The B.E.E.P. (Bosque Energy & Environment Peeps) Energy STARS reconvened as an extracurricular club to deepen our knowledge about energy conservation and awareness, and our environmental impact throughout our school and community. We met to explore, experiment, communicate, and have fun doing energy. We followed the steps in Blueprint for Success to organize our work. Our goal is to educate ourselves, other students and our community about how to save energy and reduce our energy footprint. We learned through different activities, outreach, and demonstrations.

To deepen our understanding and awareness, and develop leadership, we:

- Learned about forms and sources through hands-on activities and kits like Science of Energy
- Learned, then taught about energy conservation and efficiency
- Used the Energy Light Box and Hand Crank Generator to learn about efficiency

Our school’s awareness improved, because of:

- Announcements of facts, tips, jokes, and challenges, about conservation and efficiency
- Pledges made by students and staffulty to save energy and resources
- We are learning about and supporting new resource-saving at our school
- Two Energy Weeks improved a culture of energy awareness with students and staff

Our community benefited:

- The influence of our club made a difference on how people think and the choices they make about energy.
- E-Recycling Event resulted in over 6,000 pounds of E-Waste

Through our activities and visibility in the community, we have shown that our work as the BEEP Energy STARS has been sustainable, and we have helped the school and community to better understand our world, its natural resources, and energy as it impacts our lives today.
Goal #1
Convene the Energy Club – B.E.E.P (Bosque Energy & Environment Peeps) Energy S.T.A.R.S – Students Teaching About Resource Saving in order to pursue interests, learn and teach about energy and energy issues, learn from and support each other, and to jointly educate and reinforce energy consciousness and conservation efforts in our school and community.

Energy Activities GOAL #1

- Revive the **Energy STARS (Students Teaching About Resource Saving)** – B.E.E.P. Bosque Energy Education Peeps and set goal to meet twice a month
- Research **energy saving ideas** – websites, NEED links, EIA Kids, PNM
- Learn about concept of **Carbon Footprint/environmental impact**
- Plan for Activity **Open House** (Goal #3).
- Begin to plan activities for **October Energy Awareness Month** (see Goal #3) and **March Energy Week** (see Goal #5) to announce energy tips regularly during the **Daily announcements at our Morning Meeting**
- Students learned about energy sources using **Energy Round-Up**, and learned **ENERGY CHANTS**.
- Planned two **school-wide energy awareness weeks**.
**Student Leadership #1**

- Students revive the **Energy Activity Block**—an extracurricular time that meets twice a month during the school day
- Students recruit for BEEP Energy STARS
- Students decide to work together to support each others’ club activities and outreach opportunities
- Students help teach each other about the **Science of Energy** and **Sources of Energy**—“Kids-Teaching-Kids” method works well!
- Students learn to use and monitor energy usage with a Kill-a-Watt meter
- Students **tour the school and conduct an basic energy survey** to identify potential ways to conserve and recommend energy-saving features and investigate energy-efficient devices that have been on campus.
- Students implement at least one energy activity per semester
- Students learned to use an **energy light box** and a handcrank **generator** to demonstrate and explain **energy concepts and light bulb efficiency**
Energy Content and Resources GOAL #1

- NEED website - www.need.org
- NEED Blueprint for School Energy Teams
- NEED Monitoring and Mentoring,
- NEED Exploring Solar Energy,
- NEED Science of Energy kit,
- NEED Energy Games and Icebreakers
- Dr. Jessie Barrie, Head of School; Ms. Pat Preib, Head of Middle School; Ms. Leslie O’Hanlon, Interim Head of Middle School, Mr. Kirk Ward, Director of Facilities, Ms. Sky Jenkins Service Learning
- Mr. Robert Lazar, APS Water and Energy Conservation Coordinator
- Dept of Energy Kids Page web site - www.eia.gov.kids/kids

Evaluation GOAL #1

- Regular and positive involvement and feedback from school staff and students
- Energy STARS/BEEP membership remained intact throughout the year
- Energy STARS /BEEP news and information featured in school newsletter the Bosque Buzz 5+ times throughout the year – reaching over 1000 families (students, alumni, trustees, community)
- Staffulty and students “brag” about their classroom-based energy conservation efforts (“Come see! I turned off my lights during prep!”)
- School culture of energy consciousness is contagious – former Energy STARS in the upper school continue energy and environmental interests in their Service Learning projects

Challenging the community to do one thing....
Goal #2
• Participate in the School Community Open House (A View of Bosque) and Club Fair
• Teach the community about energy basics and the advantages of energy efficient choices

Energy Activities GOAL #2
• Learn and review energy efficiency concepts
• Promote the school and club at Open House
• Teach visitors about energy efficiency and carbon footprint
• Demonstrate light box and hand crank generator
• Distribute energy facts and tips

Student Leadership GOAL #2
• Students in BEEP Energy STARS determined self-leadership by attending this “optional” opportunity
• Students use the knowledge, information and tools to teach adults and student visitors to Open House Club Fair
• Students distribute a checklist/reminders for “powering down” over extended school breaks: Thanksgiving and Winter Break
• Students request more energy-saving events and activities following this workshop – and recruit more Energy STARS club kids!
Energy Content/Resources GOAL #2
- NEED Blueprint for School Energy Teams
- NEED Energy Games and Icebreakers
- NEED Monitoring and Mentoring
- Mr. Robert Lazar – Albuquerque Public Schools Water and Energy Conservation Coordinator
- Mr. Kirk Ward, Bosque School Facilities Director

Evaluation GOAL #2
- Student involvement increased – new members joined!
- Students talked to/taught over 250 student and adult visitors
- Knowledge and experience is used to plan further activities to increase awareness and knowledge of our school’s carbon footprint/environmental impact

Public speaking and leadership skills grow – Maya explains energy flow to the Dr. Barrie, Head of School.
Goal #3

- Recognize October Energy Action Month with theme: *Take a BITE out of Energy Vampires.*
- Teach, promote, challenge, and raise awareness of energy usage in our schools, our families, and community.
- Build on past years’ culture of energy awareness and encourage energy conservation

Energy Activities GOAL #3

- Adopt a theme: *Take a BITE out of Energy Vampires*
- Research *energy vampires* – NOT the friends that wear you out!
- Make pledge forms for SPECIFIC actions to conserve
- Make a display – looks like a vampire cape!
- Reserve time and space to make announcements to gathered students and at lunch
- Offer ideas and suggestions to students, staffulty, and community
- Promote and report in Bosque Buzz - Electronic Newsletter
- Energy vampire cape with specific energy-saving ideas is displayed in public area of library

Student Leadership GOAL #3

- Students create theme: *Take a BITE Out of Energy Vampires*
- Students review and research energy facts – especially those relating to “energy vampires”
- Students make announcements to school about specifics facts about energy vampires and ways of saving
- Students create pledge forms and distribute and promote during lunch
- Students post pledges on the energy vampire’s cape- to create a visual reminder of strategies

Researching our October Energy Awareness Month theme; making announcements to the student body during Morning Meeting; supporting students with ideas to make ONE CHANGE in behavior/habits
Energy Content/Resources GOAL #3

- NEED Intermediate and Secondary Energy Info Books
- NEED Projects and Activities Booklet
- NEED website - www.need.org
- NEED Energy Games and Icebreakers

Evaluation GOAL #3

- Students writing facts and tips reinforce what was learned earlier in the year
- Informal feedback from school community about facts and tips
- Bosque Buzz Electronic Newsletter reaches 1000+ families, Trustees, and community each week – BEEP Energy STARS are highlighted for the first time this year
- Over 100 specific energy-saving ideas are shared
- New students join the BEEP Energy STARS- former STARS give support
- School pride at being energy aware and efficient

Finn and Mary – former Energy STARS – support the middle school club!
Goal #4

- Learn about electronic waste, then promote, participate, and host Bosque School-sponsored community E-Recycling event.
- Participate and support school-wide recycling and responsible resource use

Energy Activities GOAL #4

- Learn about consequences of electronic waste in the environment
- Tech Director arranges event with Albuquerque Recycling
- Promote with announcements and signs around school
- Assist community members during drop-off by carrying and sorting electronics
- Continue and increase recycling efforts at school

Student Leadership GOAL #4

- Students promoted the E-recycling event with announcements and posters
- Students encouraged peers to participate
- Students worked with the tech directors, Albuquerque Recycling director, and with community members of diverse ages and backgrounds.
- Students assisted community members in transporting old/unwanted electronics
- Students sorted and filled 8+ cases/pallets _ over 6000 pounds
- Student teams educate the community with PSA’s and ads about recycling
- Student teams collect from school classrooms and work areas (school was closed before we had chance to weigh recycling)
Energy Content/Resources GOAL #4

- NEED *The Story of Trash*
- NEED *Museum of Solid Waste and Energy*
- NEED *Talking Trash*
- Albuquerque Recycling, Inc.
- Mr. Curt Bland, Director of Technology
- Mr. Matt Fike
- Ms. Sky Jenkins and Ms Sheila Gijelva, Service Learning Dep’t.
- Mr. David Heithaus, Account Executive, Albuquerque Recycling, Inc.

Evaluation GOAL #4

- Increase in involvement by students on a weekend event.
- Added even more students to Energy STARS!
- Ongoing recycling becomes part of school culture (school was closed due to COVID19 before we could finish the weight data collection of recycled paper)
- Food Waste is decreasing (but unable to measure due to school closure)
- Collected and filled over 8 cases/pallets of electronics that will NOT be in landfills and waste stream—over 6,000 pounds!
Goal #5

- Plan and carry out a NEED Energy Week to teach, promote, challenge, and raise awareness of energy usage in our schools, our families, and community.
- Celebrate Energy Week by promoting and sustaining a culture of energy awareness and encouraging energy conservation

Energy Activities GOAL #5

- Students announce Energy Tips, Jokes, Facts, and Challenges for morning announcements
- Students review and research energy facts
- Students distribute posters announcing daily Energy Conservation Challenges for the week
- Encourage students and staff to sign an energy pledge to conserve and save, distributing Energy Conservation Contracts to those who wish to conduct energy surveys at home
- Provide energy puzzles, NEED pencils, and solar beads to those who sign
- Information published in the Bosque Buzz Electronic Newsletter that reaches over 1000 families, community, Board of Trustees
- Prior to shut-down, inform school community of shut-down procedures.

Student Leadership GOAL #5

- Students initiate the idea to have an outreach at school in the form of an Energy Week based on the NEED Energy Week.
- Students research and select topics for tips for newsletter and PSA’s
- Students submit energy tips, make daily announcements to the student body during Morning Meeting
- Students post reminders and acknowledgments for lighting, energy, and recycling
- Students post handwashing – 20-second-songs!
- Students help distribute and reinforce shut-down procedures
Energy content/Resources GOAL #5

- NEED Intermediate and Secondary Energy Info Books
- NEED Projects and Activities Booklet
- NEED Blueprint for School Energy Teams
- NEED website - www.need.org
- NEED Energy Games and Icebreakers
- Mr. Kirk Ward – Bosque School Facilities Director
- Mr. Robert Lazar, APS Water and Energy Conservation Coordinator

Evaluation GOAL #5

- Students writing facts and tips reinforce what was learned earlier in the year
- Informal feedback from school community about facts and tips
- Bosque BUZZ Electronic Newsletter reaches almost 1000 families, Trustees, and community each week – BEEP Energy STARS were highlighted for 3 weeks
- Over 350 names (students, staff, and parents) on the Energy Pledge!
- Classrooms and work areas have lights and computers off when not in use.
- School pride at being energy aware and efficient

Fliers and announcements throughout the week CHALLENGE our staffulty and community to make a change

<table>
<thead>
<tr>
<th>AT SCHOOL</th>
<th>AT HOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mellow Monday:</td>
<td>low/no lights</td>
</tr>
<tr>
<td>Too-cool Tuesday:</td>
<td>low/no heat/cool</td>
</tr>
<tr>
<td>No-Waste Wednesday:</td>
<td>no/low food waste</td>
</tr>
<tr>
<td>Thirsty Thursday:</td>
<td>use water bottles</td>
</tr>
<tr>
<td>Footprint Friday:</td>
<td>unplugging</td>
</tr>
</tbody>
</table>

Bonus: Persuade your family to change at least one light bulb to CFL (compact fluorescent) or LED (light-emitting diode)

Visit our website to try out the new Light Box, learn about your carbon footprint, and sign the pledge to conserve resources at school, at home, in the world you were brought to you by the BEEP Bosque Energy Education Program.


Please think of what YOU can do to DO THE EARTH A FAVOR: BE AN ENERGY SAVER! Sign the energy pledge, and watch for Energy STARS throughout the week as we remind and reward your energy-saving behaviors!
Goal #6

- Respond to coronavirus–related school closure with energy shutdown recommendations
- Model responsible use of resources by making home-made cloth masks

Energy Activities GOAL #6

- Information published in the *Bosque Buzz* Electronic Newsletter that reaches over 1000 families, community, Board of Trustees
- When COVID19 surfaced, our Energy Week was cut short, but students shared hand-washing techniques
- Prior to shut-down, inform school community of shut-down procedures
- Students used available materials to make cloth masks for family, friends, and to First Responders and the Navajo Nation

Student Leadership GOAL #5

- Students post handwashing – 20-second-songs!
- Students help distribute and reinforce shut-down procedures
- Students find instructions, materials, and resources to make cloth masks

Energy content/Resources GOAL #5

- Center for Disease Control (CDC.gov) When and How to Wash Hands
- (CDC.gov) Use of Face Coverings to Help Slow Spread of COVID-19

Evaluation GOAL #5

- Students and staffulty were singing the songs all around campus!
- So far, almost 100 masks made and distributed…so far….
Summary of Energy STARS 2019-2020 Goals

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Our final meeting! 😊