-Up

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

1	20%
2	37%
3	25%
4	9%
5	8%

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

1	15%
2	74%
3	6%
4	4%
5+	1%

3 How is your water heated?

Natural Gas	47%
Electricity	44%
Propane	9%

4 Does your home have a dishwasher?

Yes	82%
No	18%

5 How many half-bathrooms are in your home?

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

6 How many full bathrooms are in your home?

1	26%
2	45%
3	26%
4	2%
5+	1%

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	42%
Electricity	46%
Heating Oil	0%
Wood	2%
Propane	7%
Other	2%

8 What type of air conditioning unit do you have?

Central Air Conditioner	70%
Evaporative Cooler	4%
Room Unit	18%
Don't Have One	9%

9 What type of home do you live in?

Single Family home	78%
Multi-Family (2-4 units)	15%
Multi-Family (5-20 units)	5%
Multi-Family (21+ units)	2%

10 Was your home built before 1992?

Yes	53%
No	47%

11 Is your home owned or rented?

Owned	77%
Rented	23%

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

Home Activities

1	Did you install the new High-Efficiency Showerhead?	
	Yes	52%
	No	48%
2	Did your family install the new Kitchen Faucet Aerator?	
	Yes	40%
	No	60%
3	Was your toilet leaking?	
	Yes	10%
	No	90%
4	If you answered "yes" to question 3, were the leaks repaired?	
	Yes	21%
	No	79%
5	Did your family install the LED Light Bulb?	
	Yes	73%
	No	27%
6	If you answered "yes" to question 5, what was the wattage of the incandescent bulb you replaced?	
	40-watt	10%
	60-watt	35%
	75-watt	19%
	100-watt	9%
	Other	27%
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	19%
	3 - 4 Degrees	12%
	5+ Degrees	11%
	Didn't Adjust Thermostat	58%
9	How much did your family turn up the thermostat in summer for cooling?	
	1 - 2 Degrees	17%
	3 - 4 Degrees	13%
	5+ Degrees	14%
	Didn't Adjust Thermostat	56%
10	Did your family install the LimeLite Night Light?	
	Yes	85%
	No	15%

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

Home Activities

(continued)

11	Did your family lower your water heater settings?	
	Yes	22%
	No	78%
12	Did your family raise the temperature on your refrigerator?	
	Yes	16%
	No	84%
13	Did you work with your family on this program?	
	Yes	78%
	No	22%
14	Did your family change the way they use water?	
	Yes	55%
	No	45%
15	Did your family change the way they use energy?	
	Yes	65%
	No	35%
16	How would you rate the LivingWise Program?	
	Great	50%
	Pretty Good	31%
	Okay	16%
	Not So Good	3%

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

Participant List

SCHOOL	TEACHER	T	S
Belle Fourche Middle School	Ann Anderson	1	130
Black Hawk Elementary School	Nicholas McGeehon	1	26
Black Hawk Elementary School	Connie Johns	1	28
Black Hawk Elementary School	Rachel Barbaruolo	1	27
Canyon Lake Elementary School	Erin Bauer	1	19
Canyon Lake Elementary School	Matthew Sturlagson	1	19
Canyon Lake Elementary School	Linda Steward	1	21
Corral Drive Elementary School	Katie Teeslink	1	27
Corral Drive Elementary School	Jo Olson	1	27
Corral Drive Elementary School	JoAnn Beckman	1	28
Edgemont Elementary School	Michelle Urban	1	11
Grandview Elementary	Lauree Buus	1	20
Grandview Elementary	Elizabeth Timmerman	1	22
Grandview Elementary	Tammy Seefeldt	1	21
Grandview Elementary	Alex Whitney	1	19
Hot Springs Elementary	Nancy Mulcahy	1	21
Hot Springs Elementary	Todd Phelps	1	21
Hot Springs Elementary	Koreen Hammel	1	21
Knollwood Heights Elementary School	Connie Ahrens	1	30
Knollwood Heights Elementary School	Shelley Branch	1	30
Knollwood Heights Elementary School	Debbie Johnston	1	30
Lead-Deadwood Elementary School	Amy VandeVelde	1	24
Lead-Deadwood Elementary School	Thomas Paulsen	1	20

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

Participant List

(continued)

SCHOOL	TEACHER	T	S
Lead-Deadwood Elementary School	Tanner McGinnis	1	24
Meadowbrook Elementary	Beth Chalberg	1	30
Meadowbrook Elementary	Patti Mitzel	1	30
Meadowbrook Elementary	John Dagit	1	30
Newell Elementary/Middle School	Jessica Smith	1	27
Piedmont Valley Elementary School	Josh Wilson	1	24
Piedmont Valley Elementary School	Sherry Dolney	1	25
Piedmont Valley Elementary School	Connie Berg	1	24
Piedmont Valley Elementary School	Paige Guy	1	25
Pinedale Elementary School	Drew Foley	1	24
Pinedale Elementary School	Andrea Miller	1	24
Pinedale Elementary School	Jessica Campbell	1	26
Robbinsdale Elementary School	Julie Flack	1	26
Robbinsdale Elementary School	Breanne Hilt	1	25
Robbinsdale Elementary School	Christina Henry	1	30
South Park Elementary School	Amanda Smith	1	51
Spearfish Classical Christian Academy	Tami Whalen	1	10
St Paul's Lutheran School	Phillip Miller	1	15
St. Elizabeth Ann Seton Elementary School	Heather Eldridge	1	16
Sturgis Elementary	Adam Fitzpatrick	1	26
Sturgis Elementary	Christy Hedderman	1	25
Sturgis Elementary	Jennifer Mayer	1	24
Sturgis Elementary	Elizabeth Stetson	1	27

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

Participant List

(continued)

SCHOOL	TEACHER	T	S
Vandenberg Elementary School	Ronald Mays	1	27
Vandenberg Elementary School	Shawna Delaney	1	26
Whitewood Elementary School	Alex Meehan	1	11
Zion Lutheran School	Ann Solinsky	1	16
	TOTALS	**50**	**1,310**
	TOTAL PARTICIPANTS	**1,360**	

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	48%
Agree	52%
Disagree	0%
Strongly Disagree	0%

2 The products in the Kit were easy for students to use.

Strongly Agree	43%
Agree	57%
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	91%
No	9%

5 Would you recommend this program to other colleagues?

Yes	96%
No	4%

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.

"Installing the parts at home with their families, working at home and at school with the program and realizing how they can make a difference."
Andrea Miller, Pinedale Elementary School

"The kits. They were so excited to use the materials in their homes."
Alex Meehan, Whitewood Elementary School

"Getting the 'stuff'."
Josh Wilson, Piedmont Valley Elementary School

"The box."
Ann Anderson, Belle Fourche Middle School

"Loved the kit!"
Connie Johns, Black Hawk Elementary School

"They liked the experiment and the objects to take home."
Ann Solinsky, Zion Lutheran School

What did you like best about the program? Explain.

"The kits."
Beth Chalberg, Meadowbrook Elementary

"Seeing the kids think about ways they can conserve energy."
Sherry Dolney, Piedmont Valley Elementary School

"The chance to teach about conservation and I learned many new things too."
Patti Mitzel, Meadowbrook Elementary

"The kit that was taken home with the students."
Drew Foley, Pinedale Elementary School

"The ease of use."
Shawna Delaney, Vandenberg Elementary School

"Well designed lessons and classroom activities. Great Job!"
Ronald Mays, Vandenberg Elementary School

"I liked the focus on conservation."
Heather Eldridge, St. Elizabeth Ann Seton Elementary School

Teacher Comment Data

(continued)

"Listening to the stories that students shared about the kit and program at home and the discussions they had with their families. Also, seeing their excitement to try to help their families conserve energy and save money."
Andrea Miller, Pinedale Elementary School

"It was well laid out and easy to follow."
Jessica Campbell, Pinedale Elementary School

"The easy to follow workbooks and lesson plans."
Alex Meehan, Whitewood Elementary School

"The awareness they receive and how excited the kids get."
Josh Wilson, Piedmont Valley Elementary School

"Student excitement."
Ann Anderson, Belle Fourche Middle School

"Well organized."
Connie Johns, Black Hawk Elementary School

"I liked the same things."
Ann Solinsky, Zion Lutheran School

"Same as above."
Christy Hedderman, Sturgis Elementary

What would you change about the program? Explain.

"I would start it earlier. We waited too long and it was hard to fit all the lessons in."
Drew Foley, Pinedale Elementary School

"This is a good program. Keep doing it! Thanks for the opportunity."
Ann Solinsky, Zion Lutheran School

"I would like to see more information about how to use energy safely and reasons why we don't use nuclear energy, etc. More due to danger."
Christy Hedderman, Sturgis Elementary

"I wish I had more time to implement this program!"
Alex Meehan, Whitewood Elementary School

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%

Parent/Guardian Comment Data

(continued from page 24)

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

"The calculation of savings."
Ken Nelson, Pinedale Elementary School

"Calculating the savings."
Troy Short, Pinedale Elementary School

"Calculating kW hrs used before and after and cost savings."
Erica, Spearfish Classical Christian Academy

"Being provided energy and H_2O efficient products."
Louis Hamberg, Spearfish Classical Christian Academy

"The experiments were easy to do and interesting for both my child and myself."
Lynette, Spearfish Classical Christian Academy

"That my children think more about using resources."
Melissa Bailey, Spearfish Classical Christian Academy

"Energy saving."
Monica Branner, Spearfish Classical Christian Academy

"All were great!"
Pam Burch, Spearfish Classical Christian Academy

"Letting the child see through calculations how much money was being saved and how much water saved too."
Tami Whalen, Spearfish Classical Christian Academy

"Child got to see how much difference there was with the efficiency you supplied."
Todd Mertens, Spearfish Classical Christian Academy

"Workbook and directions."
Philip Miller, St Paul's Lutheran School

"The focus on conservation."
Patrich SImmons, St. Elizabeth Ann Seton Elementary School

"How to cut energy and water use."
Ashley Zich, Sturgis Elementary

"Measure tape."
Rachel, Sturgis Elementary

Parent/Guardian Comment Data

(continued)

"Talking and doing about energy together."
Shelley Hanhurch, Sturgis Elementary

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

"Thank you for teaching this program!"
Erica, Spearfish Classical Christian Academy

"N/A Thanks!"
Louis Hamberg, Spearfish Classical Christian Academy

"My child enjoyed the program and it was a good learning experience."
Lynette, Spearfish Classical Christian Academy

"Thank you!"
Pam Burch, Spearfish Classical Christian Academy

"The sink aerator faucet was not the correct size. The filter tone alarm was not the right size for our filter."
Tami Whalen, Spearfish Classical Christian Academy

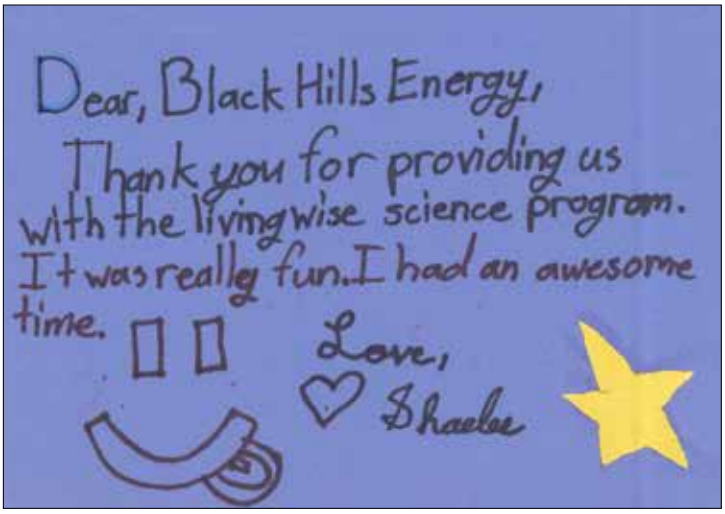
"Most off the stuff supplied was good quality."
Todd Mertens, Spearfish Classical Christian Academy

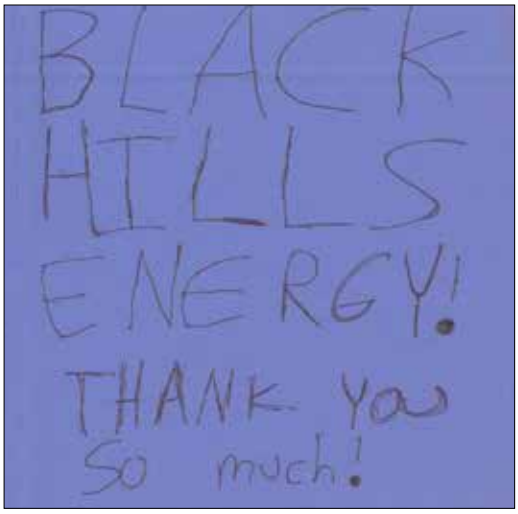
"It is cool."
Rachel, Sturgis Elementary

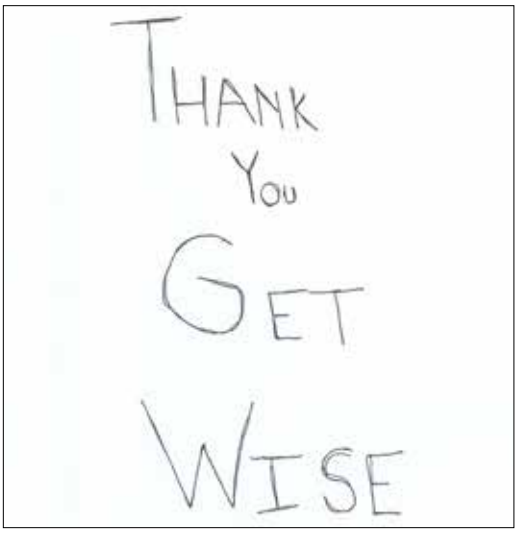
"Great idea — Thanks, the whole family was involved."
Shelley Hanhurch, Sturgis Elementary

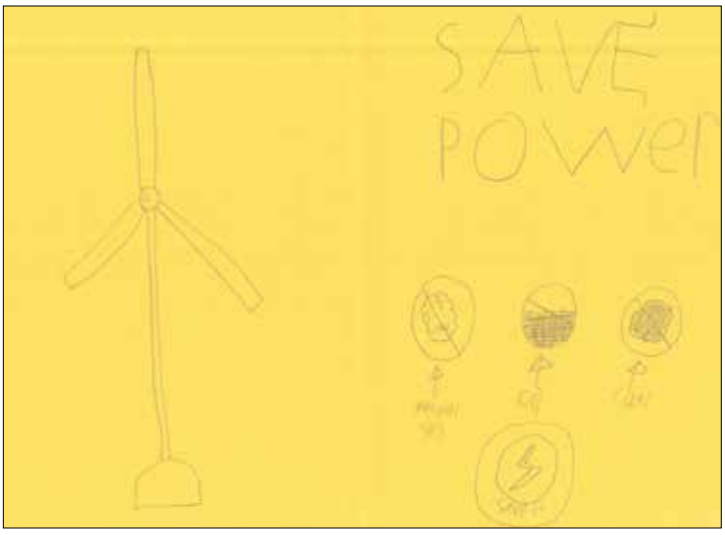
Student Letters

(continued from page 28)









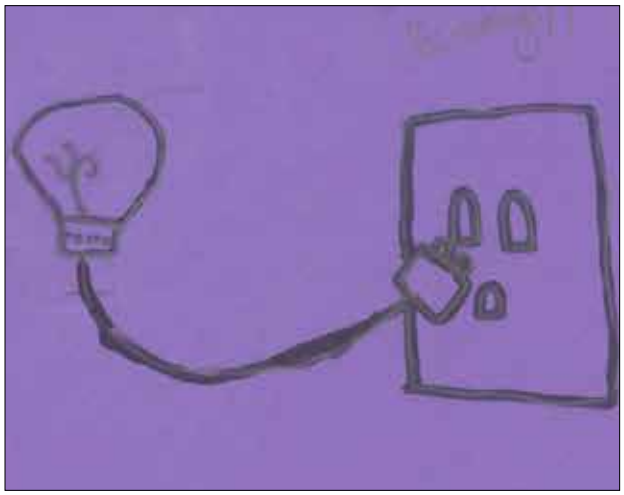
Student Letters

(continued)

Dear, Black Hills Energy

Thank you for all the items that you gave us. It really helps me and my family around the house. I like the shower head because it helps me save water. The night light helps my brother sleep. I also liked the LED light because it was really easy to put in and it looked great in my house. Thank you for all of this energy saving expirence

Sincerly Gavin



Dear Black Hills Energy

Thank you for the kit that you gave us. I really like the shower head that you gave me. and thank you for paying for the kit. There are really good tools I used. I used more than half of the kit and it saved more money for us. The light bulb was really helpful like all of the other tools. It was so nice of you that you gave us these tools to use.

Sincerely, Cooper Mersiang

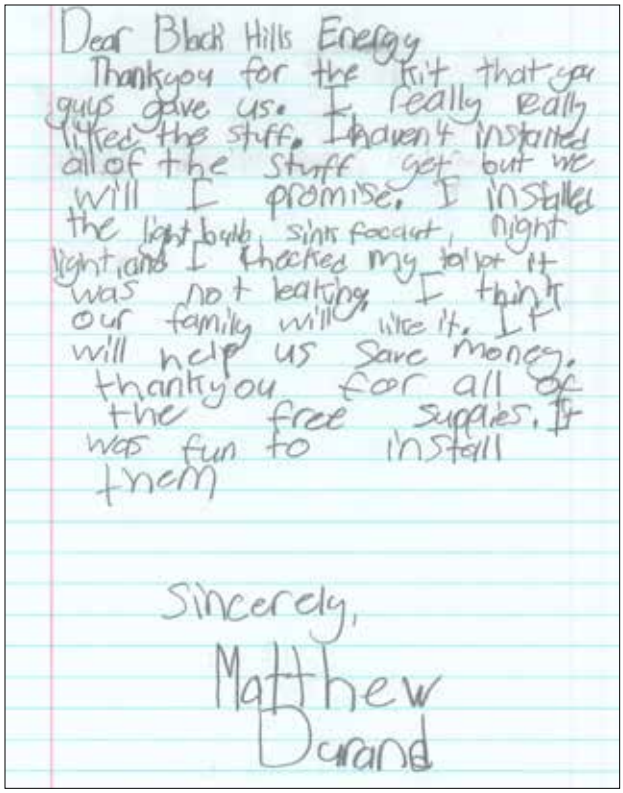
Student Letters

(continued)

Dear Black Hills Energy

Thank you for your donation. I used most of your stuff now I'm hoping to use the rest. The thing I use the most is the power saver. I do it every single day I hope all the stuff you sent costs a lot of money so I hope every body uses everything so we don't waste all the money you used on the stuff. I love me and many others make your day by sending you this note and the many others you will soon be receiving. Thank you.

Sincerly:
Brett



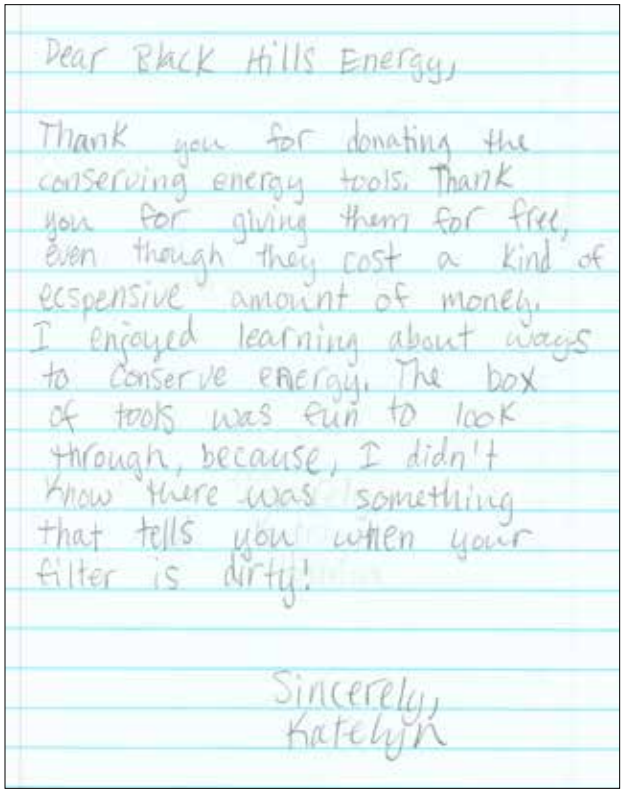
Dear Black Hills Energy
Thankyou for the kit that you guys gave us. I really really liked the stuff. I haven't installed all of the stuff yet but we will I promise. I installed the light bulb, sink faucet, night light, and I checked my toilet it was not leaking. I think our family will like it. It will help us save money. thankyou for all of the free supplies. It was fun to install them

Sincerely,
Matthew Durand

Dear Black hills Energy,

Thank you for providing those items for us. It was very thoughtful. Also to provide them to us with no cost. I used the lightbulb, fridge temperture, and the nightlight. They were all amazing and the nightlight was very cool. It was so nice of you guys to share those things with me and my classmates. I used the lightbulb for a lamp of mine. I use the nightlight in my room, and we used the fridge temperture for the fridge. Even though we did not adjust anything it was so nice to see you guys doing something for the students and their familys. Some may couldn't have afforded those things. Thanks again.

Sincerely,
Ady



Dear Black Hills Energy,

Thank you for donating the conserving energy tools. Thank you for giving them for free, even though they cost a kind of ecspensive amount of money. I enjoyed learning about ways to conserve energy. The box of tools was fun to look through, because, I didn't know there was something that tells you when your filter is dirty!

Sincerely,
Katelyn

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