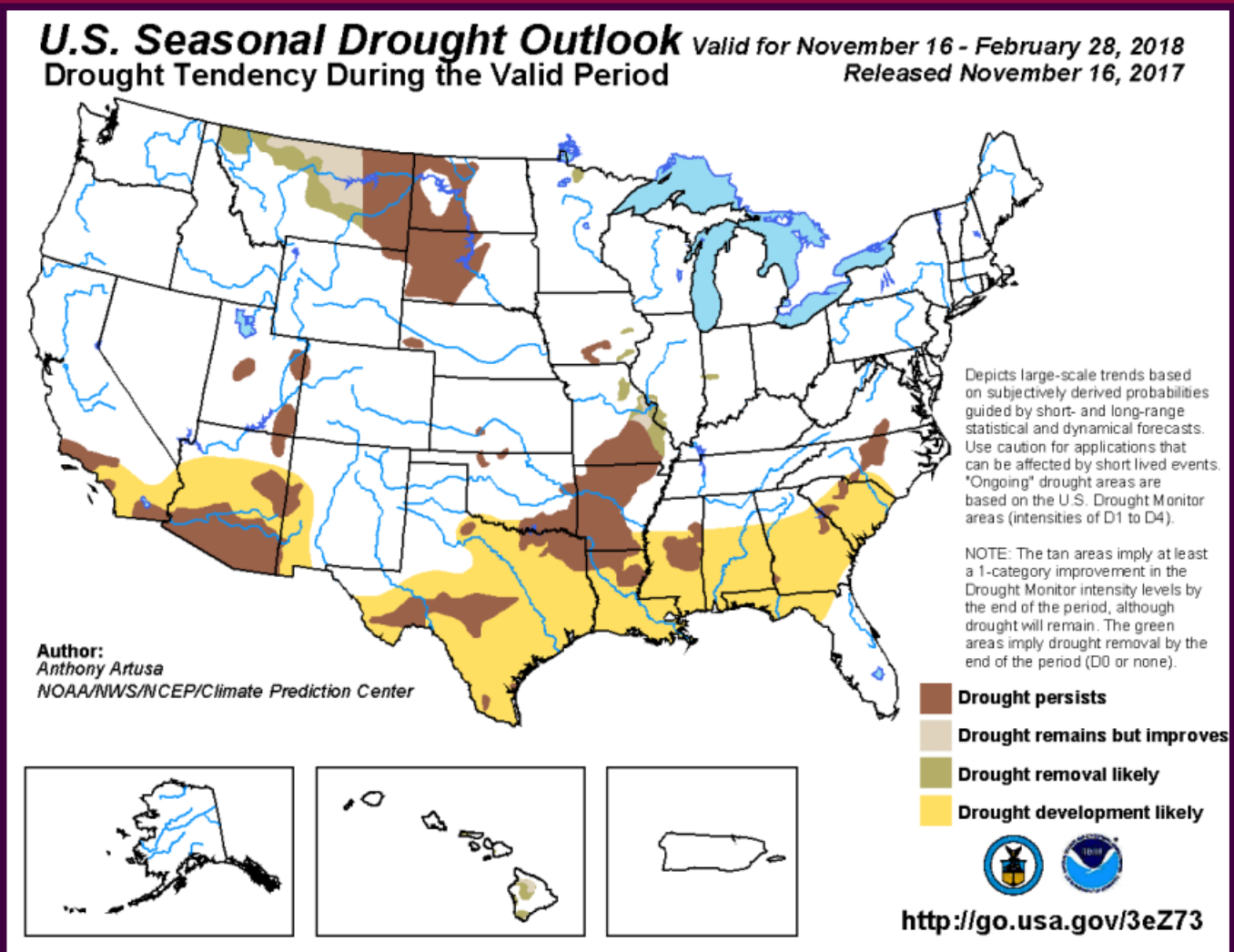




Facilities and Services
Office of Sustainability
2017 Annual Report



National Oceanic and Atmospheric Administration "Drought Outlook" November 16, 2017

Be a Green Aggie at NMSU!

Table of Contents

All About Discovery!™
New Mexico State University
nmsu.edu



3	2017 Summary	12	Earth Day Fair
4	Office of Sustainability	13	Outreach and Events
5	Energy Management	16	Sustainability Survey
8	Green Buildings	17	Sustainability Council
9	Environmental Education Center	18	2017 in Pictures
11	Waste Reduction	19	Acknowledgements



“Good management is the art of making problems so interesting and their solutions so constructive that everyone wants to get to work and deal with them.”

- Paul Hawken

**Wait! Wait!
Don't print me!**

Office of Sustainability and Environmental Education Center | Guthrie Hall, Ste. 109
O: 575.646.7563 | C: 575.202.9989 | sustain@nmsu.edu | www.sustainability.nmsu.edu

Go Aggies!

Go Green!



2017 was the seventh year of the Office of Sustainability at NMSU. Paul Hawken’s book *Drawdown* was published as the most comprehensive plan ever proposed to reverse global warming; students organized the **Sustainability Design Challenge** through the Aggie Innovation Space; it was our first year holding the **Earth Day Fair** at the Plaza de Las Cruces; finally (and sadly) the **Environmental Education Center (EEC) closed its doors** for seven months because Regents Row closed down. The EEC re-opened January 8, 2018 in Guthrie Hall, Room 109H.

Major NMSU Sustainability Accomplishments in 2017

- NMSU held to our promise to the University Presidents’ Climate Leadership Commitment and **completed the Greenhouse Gas** report, lowering our greenhouse gas emissions for the sixth year in a row.
- Installed a total of **50 hydration stations** in 38 different buildings since 2012.
- Received our second **Gold rating on the AASHE STARS*** report—yay team!
- **Earth Day Fair** was a great success, planned in conjunction with city, county, and university offices at the Plaza de Las Cruces.
- Revised the **Sustainability Initiatives** to nine, focusing on energy conservation, waste reduction and water conservation as the top three most important initiatives according to our **Sustainability Survey**, conducted during the summer.

NMSU Office of Sustainability Initiatives

1. Relationships
2. Energy reduction
3. Waste reduction



4. Water conservation
5. Climate Change Resilience
6. Food and health



7. Green buildings
8. Transportation
9. Social Justice



Go Aggies! Go Green!

Facilities and Services
Office of Sustainability

* Association for Advancement of Sustainability in Higher Education – Sustainability Tracking Assessment Reporting System



Mission Statement

To educate the NMSU community about climate change and to develop a common vision of sustainability through innovation, education, outreach, and action.

Vision Statement

To empower the NMSU community to care about the environment in which they live, work, and play and to carry that knowledge into their personal lives and for future generations.

9 Sustainability Initiatives

1. Relationships
2. Energy conservation
3. Waste reduction
4. Water conservation
5. Climate change resilience
6. Food and health
7. Green buildings
8. Transportation
9. Social justice



Core Values

- Respect and love for humanity and all living things
- Passion for the environment
- Integrity of actions
- Exemplify an understanding that the natural and built environments are intertwined
- Unity of purpose through collaboration and interaction of ideas

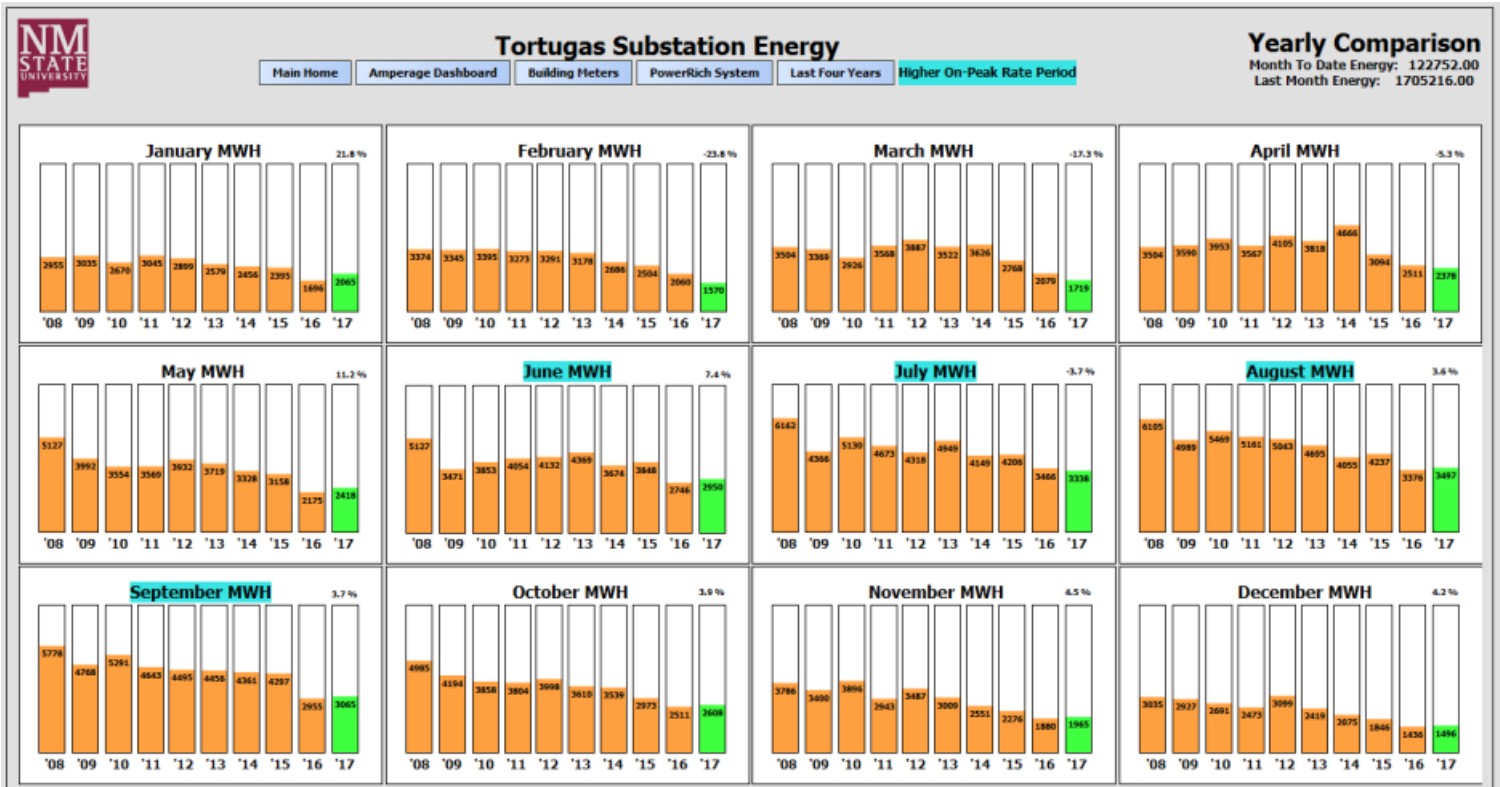
What is Sustainability at NMSU?

Sustainability at NMSU is a lifestyle and a responsibility. It features ways to improve and maintain the quality of human life while preserving the integrity, stability, and beauty of ecological systems for the future.

DRAWDOWN
THE MOST COMPREHENSIVE
PLAN EVER PROPOSED TO
REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN



Yearly Energy Cost Comparison — 2008 to 2017

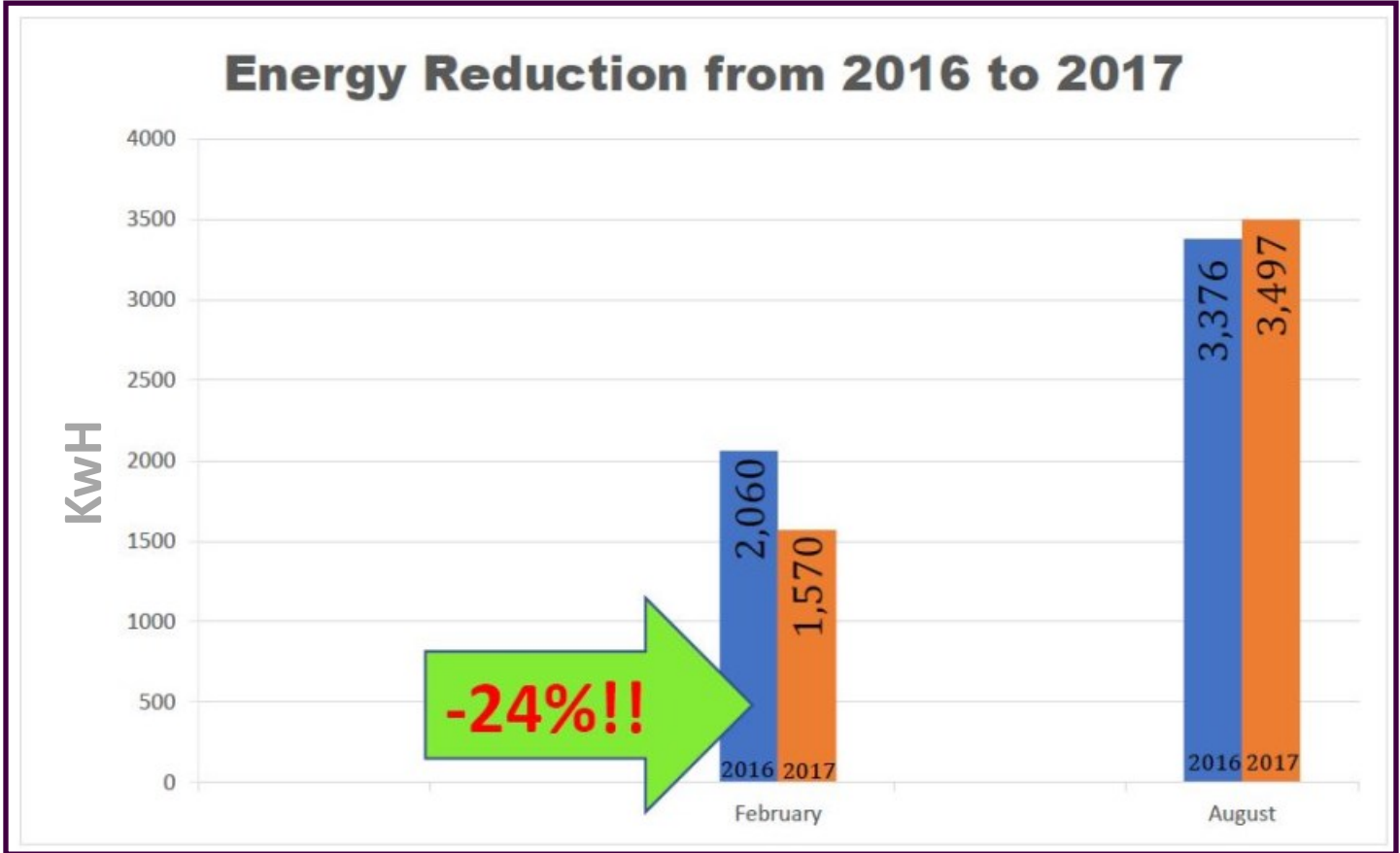


MwH—Megawatt Hours

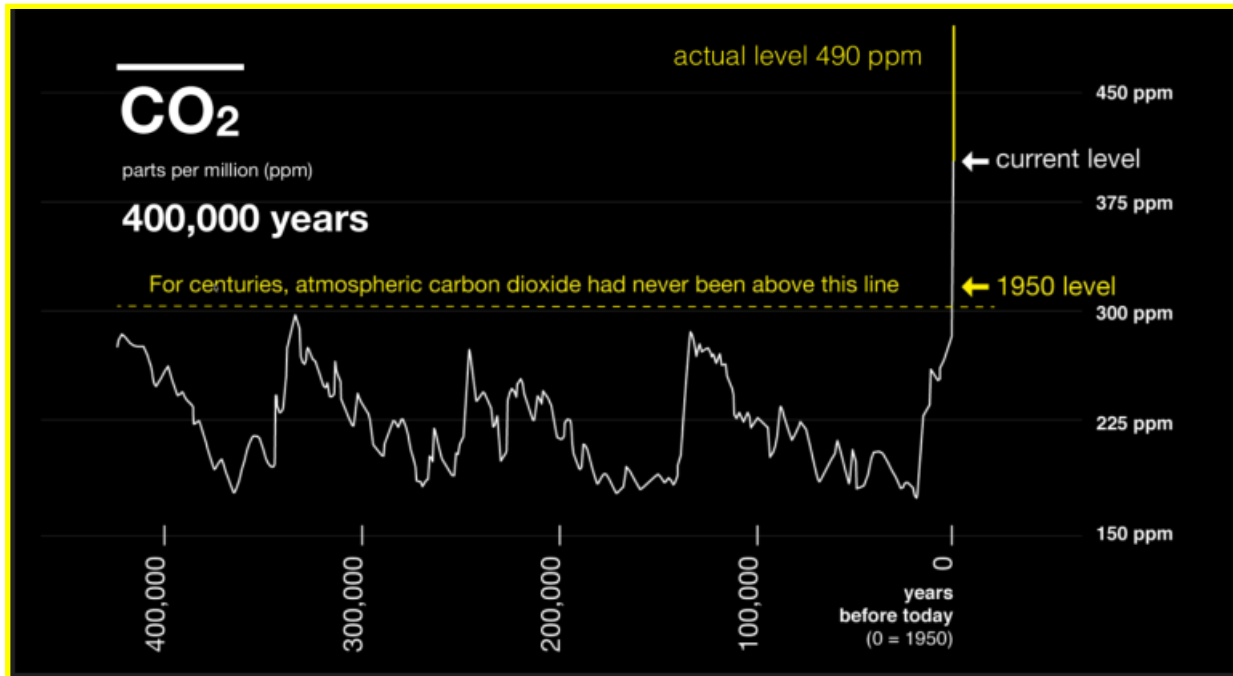
Ten Energy Reduction Tips

1. Wash clothes in cold water to save about \$65 a year
2. Install a programmable thermostat to save up to 10% on cooling and heating costs
3. Close window shades and blinds on the sunny side in summer to keep out the hot sun and open them in winter to bring in warm rays
4. Turn off all lights, appliances, and electronics not in use; a power strip turns off multiple items at once
5. Reduce energy use as much as 80% by switching to LED lightbulbs – they are now really low in cost
6. Look for the Energy Star label – you could save up to 30% on related electricity bills
7. Use low-flow faucets and shower heads to save on water bills
8. Clean or change filters regularly. A dirty furnace or A/C filter will slow down air flow and make the system work harder to keep you warm or cool
9. Reduce water heater temperature to 130° Fahrenheit
10. Seal air leaks and insulate to save up to 20% on heating and cooling bills, while increasing home comfort





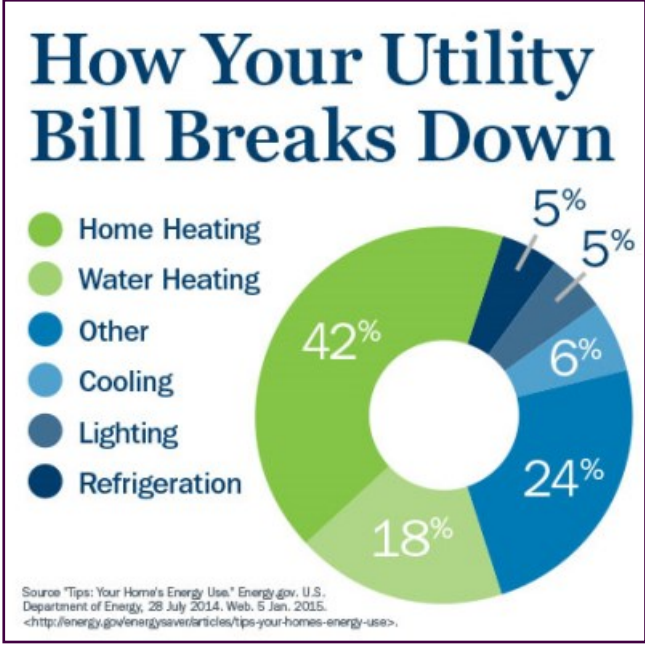
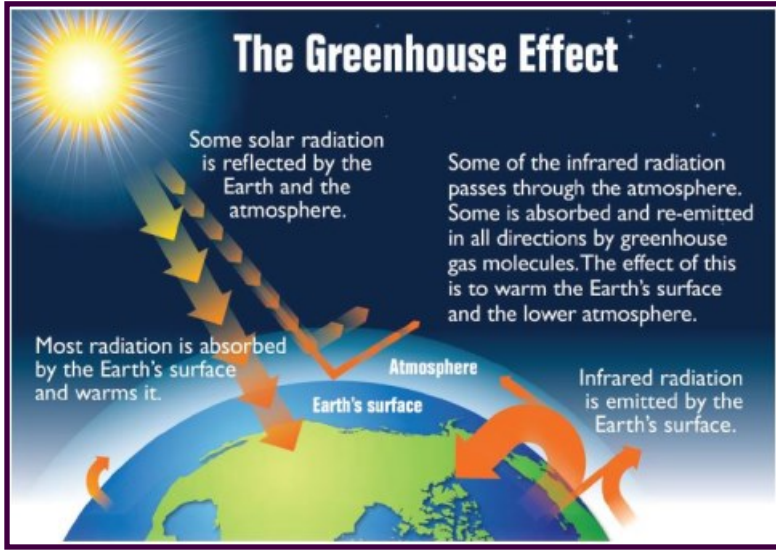
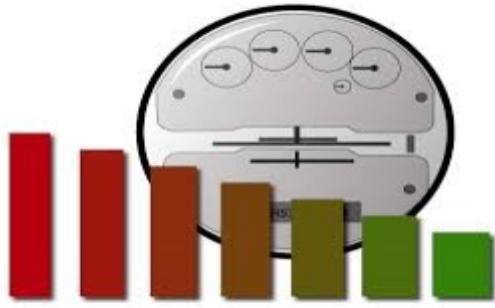
Above is a chart showing two critical months for utilities



Go Aggies!

Go Green!





ROOFTOP SOLAR

#10 RANK BY 2050

\$453B NET COST

24.6 GT REDUCED CO2

\$3,46T NET SAVINGS

Solar is rated #10 in the UN [Sustainable Development Goals](#) to reverse climate change

Go Aggies!

Go Green!



Green Buildings



We have **506,914** total gross square feet of LEED certified buildings campus-wide.
9 Gold and 8 Silver rated buildings



NMSU LEED Certified Buildings by Year		
Year	Building	Rating
2009	Alamogordo Health Sciences Center	Gold
2010	Football Coaches Office	Silver
2011	Alamogordo Advanced Technology Ctr.	Gold
	DACC East Mesa Ph. 5	Gold
	DACC Gadsden Center	Gold
	Gardiner Hall	Silver
2012	Addition to NMDA	Gold
	Carlsbad Allied Health	Silver
	Chamisa Phase II	Gold
2013	American Indian Student Center	Silver
	ASNMSU Center for the Arts	Gold
	Barnes + Noble	Gold
	DACC Hatch Center	Silver
	East Mesa Ph. 6/7	Silver
	Health and Social Services Annex	Gold
2014	DACC Sunland Park	Silver
2016	HJ Undergraduate Learning Center	Silver

Note: There were no new buildings LEED certified in 2017

Go Aggies!

Go Green!



Environmental Education Center

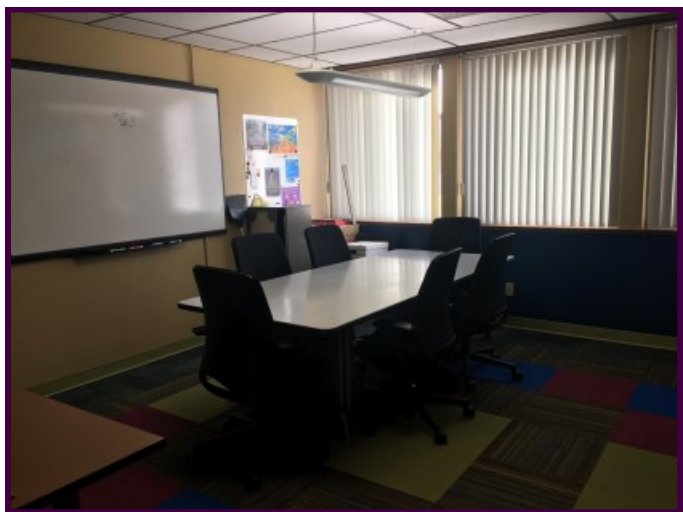
When the Environmental Education Center was closed in May 2017 due to Regents Row being shut down, we searched and searched for the perfect place to relocate. Guthrie Hall Room 109H, off the west building lobby, was our solution. Enjoy these pictures of the newly remodeled center—and then come visit!



The Office of Sustainability has soft seating and welcoming colors for casual conversations

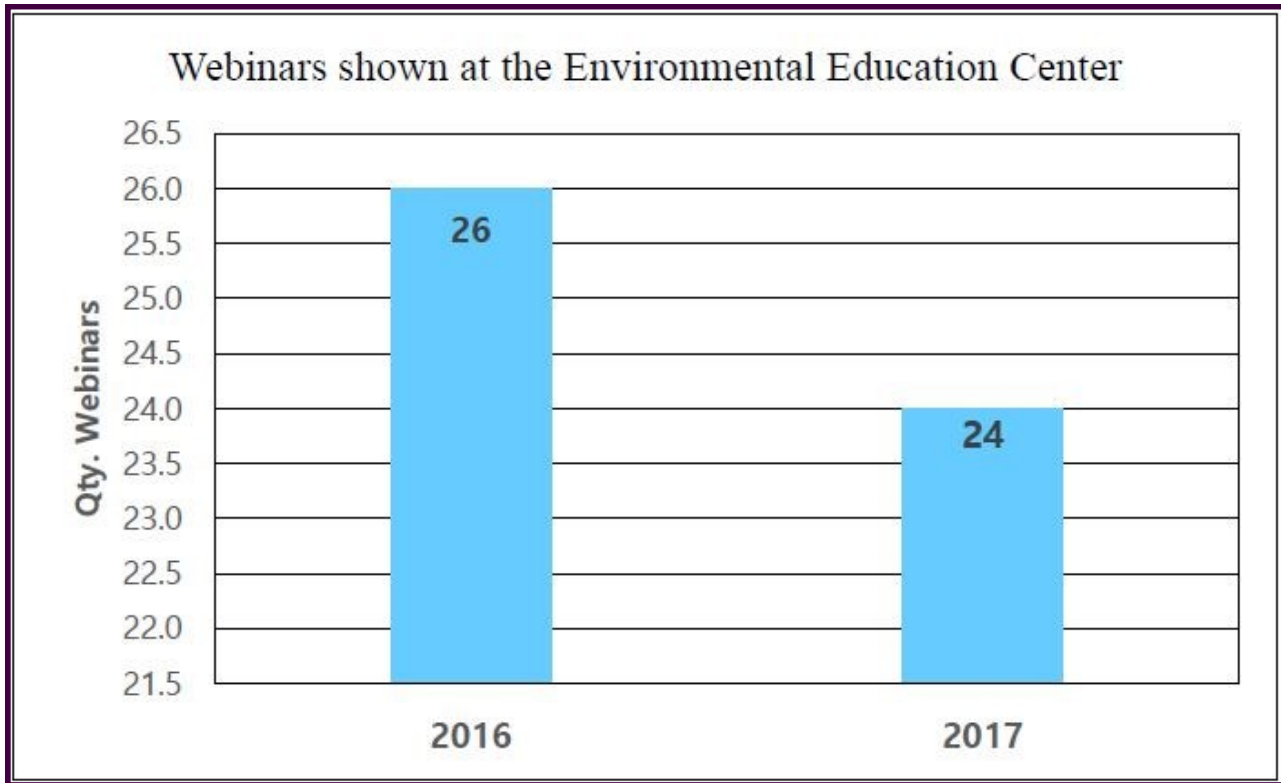


The Environmental Education Center is a colorful welcoming room where materials and furnishings are re-used from the old EEC (zero waste!)



The EEC has a conference area that seats 10, a big white board and energy-efficient lighting. Anyone on campus can reserve the room.

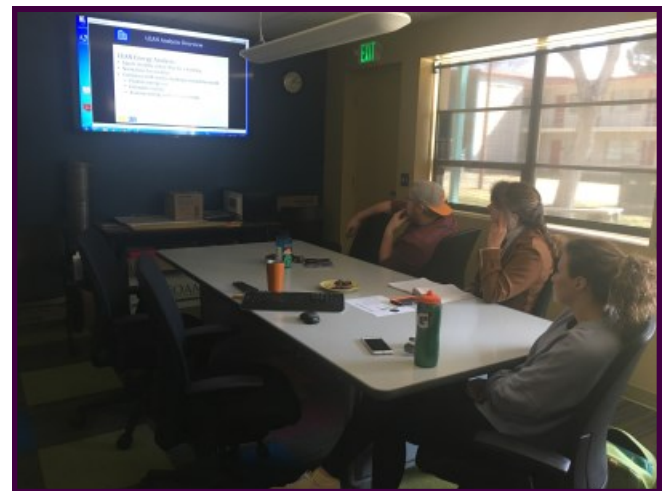
Call Joni to reserve the room 6-7563



Due to the closing of the Environmental Education Center spring 2017, the quantity of webinars went down a bit. Instead, the sustainability manager went out to campus to talk directly with students, faculty and staff. We had one-on-one dialogues on energy reduction, waste reduction, and water conservation, which are the top three topics that the Office of Sustainability focuses on.



#4 of the UN [Sustainable Development Goals](#), to reverse global warming, is a plant-rich diet



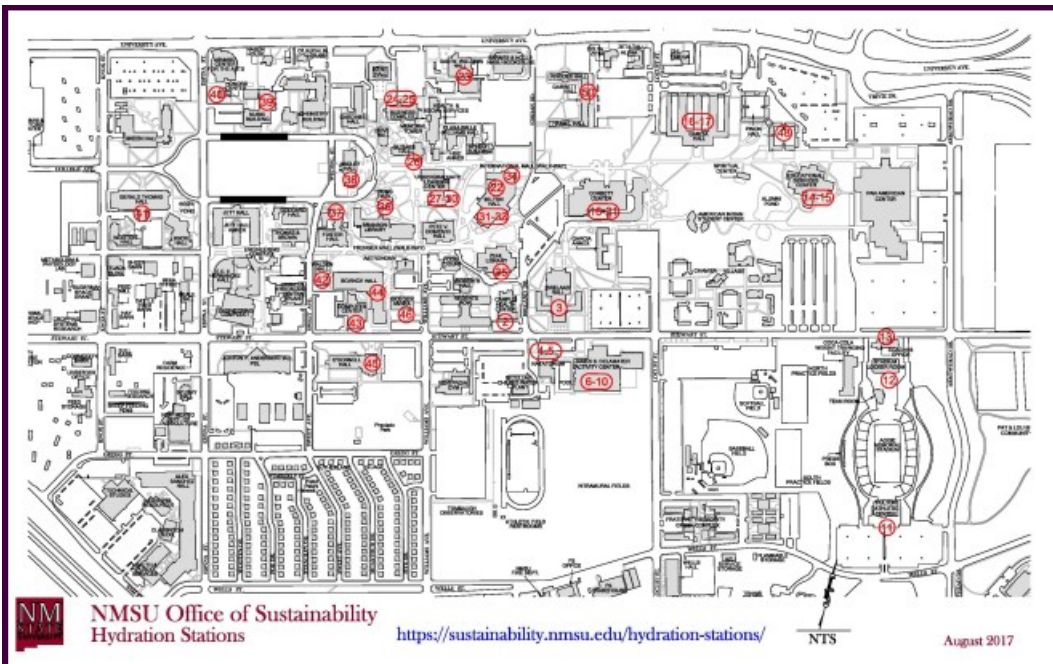
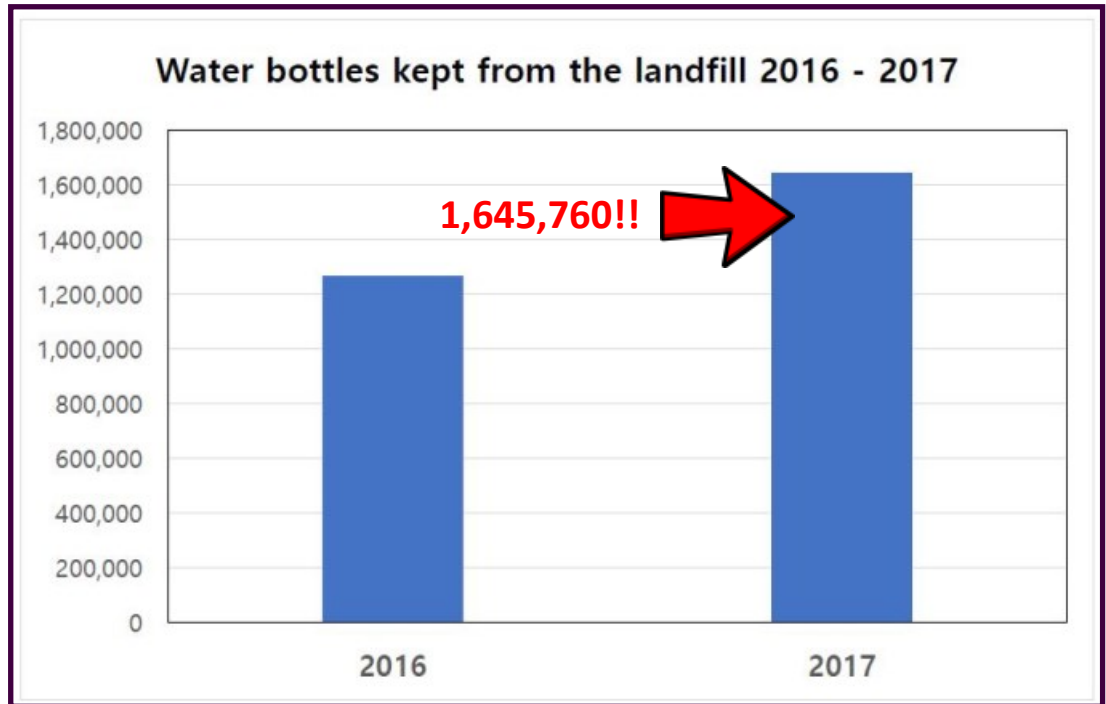
Faculty and students watching an AASHE webinar at the EEC

Go Aggies!

Go Green!



Our first hydration station was installed in 2012. By the end of 2017, **50 hydration stations were installed** in 38 buildings on main campus. Most people in the US still don't bother to get bottles into the recycling bin (only 25% do!), so by using our own reusable water bottles we are lowering the amount of items in our landfills, thus cutting NMSU's tipping fees. Good news—the **Environmental Education Center at Guthrie Hall gives away free water bottles**—stop by to get one and fill 'er up.



It takes 50 years for a polystyrene coffee cup to break down in the landfill. Gaagghhhh!



By the end of the fall semester 2017 we had a total of 50 hydration Stations on campus. This map was drawn by engineering student Mark Allen

Go Aggies!

Go Green!



Earth Day Fair

Earth Day Fair
 Saturday, April 22, 2017
 8:30 a.m.—3:00 p.m.
 Plaza de Las Cruces
 at the downtown mall

Party with a Purpose!

Zero Waste Event!
 BYO water bottle, utensils and reusable towel

Compost bins and recycling centers on site

Main Stage Entertainment

8:30 Michael Mandel and Bel Productions	12:00 Reuse and Recycle Fashion Show
9:00 Little Table Contraband	12:45 CLC Recreation Advanced Tumbling during Fashion Show intermission
9:30 Mesilla Valley Dance Collective	1:30 A. Billi Free
9:45 March for Science	2:00 Tribal Storm Belly Dancers
10:00 OutréDada	2:15 The Hooligans
10:45 Surprise event - don't miss it!	
10:55 New World Drummers + Dancers and Mei Ling's Silk Road, Jewels of the Desert	

live music and dance tree adoption
 food trucks local food farmers & crafts market
 green businesses eco-arts local vendors
 fun! kids' activities environmental education

This celebration is brought to you by the NMSU Organization of Aggie Students Inspiring Sustainability (OASIS), City of Las Cruces, and the NMSU Office of Sustainability, along with the energy and inspiration of many organizations and caring residents.

Partnering with the city, county, and other volunteers we held our first Earth Day Fair at the downtown plaza



Earth Day 2017 was at the Plaza de Las Cruces for the first time; above is the site plan designed and drawn by our Sustainability Manager

"We have a single mission to protect and hand on the planet to the next generation."

- Francois Hollande
 President of France, at COP21



March for Science joined the Earth Day Fair with 250+ attendees



Advertising the Earth Day Fair with a big sign on campus

Go Aggies!

Go Green!



Southwest Environmental Center gala—joni drew the site plan for the annual fundraising gala



Sustainability Manager “talks green” at the annual New Faculty Orientation

The Sustainability Manager volunteers time for outreach to many different organizations in the area. Here are a few 2017 highlights:

- Critiqued two **DACC architecture class projects** during both semesters; critiqued environmental students projects for **Asombro Institute**; taught local **Girl Scout troop** about waste reduction and recycling
- Evaluated the Las Cruces Green Chamber of Commerce “**Green Business Award**”
- Volunteered on the **Bicycle Friendly Community Task Force** with the City of Las Cruces and local bicycle enthusiasts
- Volunteered on **Integrated Pest Management** committee with Burrell College of Osteopathic Medicine to lower use of pesticides in the community
- Co-chaired **Earth Day Fair** at the Plaza de Las Cruces; this was the first time this event was planned with city, county, student, and community volunteers
- Spoke to many NMSU classes and groups (Engineering, Ag Extension, English, Pre-architecture, Communication Studies, and others) about **ways to be a Green Aggie**
- Co-chaired a proposed “**Regional Sustainability Council**” that will bring together environmentally-minded groups from Las Cruces, El Paso, and Juarez
- Joined the **RaMP Up “Recycle More Partnership”** committee to discuss recycling in the city, county, and on campus; also discussed was “China’s Green Wall”



From Paul Hawken's "Drawdown" we learn that educating girls is the sixth most important way to fight climate change.

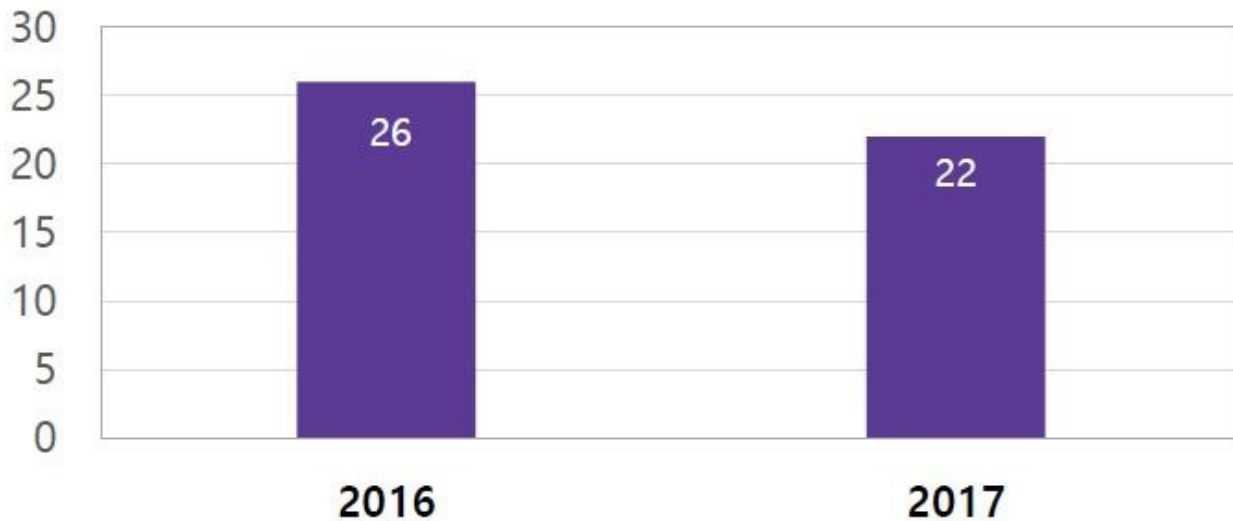


We met a sustainably-minded student, Diana O'Brien, at a tabling event



Dr. newcomer teaching Green Construction engineering class taught by professor Kenny Stevens

Guest Lectures and Classes Taught by Sustainability Manager 2016-2017





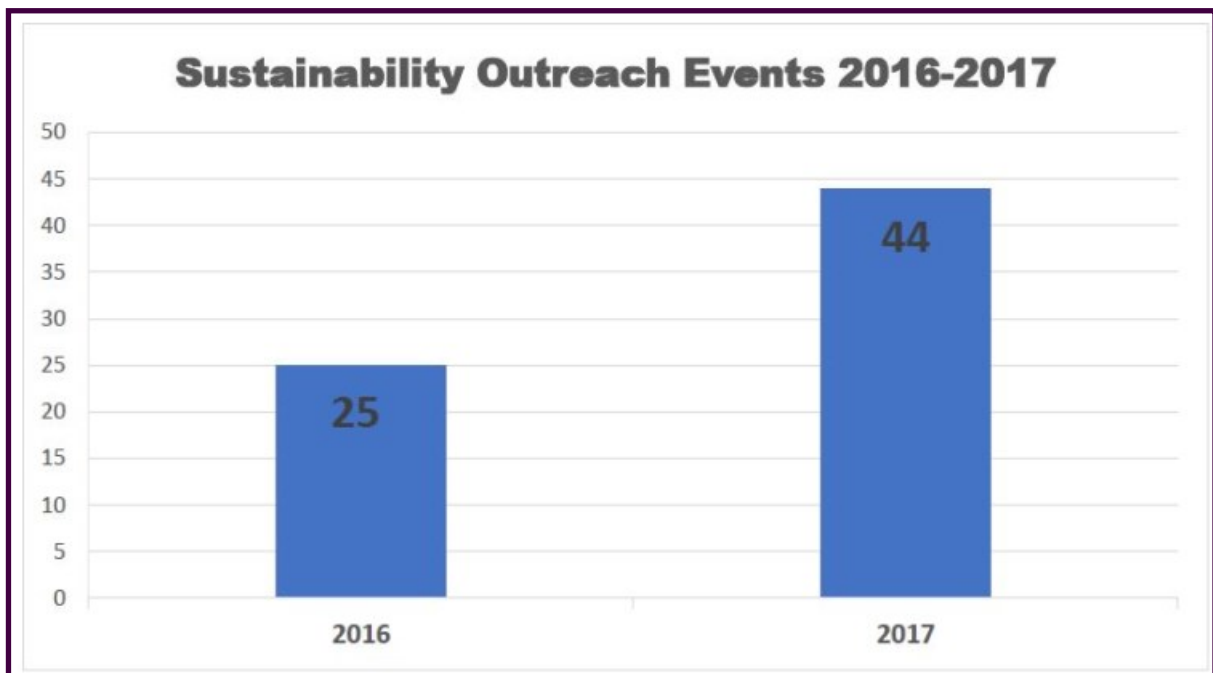
RampUP Recycling volunteers talking about China's Green Wall



Pat Desimio and Lea Wise-Surguy Desimio presenting at the first MESA Meal \$250,000 agricultural research grant



Integrated Pest Management community outreach with Burrell College of Osteopathic Medicine



Go Aggies!

Go Green!



Sustainability Survey

Shape the Future of Sustainability at NMSU!



Students, faculty, and staff...
we want your opinion!!

Take the survey at:
sustainability.nmsu.edu

Survey is open Apr. 17 – Apr. 28

Sponsored by the Office of Sustainability and the Environmental Education Center

We hired a consultant to conduct a **sustainability survey** to see what people at NMSU feel is important for the Office of Sustainability to focus on. Students, faculty and staff were all invited to participate in the survey. Nine lucky people got a gift card to Barnes & Noble as a thank you for taking the survey and helping to guide our future. The following are the top three results and a few comments.

Top Three Environmental Issues from the Survey

1. Energy conservation
2. Waste reduction
3. Water conservation



“Renovations and upgrades; lights that shut off automatically”

“Energy Contract, EEC and LEED certified buildings”

“EH&S does a GREAT job collecting, consolidating and making excess chemicals available to other researchers”

Go Aggies!

Go Green!

Join the fun, volunteer, and learn about sustainability at NMSU!



Council Leadership Team

Co-chairs: joni newcomer and Jalal Rastegary
Operations: Heidi Frohnapfel
Education: Dave Dubois and Luis Rios
Outreach and Engagement: Vacant
Education and Programs: joni newcomer

The Council Leadership Team consists of volunteer members. **We are always looking for people to join us and help make a difference for the planet.** To volunteer please contact joni newcomer, Sustainability Mgr. at newcomer@nmsu.edu

Our meetings are every first Tuesday of the month from 8:30 - 9:30 a.m. in Milton Hall Room 85.



NMSU Utilities Director, Pat Chavez, gives Council members a tour of the Satellite Chiller Plant

“You cannot get through a single day without having an impact on the world around you. What you do makes a difference, and you have to decide what kind of difference you want to make.”

—Jane Goodall



Dr. Rolando Flores, Dean of the College of Agriculture Environmental and Consumer Sciences, enthralls us with his knowledge of waste reduction in cheese production



Raquel Garzon, Extension Specialist, speaking about the “Carbon Footprint of Eating”



Go Aggies!

Go Green!



2017 in Pictures



Hort Forum students selling some of their "home-grown" plants



Art in Public Places at the Chihuahuan Desert Garden with solar charging stations under the shade structure



Anthony Rendon introducing Aggie Innovation Space "Sustainability Design Challenge"

"The first rule of sustainability is to align with natural forces, or at least not try to defy them."
- Paul Hawken



The sustainability manager volunteered to teach a local girl scout troop about waste reduction



Dr. Carruthers showing off his new reusable water bottle!

Go Aggies!

Go Green!



Special thanks to the following people:

Carol Campbell
Olga Holguin
Suzanne Montes
Heather Watenpaugh

Individuals

Mark Allen	
Pat DeSimio	
Dave Dubois	
Heidi Frohnappfel	
Dael Goodman	
Joyce Newcomer Gosnell	
Befekadu Habteyes	
Carrie Hamblen	
Irene Holguin	Suzanne Michaels
Patrick Kenney	Eric Morgan
Jack Kirby	Anthony Rendon
Lisa LaRocque	Loui Reyes
Michelle Lebsock	Darío Silva
Eric Magrane	Moxie Stroud
Jack McCoy	April Ulery

Thanks to the following organizations:

OASIS (Organization of Aggie Students Inspiring Sustainability)
ESSO (Environmental Science Student Organization)
Horticulture Forum, Plant and Env. Sciences student club
The Central and Satellite Utility Plant operators
Sustainability Council volunteers

To those of you doing work behind the scenes, I am deeply grateful for your help and your love and care of Mother Earth.



“The good thing about science is that it’s true whether or not you believe in it.”

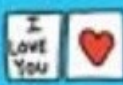
-Neil DeGrasse Tyson

10 Ways YOU Can Help the EARTH

1.  Turn off the lights


6.  Plant a tree

2.  RECYCLE!

7.  Use both sides of the paper

3.  Save leftovers

8.  Save water

4.  Be nice to the worms

9.  Clean up trash

5.  Share a book

10.  Put underwear in the freezer when it's hot



For more information about the NMSU Office of Sustainability and Environmental Education Center please call 575.646.7563 or visit Guthrie Hall, Ste. 109H

sustain@nmsu.edu
www.sustainability.nmsu.edu
www.facebook.com/NMSUSustainability