

**Los Alamos County Department of Public Utilities
PEEC Service Agreement AGR16-033**

**2016 Calendar Year Report
January 23, 2016**



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Program Summary

In February 2016, Pajarito Environmental Education Center (“PEEC”) entered into a contractual agreement with the Los Alamos County Department of Public Utilities (“DPU”) to provide educational services to DPU customers about water and energy conservation in Los Alamos County.

This contract continues the work started under a previous contract between DPU and PEEC, carried out between 2012 and 2015.

The period covered by this report is calendar year 2016, starting in February, when the contract went into effect. During this time, PEEC engaged in outreach efforts through Los Alamos Public Schools (“LAPS”) and at public venues.

This report contains a summary of outreach efforts and results, budget summaries for 2016, and overviews of each of the task orders, including a brief summary of work completed and plans for continuation of each project. A summary of curricula is provided. Finally, the report includes a list of teacher contacts, publicity materials and teacher evaluations.

Complete curricula, outfitted trunks, activities, giveaways and other materials are stored at the Los Alamos Nature Center and may be viewed there. If you would like to observe a lesson, please contact Siobhan Niklasson at educator@pajaritoeec.org.

Cover photo: Los Alamos 4th graders learn about groundwater at the 2016 Los Alamos Water Festival. Photo: Vinton Miller

Year-at-a-Glance

2016 Outreach Summary

- **1995 student contacts** made with energy and water conservation lessons during school hours
- **268 4th graders** took part in interactive demos about water and the annual Los Alamos Water Festival
- **over 1200 people** participated in hands-on demonstrations of Los Alamos County electricity sources at Discover E, PEEC's Earth Day event, and the Los Alamos Science Fest
- **390 people** learned about waterwise gardening at ChamberFest and the Master Gardener Fair
- **220 people** checked out practical home efficiency solutions at the Home Efficiency Expo
- **81 people** toured energy efficient homes in the county

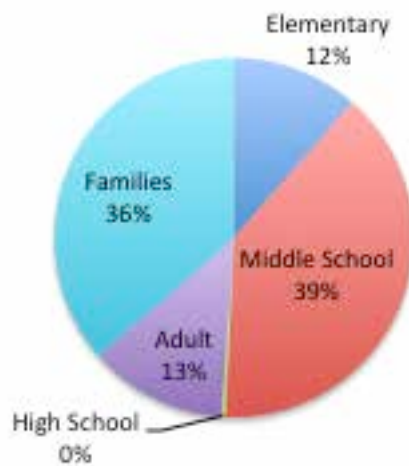


Above: Students at Piñon School spend a day in the life of a water droplet during a water cycle game.

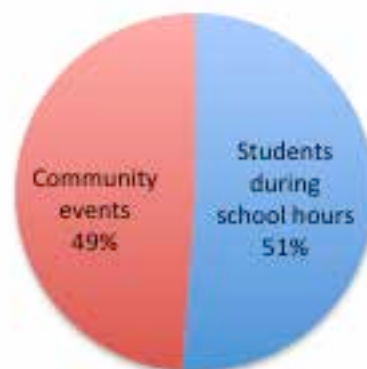
People Reached by Contract Year



2016 Audience Reached by Age



2016 Outreach by Venue





Left: The Department of Public Utilities' Clay Moseley and a 4th grade student demonstrate water pumping at the 2016 Los Alamos Water Festival. Photo by Vinton Miller.

Right: Students experiment with water power at the DPU booth at PEEC's Earth Day Festival.



Left: Kids get ready to race with solar power. Photo by Vinton Miller

Participant Feedback:

"Thanks for organizing this tour. It was worthwhile and gave me many ideas. The hosts were all welcoming and informative."

- Energy Efficient Home Tour visitor

"Hands-on, completely engaging! The kids were totally into the learning. Perfect length of time to stay engaged! Well done! The ladies are incredibly engaging. Kudos to Denise and others."

- 4th-grade teacher

"The solar house really got the kids thinking about their own homes."

- 6th-grade teacher

"Great lesson! All students were excited and engaged in their learning. We can hardly wait to participate in Siobhan's lesson on water."

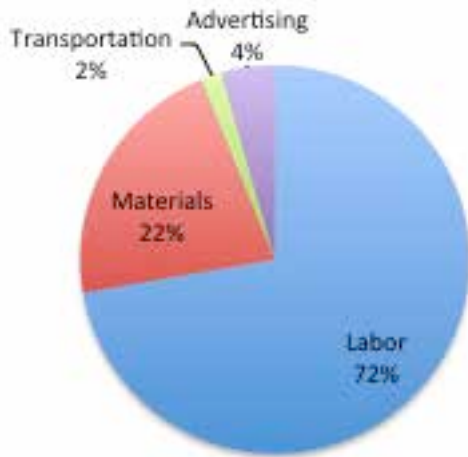
- 4th-grade teacher

Budget Summary

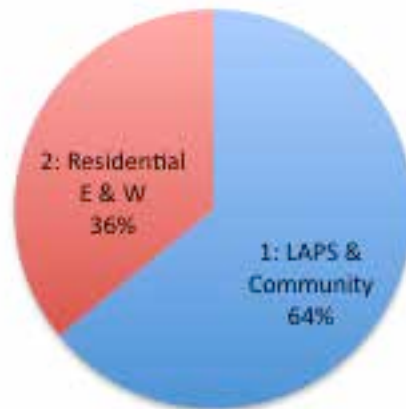
Budget Overview February – December 2016

Task Order	Student Contacts	Hours	Category	Budgeted	Spent	Remaining
1: LAPS & Community	3415	386.25	Advertising	\$500	\$154	
			Labor	\$24,000	\$15,450	
			Materials	\$11,500	\$6,815	
			Transportation	\$2,000	\$602	
			Total	\$38,000	\$23,021	
2: Residential E & W	485	258	Advertising	\$1,200	\$1,422	
			Labor	\$7,200	\$10,320	
			Materials	\$3,600	\$957	
			Transportation	\$0	\$0	
			Total	\$12,000	\$12,699	
All Task Orders	3900	644.25	Total	\$50,000	\$35,720	\$14,280

Spending by Category



Spending by Task Order



Invoice Summary February – December 2016

Month	Student Contacts	Hours	Amount
February	965	121.00	\$5,899.07
March	25	54.50	\$3,720.47
April	803	89.25	\$7,219.81
May	88	38.25	\$2,090.02
June	390	13.25	\$646.55
July	600	11.00	\$888.28
August	0	37.00	\$1,784.79
September	220	53.00	\$2,508.92
October	220	74.50	\$4,408.12
November	589	98.00	\$4,027.77
December	0	54.50	\$2,526.18
TOTAL	3900	644.25	\$35,719.98

2016 Task Order Overviews

Los Alamos County Public Schools and Community Outreach

Task Order I

Goal:

Educate Los Alamos students about energy and water and the importance of conservation through hands-on instruction in K-12 classrooms and at community events

Scope:

Modify and implement classroom curricula that include hands-on in-class activities and field trips that meet New Mexico State curriculum and Common Core standards. The instruction should focus on energy and water especially as they relate to Los Alamos County; understanding energy conservation; and/or other topics deemed appropriate by agreement between PEEC and DPU staff. A PEEC representative will present the curricula, on invitation from the classroom teachers, in Los Alamos schools. Organize a water festival for 4th-grade students including water-themed activities and giveaways. Bring energy and water themed exhibits to community events.

YEAR-END COMMENTS:

1) Accomplishments:

We improved upon some lessons and created other new lessons addressing energy and water conservation. Our 8th-grade energy unit continues to be one of our most-demanded programs, and middle school outreach constituted about three-quarters of our in-class student contacts. We hosted the second annual 4th grade water festival. The festival featured presenters from around the community, including Los Alamos County, Los Alamos National Laboratory, PEEC and Bandelier National Monument. We also created new materials for a traveling booth about Los Alamos County electrical sources, and brought this exhibit to several community events, including PEEC's Earth Day, Los Alamos ChamberFest, and Los Alamos ScienceFest. We hired a high school student intern to assist in the booth design.

2) Plans for future work:

In the coming year, we plan to completely revise our offerings for grades 3-6 and advertise these new programs to teachers. We also hope to increase our outreach to the high school through offerings to relevant courses and the eco club. We are also working on plans for an interactive exhibit for students about solar power.

**Los Alamos/White Rock Residential
Energy and Water Efficiency Outreach
Task Order 2**

Goal:

Educate Los Alamos County residents and homeowners about energy and water conservation at home.

Scope:

Organize a home efficiency expo and home efficiency house tours to demonstrate energy and water efficient solutions to Los Alamos residents and homeowners. Create signage to be displayed at the Los Alamos Nature Center highlighting energy and water conserving features such as photovoltaics, water harvesting and waterwise gardening. Offer quarterly public program about energy and water conservation.

YEAR-END COMMENTS:

1) Accomplishments:

We organized our second annual home energy efficiency expo, and hosted our first ever energy efficiency home tour. In addition, we provided outreach through the Master Gardener Fair about water conservation in the garden and designed a sign to be displayed at the nature center about water conservation strategies for the garden. We are currently working on an exhibit for the nature center educating residents about our rooftop solar panels.

2) Plans for future work:

In the coming year, we are considering instituting an alternate-year schedule for the home efficiency expo and home efficiency tour (expo one year, tour the next), as we want the public's interest in these events to remain high. We also hope to complete design work and install the solar panel exhibit. Public programs, including a tour to the County solar array, and an event celebrating the unveiling of our waterwise gardening exhibit, are in the works.

Curriculum Overview

Lesson Summaries 2015 – 2016

Complete lesson plans are stored at PEEC.
Contact educator@peechnature.org to see them.

3rd – 5th grade water: What is an aquifer?

Many students have never thought about where their water comes from. In this lesson, students build an aquifer with gravel and water, come up with a plan to extract water from it, and practice harvesting water using a pump. They compare their model to the real aquifer underlying Los Alamos and the equipment the County uses to pump water. They learn about the energy it requires to pump our water and how saving water saves energy as well.

3rd – 6th grade energy: Passive solar investigation

Students learn about passive solar home design by participating in a simple experiment (younger grades) or by designing a “home” using insulated boxes, glass and different colors of paper to maximize solar gain (older grades). They use scientific practices, and experience how effective the sun can be as a heater. They discuss ways to control solar gain in a home to reduce the amount of heating and cooling required.

3rd – 6th grade energy: Energy transformations

Students observe a simple machine that transforms thermal energy to motion. They work together to come up with an explanation for how energy transforms from one kind to another. They discuss ways to conserve energy in the machine, and try their hand at designing their own energy-transforming machines.

7th grade: Water and carbon cycles

During a 4-day unit, students do experiments and play games to build on what they know about the water cycle and how it manifests in Los Alamos County. They also learn about the carbon cycle through hands-on activities and games. They discuss the importance of water and energy conservation under drought and long-term climate change conditions.

8th grade energy: Sources and transformations

During a 4-day unit, students explore energy sources and energy transformations through hands-on laboratory investigation. They distinguish between renewable and non-renewable energy sources, learn where their electricity comes from in Los Alamos County, and explore energy losses during transformations and discuss the efficiency of electricity production.

2015 – 2016 Teacher Contact List

(some teachers organize programming for others at their school)

Teacher	School	Email
Amy Gilbert	Aspen	a.gilbert@laschools.net
Andrea Determan	Barranca	a.determan@laschools.net
Kayti Herring	Barranca	k.herring@laschools.net
Svetlana Martin	Barranca	s.martin@laschools.net
Cynthia Richard	Chamisa	c.richard@laschools.net
Megan Lee	Chamisa	m.lee@laschools.net
Mitzi Mann	Chamisa	m.mann@laschools.net
Tammy Hinckley	Chamisa	ta.hinckley@laschools.net
David Parsons	Chamisa	d.parsons@laschools.net
Pamela Miller	District Office	p.miller@laschools.net
Barbara Musgrave	LAHS	b.musgrave@laschools.net
Whitney Pomeroy	LAHS	w.pomeroy@laschools.net
Jon Frost	LAHS	j.frost@laschools.net
Curtis Terrill	LAMS	c.terrill@laschools.net
Eva Abeyta	LAMS	e.abeyta@laschools.net
Sarah Szymanski-Blom	LAMS	s.blom@laschools.net
Carissa Pittman	Mountain	c.pittman@laschools.net
Kimberly Clayton	Mountain	k.clayton@laschools.net
Michele Altherr	Mountain	mi.altherr@laschools.net
Shanda Moore	Mountain	s.moore@laschools.net
Kati Steinberg	Piñon	k.steinberg@laschools.net
Kristen Martines	Piñon	k.martines@laschools.net
Sarah Hayes	Piñon	s.hayes@laschools.net
Whitney Muziani-Holland	Piñon	w.holland@laschools.net

Water Festival Information

2016 Los Alamos Water Festival

Sponsored by



Additional thanks to:

Pajarito Environmental Education Center
University of New Mexico-Los Alamos
Bandelier National Monument
City of Santa Fe
Los Alamos National Laboratory
New Mexico State University
And our wonderful volunteers!

Water Festival Schedule

Date: April 8 & 15, 2016

Location: UNM-LA

8:30	Presenter Setup
9:15 – 9:30	Buses arrive at Sullivan Field
9:30 – 9:40	Introduction (Student Center)
9:45 – 10:10	Lesson 1 (all spaces)
10:15 – 10:40	Lesson 2 (all spaces)
10:40 – 10:55	Snack/recess break (outside)
11:00 – 11:25	Lesson 3 (all spaces)
11:30 – 11:55	Lesson 4 (all spaces)
12:00 – 12:40	Lunch (Mesa Field)
12:45 – 1:30	Closing project (all spaces)
1:30 – 1:45	Buses depart Sullivan Field
1:45 – 2:15	Clean up spaces

April 8 Lesson Schedule

Time →	Lesson1 9:45	Lesson 2 10:15	Lesson 3 11:00	Lesson 4 11:30	Project 12:45
Determan	606	Courtyard	517	Parking Lot	610
Lambson	Courtyard	517	Parking Lot	230	230
Lee	517	Parking Lot	230	608	608
Mann	Parking Lot	230	608	Kiva	202
Hayes	230	608	Kiva	203	203
Kress	608	Kiva	203	606	606
Siegel	Kiva	203	606	Courtyard	517
Homeschool	203	606	Courtyard	517	627

April 8 Presenter Classroom Schedule

Room Number	Title	Presenter
606 (Classroom)	Groundwater	LANL
Courtyard	Water Pumping	Department of Public Utilities
517 (Art room)	Water Testing	NMSU
Parking Lot	Wildland Fire	Bandelier
230 (Lecture hall)	Surface Tension	PEEC
608 (Classroom)	Wastewater Treatment	Department of Public Utilities
Kiva	Drop in a Bucket	City of Santa Fe
203 (Media room)	Aquatic Wildlife	PEEC

Community Presenters

Organization	Name	Contact Information	Presentation Title
City of Santa Fe	Caryn Grosse, Lisa Noriega	cychavez@santafenm.gov	Drop in a Bucket
Los Alamos National Lab	Emily Snyder, Michelle Bourret	esnyder@lanl.gov	Groundwater Model
PEEC	Jennifer Macke	jpmacke@comcast.net	Aquatic Wildlife
Bandelier National Monument Fire Management Program	Ryan Brenteson, Hanna Davis	ryan_brenteson@nps.gov	Wildland Fire
NMSU	Rossana Sallenave	rsallena@ad.nmsu.edu	Water Testing
Department of Public Utilities	Jennifer Baca	jennifer.baca@lacnm.us	Wastewater Treatment
PEEC	Sarah Gustafson	sarahgus@cybermesa.com	Surface Tension
Department of Public Utilities	Clay Moseley	clay.moseley@lacnm.us	Water Pumping



2016 Water Festival Logo Contest

"Water is Life"

The Los Alamos Department of Public Utilities is calling 4th grade artists!! Put your imagination to work by submitting an original drawing for the 2016 Water Festival!

The theme for the 2016 Water Festival is "Water is Life." Draw a picture representing this theme and what it means to you. Be sure to include the words "Water is Life."

The 2016 Water Festival Logo Contest is open to 4th grade artists in Los Alamos County. The winning design will be used as the official 2016 Water Festival logo and will be placed on event t-shirts, drawstring bags and other official event materials.



**Participants will receive a thank-you gift from the
Department of Public Utilities
Winner will receive a gift certificate to Village Arts**



Logo Contest Guidelines:

1. All entries should be drawn in **thick, black ink on plain, unlined white paper**. The lines should be thick enough to reproduce properly on a t-shirt.
2. All entries should be no larger than **8.5 x11 inches** in size.
3. The words **"Water is Life"** should prominently appear somewhere on the design.
4. Drawings can be made on the back of this form. If another sheet of paper is used, the artist's name, school, address, phone number, parent/guardian name must be written *lightly (preferably in pencil)* on the back of the entry.
5. All artists must be enrolled in LAPS or homeschooled in 4th grade to be eligible.
6. The artwork must be the child's original artwork.

Entry Deadline: 4 PM, Sunday, March 20, 2016

Mail or Deliver Entries to:

Los Alamos Nature Center
ATTN: Siobhan Niklasson
2600 Canyon Road
Los Alamos, NM 87544

****IMPORTANT: Do not fold when mailing or delivering the design****

With questions or for more information, contact:
Siobhan Niklasson, educator@pajaritoeec.org or 505-662-0460

Artist Name: _____ School: _____
Address: _____ Phone #: _____
Parent/Guardian Name: (Print) _____ Sign: _____ Date: _____
By signing this form, I give permission for my child's artwork to be used by the Los Alamos County Department of Public Utilities and Pajarito Environmental Education Center in publicity materials

The Los Alamos Public Schools neither endorses nor sponsors the organization or activity promoted in this document. The distribution of this material is provided on an equal basis as a community service.

Energy Expo Information

Home Efficiency Expo

Date: September 24, 2016

Time: 10 AM – 1 PM

Location: UNM-LA Student Center

Exhibitors:

- Accent Southwest Windows & Doors
 - Chad Boetger, chadb@southwestwindows.com & Greg Noel, gregn@southwestwindows.com
- ECC Solar Energy Concepts Corporation
 - Kevin Murphy, kevin@eccsolar.com
- Los Alamos Dept. Public Utilities
 - James Alarid, james.alarid@lacnm.us
 - Julie Williams-Hill, julie.williams@lacnm.us
- Los Alamos County Environmental Services
 - Angelica Gurule, angelica.gurule@lacnm.us
- Los Alamos County / NM State University – Cooperative Extension (Service Family & Consumer Science/4-H Agent)
 - Contact: Helen Idzorek, hidzorek@ad.nmsu.edu
- The Finishing Touch
 - Cheryl (Owner)
 - Had to mention event in person to her. No email contact available.
- Pajarito Environmental Education Center
 - Siobhan Niklasson, educator@peecnature.org
- Positive Energy
 - Karen Paramanandam, Karen@positiveenergysolar.com

Cancellations

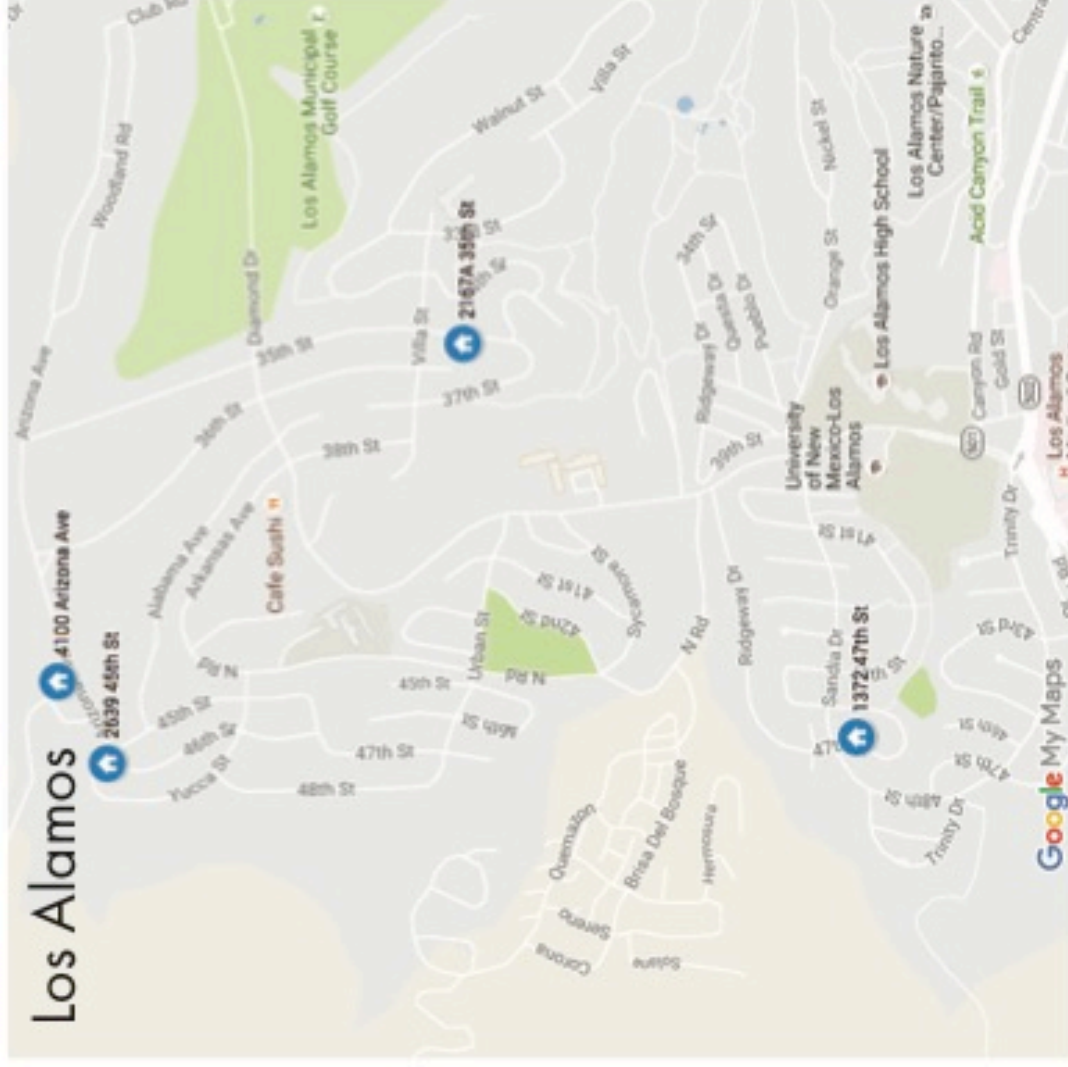
- Dreamstyle Remodeling
 - Taylor Williams, twilliams@dreamstyleremodeling.com
- Homewise, Inc.
 - Agiola Bejko, abejko@homewise.org
- Mechanical Controls Solutions (MCS)
 - Sharon Ray, 505-888-1616, sharonray7@hotmail.com
- Metzger's Do It Best
 - 505-662-3715

Home Tour Information

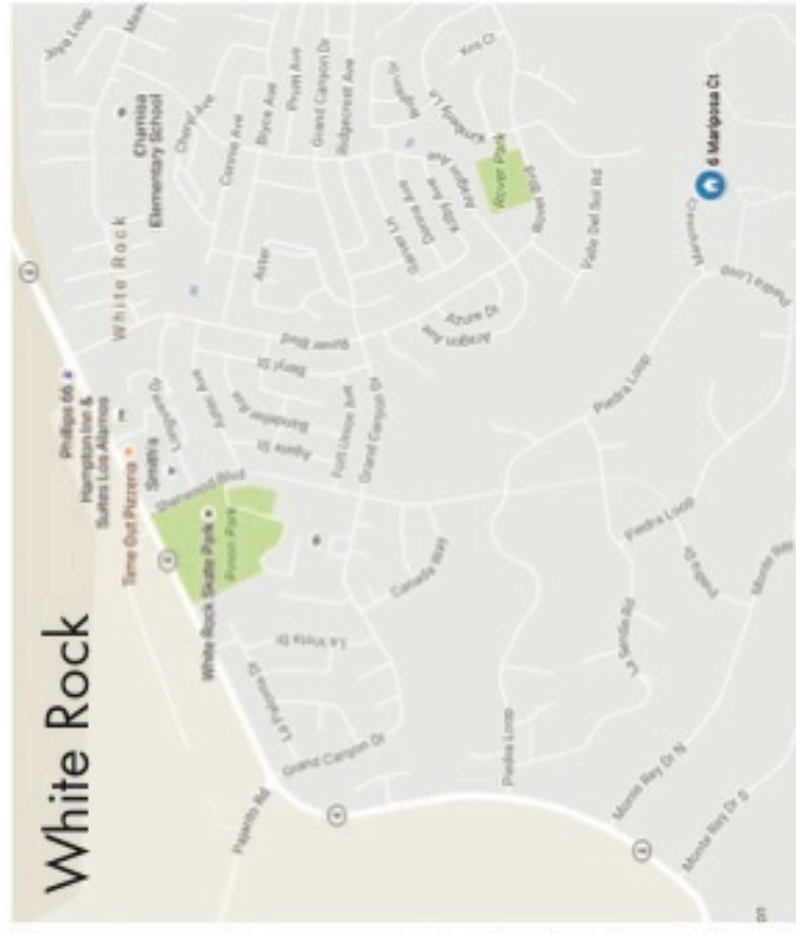


Energy Efficiency Home Tour Map

Saturday, October 15, 10 AM to 2 PM



Five houses. Four hours.
One great day of learning and inspiration.



PEEC
Pajarito Environmental
Education Center

Details of the houses can be found on the back of this flyer.
Questions? Call PEEC at (505) 662-0460.

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Department of Public Utilities
Electric, Gas, Water and Wastewater Services

Energy Efficiency Home Tour - The Houses

Gursky & Bolton Home

2639 45th St. Los Alamos, NM



This 5,000-square foot home, built in 2004 after the Cerro Grande Fire, uses less energy than their previous 2,200-square foot home. Look for their xeric but lush garden that provides both shading and privacy, and quality construction features that save on heating and cooling.

Frederickson Home

1372 47th St. Los Alamos, NM



The homeowners have spent many years updating a classic government home with modern energy-efficient features. Look for a heat-collecting sunroom, efficient appliances, and a rooftop solar array that offsets the family's annual electrical load.

Fitzgibbon Home

4100 Arizona Ave. Los Alamos, NM



This striking home, built after the Cerro Grande fire, matches daring design with an array of features to save energy and maintain comfortable temperatures year-round. Look for passive solar features that provide optimal solar gain and shading, as well as innovative building materials that provide thermal mass and insulation.

Meyer Home

2167A 35th St. Los Alamos, NM



This original 1949 government duplex has been updated with solar panels and a xeric garden. Look for native plants, terracing and drought-tolerant cool-season grass that drop outdoor irrigation to almost nothing.

Shankland Home

6 Mariposa Ct. White Rock, NM



This home, built during the energy crisis of the 1970s, uses passive and active solar features to allow the homeowners to avoid active heating during the winter. Look for many solar features including orientation, thermal mass, a trombe wall, Skylids, photovoltaics, and solar hot water. Check out the electric vehicle in the garage!

This tour was made possible thanks to support from these homeowners, Los Alamos County Department of Public Utilities, and Pajarito Environmental Education Center.

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Electric, Gas, Water and Wastewater Services



Energy Efficiency Home Tour

October 15, 2016

LOS ALAMOS

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The Fitzgibbon Home

4100 Arizona Ave. Los Alamos, NM

Owners: Sally and Joe Fitzgibbon
Built after the Cerro Grande Fire

Energy-efficient Features:

- Oriented 10 degrees east of south for optimal solar heating in the morning, shade in the afternoon
- In summer, windows are almost never in direct sun because of overhangs and a vertical wall extending from the south side of the house
- Concrete floors both upstairs and downstairs for increased thermal mass
- House constructed of RASTRA blocks, made of recycled polystyrene and filled with reinforced concrete for even more thermal mass
- Insulation on both sides of RASTRA blocks
- Third-floor belvedere acts as a chimney, venting the entire house
- Double-paned windows with low E coating and insulated with argon gas
- On-demand hot water
- Efficient appliances
- LED lighting
- In-floor radiant heating
- Xeric garden design
- Rainwater harvesting: water runs off the roof and is collected in two cisterns (3400 gal.)
- Drip irrigation taps cisterns

Notes:

Energy Efficiency Home Tour

October 15, 2016

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Electric, Gas, Water and Wastewater Services



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The Frederickson Home

1372 47th St. Los Alamos, NM

Owners: Paul and Rosmarie Frederickson

Built by the government in the late 1940s

Energy-efficient Features:

- 1.5 inches of insulation added to original house on outside under stucco
- All additions insulated with fiberglass
- New energy efficient windows
- Skylight opens to circulate air within the home
- Honeycomb blinds, sealed in frame
- Sunroom facing east and south allows for solar gain
- Removable shade on upward-facing windows
- Stone floor in sunroom provides thermal mass
- Sunroom can be opened and closed to the rest of the house
- 5 separate heating zones
- Induction stove
- LED lighting throughout the house
- 70% efficient wood-burning fireplace insert with re-burner
- Electric on-demand hot water
- Fixed solar panels offset annual household use for both electric and hot water
- Huge garden allows the family to produce much of their food, including winter canning
- Automatic drip irrigation
- Grape arbor provides shade and grapes

Notes:

Energy Efficiency Home Tour

October 15, 2016

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The Gursky & Bolton Home

2639 45th St. Los Alamos, NM

Owners: Kathy Gursky and Rick Bolton
Built in 2004 after the Cerro Grande Fire

Energy-efficient Features:

- Large east-facing windows allow for passive solar gain
- Double-paned windows
- 2x8 framing allows for thick layer of insulation
- Blown-in insulation
- Bedrooms in corners provide natural ventilation
- Ceiling fans circulate heat
- Honeycomb blinds
- Fluorescent and LED lighting throughout home
- Energy Star appliances
- Radiant heat on both floors
- Drip irrigation with timers
- Runoff from the roof drains through the gardens
- Deciduous trees to the east block sunlight in summer but not in winter
- Wisteria vines and retractable awning over patio
- Xeric garden design: oasis garden in back, other parts of the garden are less thirsty

Notes:

Energy Efficiency Home Tour

October 15, 2016

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The Meyer Home

2167A 35th St. Los Alamos, NM

Owner: Coleen Meyer

Built in 1949

Energy-efficient Features:

- Efficient windows and doors
- Energy Star appliances
- Energy-efficient LED lighting
- Solar panels more than offset annual electricity use: could potentially add an electric vehicle
- Xeric garden requires very little additional watering
- Native plants are adapted to survive with natural rainfall
- Garden is terraced to retain water
- Most drought-tolerant plants are planted at the tops of hills, plants that need more water are planted downhill
- Lawn planted with drought-tolerant, cool-season dwarf fescue
- No automatic irrigation system because the garden is watered so little: 1-hour soak once a week 3 or 4 times a year, in the heat of June and July

Notes:

Energy Efficiency Home Tour

October 15, 2016

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Electric, Gas, Water and Wastewater Services



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The Shankland Home

6 Mariposa Ct. Los Alamos, NM

Owners: Becky and Tom Shankland
Built during the energy crisis of the 1970s

Energy-efficient Features:

- House oriented 7 degrees east of south for optimal heating in the morning and shade in the evening
- Overhangs block direct sunlight in summer
- Adobe walls and brick floors provide thermal mass
- Wide roof joists allow for thick insulation
- Double-paned windows
- Thermal window treatments, especially on skylights
- Trombe wall
- Skylids: fluid-driven louvers in living room ceiling close automatically when temperature differential between outside and inside is high
- Hot air from near the ceiling is pumped into a rock bed under the floor
- Open fireplace has a vent to pull in cool air from outside
- Top-sealing chimney damper provides immediate updraft
- Grateless fireplace allows maximum radiation into the house
- Energy Star appliances
- Energy-efficient lighting

Notes:

Continued on back...

Energy Efficiency Home Tour

October 15, 2016



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Electric, Gas, Water and Wastewater Services



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The Shankland Home

Energy-efficient Features, continued:

- Solar hot water system
- Solar panels more than offset annual electricity use, including an electric vehicle
- Electric vehicle can be charged from the home's solar panels

Notes:

Energy Sources Exhibit



Evaluations

PEEC PROGRAM EVALUATIONS

Program:	DPU Energy Efficiency Home Tour				
Date:	10/15/16				
Number of people evaluated:	21				

Questions	1	2	3	4	5
1. Overall satisfied	2	0	2	9	8
2: Knowledgeable	1	0	0	9	11
3: Participate again	2	0	0	11	8
4: Can use info learned	2	0	2	8	8

Program Average
4.00
4.38
4.10
4.00

Price	#
Too Low	1
Just Right	19
Too High	0

Age Range:	Visitor #
Under 12	0
13-18	0
19-35	1
35-50	7
50-65	5
65+	8

Non-Members: become member if...	
I knew how it helped PEEC	1
Knew more about membership	3
Benefits were valuable to me	3
More programs I'd attend	0
Other (Comments below)	

Zip Codes	#
87544	11
87547	9
87506	1

Home tour comments:

Only went to one house. Assume the lack of signage was to avoid attracting unregistered people but as a result the program seemed unwelcoming. Good idea, might need tuning.

Need better directions especially to houses in Western area. Maps are too small and not very legible. We live in WR, and don't know the ordered number system up there.

We only went to the house in White Rock, since we live here. We wish we had trekked up to Los Alamos to see the other houses. Thus, if this is offered again, we will definitely sign up and make the effort to get uptown. Thanks

Some houses only had "green" gardening techniques or JUST solar panels.. Not seeing that as overly valuable. But I do appreciate the effort some folks put out! Impressive.

Hosts were Very welcoming and enthusiastic about their efficiency upgraded homes! The tour was excellent! Thank you to all the hosts and planners!

Would have liked to see more homes in WR.

More information about contractors/suppliers of the energy saving features. It is one thing to look at the model number and manufacturer of efficient refrigerators, and another to know who would be able to supply automatic draperies, and louvers.

Very informative, will put information gained to use

Program was great...would like to see more homes on your.

Nice community activity!

I only got to 2 houses, but would have seen more if the hours were longer, if it hadn't been the same day as the artists studio tour, or if I hadn't gone down to Becky's, but I really wanted to see it because I have been curious having seen it from a distance many times.