



live
CARDINAL **GREEN**



**STUDENT
SUSTAINABLE
LIVING
GUIDE**

If we are to leave our children a better world, we must take steps now to create a sustainable environment. So it is critical that we model sustainable citizenship on our own campus.

Persis Drell
Provost, Stanford University

Welcome to Stanford!
I'll be your guide.
Follow me to learn how
to live Cardinal Green.



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Stanford is incorporating sustainability practices into every aspect of campus life.

LETTER FROM **SHIRLEY J. EVERETT AND FAHMIDA AHMED**

Welcome to Stanford, where a sustainable campus reflects the university's core values, values first articulated by Jane and Leland Stanford more than a century ago. On behalf of Residential and Dining Enterprises (R&DE) and the campus Office of Sustainability, we invite you to explore how to be Cardinal Green in your daily life as a Stanford student.

We firmly believe that sustainability means responsibly meeting the needs of today so as to not compromise the ability to meet the needs of future generations. Stanford incorporates sustainability practices into every aspect of campus life. In addition to having dramatically reduced its carbon footprint, the campus is working toward becoming 80% carbon neutral by 2025 and achieving zero waste by 2030, "defined as 90% diversion from the landfill or higher." As we continue to seek innovative and lasting solutions, we need you, the most important campus stakeholder, to be an active part of that journey.

This guide provides resources and simple tips for leading an eco-friendly lifestyle on campus. Whether in your new room, at the dining hall, or out and around campus, there are multitudes of opportunities to take simple actions that can add up to a significant reduction in our collective footprint. Your choices and actions do matter. With your enthusiasm, support, and creativity, we look forward to progressing toward a shared vision — a truly sustainable Stanford University, your home for the next four momentous years.

Sustainably Yours,

Shirley J. Everett, Ed.D.

*Senior Associate Vice Provost
Residential & Dining Enterprises*

Fahmida Ahmed

*Director
Sustainability and SEM Business Services*



ACTION GUIDE

In Your Room

- ☐ Manage your plug load with energy efficient lights, smart power strips and using shared printers and appliances instead of having your own.
- ☐ Install “Big Fix” on your computer.
- ☐ Use natural light during the day.
- ☐ Know how the heating system works in your room.
- ☐ Have sustainable parties.
- ☐ Use your multi-recycler in your room to sort your waste before you get to the waste enclosure.

CHALLENGE

Be plug load free by not having a personal refrigerator, TV, space heater or other major appliance or electronics in your room.

Laundry & Bathroom

- ☐ Only wash full loads of laundry to save time, energy, and water, and use only ¼ cup of detergent.
- ☐ Wash your clothes in cold water instead of hot water.
- ☐ Air-dry or combine loads in the dryer, and don't overdry.
- ☐ Report leaks and maintenance problems.
- ☐ Use your own hand towel in the bathroom.
- ☐ Take shorter showers and don't let the sink run while you brush or shave.

CHALLENGE

Time your showers to less than five minutes.

Managing Your Waste

- ☐ Minimize your “stuff” on campus.
- ☐ Sort your waste for recycling and composting.
- ☐ Share, donate, or sell what you no longer need.
- ☐ When attending events on campus or getting food to go, try to bring your own mug and utensils.

CHALLENGE

*Try not having a trash (landfill) bin in your room. Set yourself up with a recycling and composting bin system that follows **Stanford's Zero Waste Guidelines** on page 8.*

Where You Eat

- ☐ Vote with your fork! Choose seasonal, local, organic, antibiotic-free, and unprocessed food whenever possible.
- ☐ Eat lower on the food chain...healthier for you and the planet!
- ☐ Follow R&DE Stanford Dining's motto of “Love Food, Hate Waste” by only taking what you'll eat and composting the rest.
- ☐ Grow your food in an on-campus organic garden or the educational farm.

CHALLENGE

For the academic year, choose to eat no meat on Mondays.

On the Street

- ☐ Ride your bike or walk.
- ☐ Take public transit, such as buses or trains.
- ☐ Share a ride when traveling locally and beyond.
- ☐ Get a car or ride when you need it through Stanford's car share, carpool and rent-a-car programs.
- ☐ Be rewarded for a sustainable commute and for wearing a bike helmet for every ride, even short trips.

CHALLENGE

Don't pay to bring your own car to campus. You'll find you won't need it!

In the Classroom

- ☐ Consider taking one of the many great sustainability related courses on campus.
- ☐ Check out the available academic majors on campus that emphasize sustainability.
- ☐ Take advantage of Stanford's passionate faculty by getting involved with meaningful research opportunities on campus.

Follow me to learn how to live more sustainably, and earn rewards for completing these actions and others customized to YOUR lifestyle through



Sign in now to begin at <http://sustainable.stanford.edu/my-cardinal-green>

CHALLENGE

Take one of the many introductory courses offered on sustainability and learn how you can apply its principles to your academic major and lifestyle.

In White Plaza

- ☐ Join the Campus Sustainability Community through the My Cardinal Green portal.
- ☐ Get real-world working experience by interning with sustainability professional staff on campus.
- ☐ Get involved with a sustainability student group and become a student leader.

CHALLENGE

Get involved in one of over 10 sustainability-related student groups on campus!

On Stanford's Campus

- ☐ Increase your Stanford Campus Sustainability IQ:
 - Where does Stanford's water come from?
 - What is SESI?
 - What are two federally protected species on Stanford's land?



CHALLENGE

Visit all of the sustainable sites around the Stanford campus on pages 20-21.

in your **ROOM**



Your home, whether a dorm room, apartment, or house, is the easiest place to begin making a positive impact. Make it convenient to lead a sustainable lifestyle by setting your room up for success.

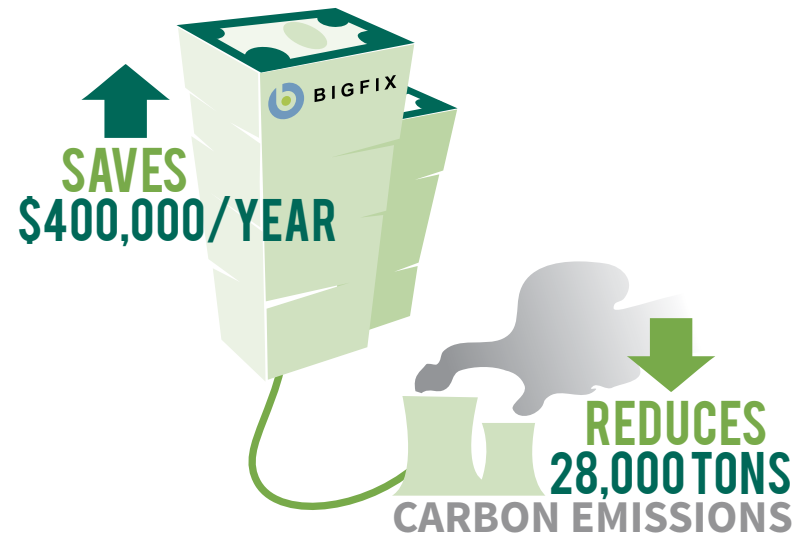
CHALLENGE

Be plug load free by not having a personal refrigerator, TV, space heater, or other major appliance or electronics in your room.

FACT:

Stanford's "Big Fix" is a software tool that manages the power usage of your computer. Installing it on 24,000 campus computers will save an estimated \$400,000 per year, as well as reduce campus carbon emissions by 28,000 tons.

Install "Big Fix" at
<https://uit.stanford.edu/software/bigfix>



Manage Your Plug Load.

- At least 22% of campus electricity use is associated with things you plug in. Try to use items available in common areas, such as TVs, fridges, and printers, before purchasing individual ones for your room. If after you arrive you find you need an appliance, consider renting one so that it can easily have a new life after you leave, or if you must buy, purchase one with an ENERGY STAR logo and share it with your roommates.
- Buy a smart power strip for the electronics you do plug in to manage them more efficiently.
- Use natural light during the day. If you find you need extra lighting in your room, make sure to use LED bulbs. They last 20 times longer and save 90% of the energy compared to incandescent.

Did you know the typical red plastic party cup is not recyclable and takes



Have sustainable parties.

- If you are serving snacks, try finger food to avoid the need for plates. Minimize use of disposables with reusable, recyclable, or compostable serveware, available for purchase in the Green Store. The typical red plastic party cup is not recyclable and takes 450 years to decompose! Make sure to have recycling, compost and landfill bins available for guests to use – and use good signage so they know what goes in which bin. Learn more about green events on campus at sustainable.stanford.edu/green-events

Sort your waste.

- Use the multi-recyclers in your room to sort your landfill, paper, and plastics, metals and glass separately.



Know how the heating system works in your room.

- Heating and cooling account for more than half of the energy usage in the average U.S. home, so turn off your thermostat when you leave and consider turning it down when you're there. If you are having trouble controlling your heat, contact your Housing Building Manager.
- Clothing is the easiest way to moderate your thermal comfort. Dress appropriately for the season.
- If your room has a thermostat, set it to 68° during cold months.
- Close doors and windows when systems are running, regardless of whether you control them. If you are uncomfortable, report the need for repairs instead of opening doors or windows, or purchasing a portable electric space heater.
- During winter months, open window coverings during the day, and close them at night to absorb and retain the natural heat from the sun. On warmer days, keep them closed to keep your room cooler during the day.

TO LEARN MORE

Visit Stanford's R&DE Student Housing Sustainable Living site studenthousing.stanford.edu/sustainableliving

in the **LAUNDRY ROOM** and **BATHROOM**



Less than 0.01% of the Earth's water is available for human use. Changing just a few little things in your daily routine can make a big difference in how we use this invaluable resource during California's drought.

CHALLENGE

Time your showers to less than five minutes.

FACT:

The ENERGY STAR front-loading washers used throughout R&DE Student Housing are among the most energy efficient machines available on the market, saving up to 50% or more on energy, water, and sewer costs.



You can save up to

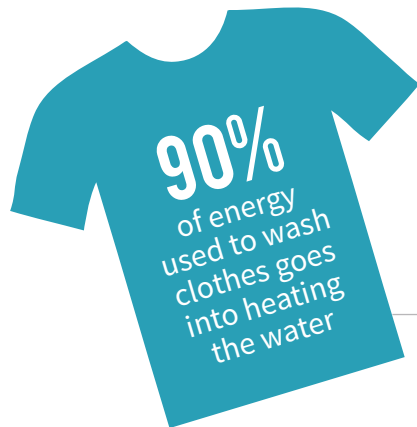
2 GALLONS OF WATER

with
EACH MINUTE
you take off
your shower!

LAUNDRY

Only wash full loads of laundry to save time, energy, and water, and use only ¼ cup of detergent.

- Laundry habits have a huge potential for energy and water savings, especially considering the over 800 washers and dryers available across R&DE Student Housing.
- Our High Efficiency (HE) front-loading washers only require ¼ cup of HE detergents for a full load – if you use more, your clothing may not come out as clean.



Wash your clothes in cold water instead of hot water – it works just as well and will help your clothes last longer.

Air-dry or combine loads in the dryer, and don't overdry.

- Running the dryer for an extra 15 minutes for a larger load still uses less energy and time than running a separate load. Make sure not to overdry clothing or air-dry clothes instead, to make them last longer and save 100% of the energy.

BATHROOM



A small faucet drip can easily waste
20 GALLONS
of water a day.

If you see a leaky faucet, toilet, shower, landscape sprinklers, or any appliance or fixture that isn't functioning, let R&DE Student Housing know ASAP by filing a Fix-It request at fixit.stanford.edu or by contacting your Housing Front Desk.

Use your own hand towel in the bathroom.

- If all Americans used one less paper towel a day, over 570 pounds of paper would be spared over the course of the year.

Take shorter showers and don't let the sink run while you brush or shave.

- You can save up to two gallons of water with each minute you take off your shower.
- Turn off the water in the shower while shampooing or shaving.

TO LEARN MORE

Visit Stanford's R&DE Student Housing Sustainable Living Site
studenthousing.stanford.edu/sustainableliving

managing your **WASTE**

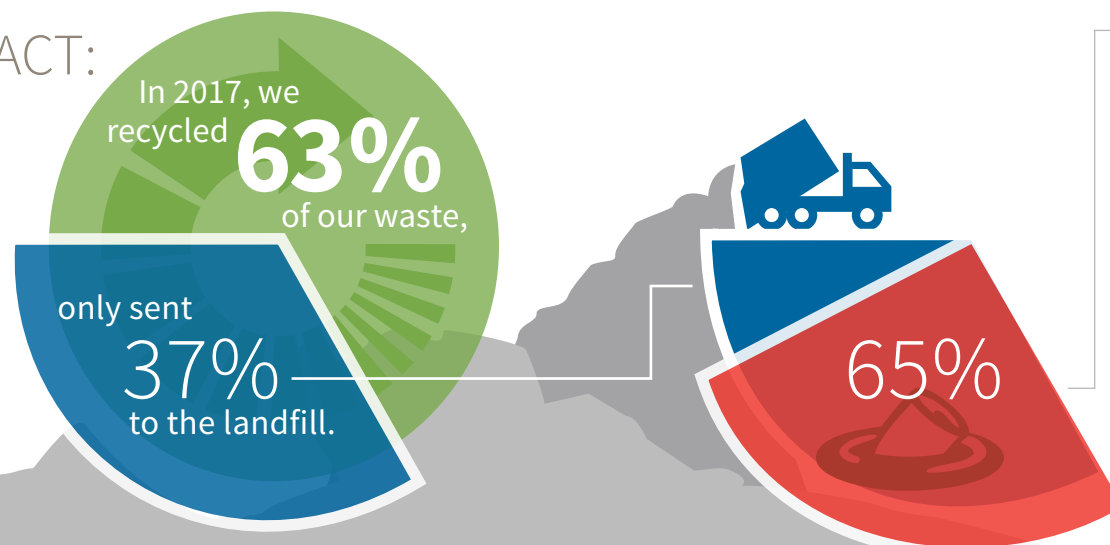


Stanford makes it easy to recycle or donate everything that you no longer need. But the idea of zero waste starts with reducing your own consumption.

CHALLENGE

Try not having a trash (landfill) bin in your room. Set yourself up with a recycling and composting bin system that follows **Stanford's Zero Waste Guidelines** above.

FACT:



Of the 37% of waste thrown in the trash, 65% could have been reused, recycled or composted. Be sure to put your stuff in the right bin!

Minimize your “stuff” on campus.

- Producing new products is energy, water, and resource intensive. When moving in each year on campus, think carefully about what you need to bring.
- When you do buy something, buy items with minimal packaging, and packaging that is recyclable or compostable. Set yourself up with a reusable water bottle, coffee cup and utensils so that you don't have to use disposables on campus.
- Buy products with sustainable certifications and environmentally friendly attributes, that are durable enough to have a second life after the academic year, and that can be recycled after their useful life.

Sort your waste for recycling and composting.

- Check out the zero waste guidelines to see how to sort your plastics, metal, glass, paper and cardboard into the appropriate bins. lbre.stanford.edu/pssistanford-recycling/guides-labels-and-signage
- Stanford's composting program accepts ALL food, including meat, dairy, and plant-based products, as well as soiled paper and plastics labeled “compostable.” Compost bins are located in all dining halls and nearly all waste corrals in R&DE Student Housing.

com•posting
/'kämpōst/

A process which turns organic waste back into rich, biodiverse soil which is then reused for fertilizing and conditioning land.

Share, donate, or sell what you no longer need.

- Stanford students discard tons of valuable goods at the end of each academic year. Set aside your clothes, books, kitchen goods, and miscellaneous room items to be donated through the R&DE Student Housing Give & Go program that provides collection barrels near every residence. Throughout the year you can also donate at the Palo Alto Goodwill store, and the Stanford Recycling Center.
- Sell your unwanted items on SUpost.com, or Craigslist.
- Small e-waste, such as printer cartridges or dead cell phones, can be dropped off at most R&DE Student Housing front desks for recycling. Larger items, such as computers, TVs, and printers, can be brought to PSSI (Peninsula Sanitary) on campus at 339 Bonair for recycling.
- Over 2,000 students participated in R&DE Student Housing and Sustainable Stanford's Give & Go campaign, which has diverted over 50 tons of clothes, books, appliances, bikes, and furniture from the landfill to those in need during June move out for the last three years.



TO LEARN MORE

Visit Stanford's Waste Reduction & Recycling Program
<https://lbre.stanford.edu/pssistanford-recycling>

where you **EAT**



Whether you are on a meal plan or cooking for yourself, being aware of the impact of your food choices is an important part of living more sustainably.

CHALLENGE

For the academic year, choose to eat no meat on Mondays.

FACTS:

31%

of food served in R&DE comes from local, organic, fair, humane, and sustainable sources.

27,250 lbs

of wild Alaskan salmon get purchased each year, direct from Taku River Reds, a small family-owned business in Alaska.

Apples are #1 on the Dirty Dozen list of produce with the most pesticides, but

100%

of Stanford Dining's apples are *organic* and *pesticide-free*



Vote with your fork! Choose seasonal, local, organic, and unprocessed food whenever possible.

- If you are on a meal plan, choose the sustainable options in the dining hall that R&DE Stanford Dining has committed to buying, such as wild Alaskan salmon, grass-fed beef, antibiotic-free chicken, cage-free eggs, organic local milk, organic apples, organic local salad greens, and Fair Trade coffee.
- If you are buying your own food, choose similar sustainable options. The Sunday farmers' market on California Ave. (within biking distance from campus) is a great place to get fresh local fruit and veggies.

Eat lower on the food chain...healthier for you and the planet!

- Approximately 14% of our personal contribution to climate change is attributed to food and beverage. Prioritizing your plate with delicious vegetarian and vegan Performance Dining options is the most effective way to lower the carbon footprint of your food choices.
- Love meat too much? Don't worry, you can still have an impact. Choose chicken over beef! The production of beef uses more than 13 times as much energy and almost 30 times as much water than are needed to generate an equivalent amount of chicken.
- Follow R&DE Stanford Dining's motto of "Love Food, Hate Waste" by only taking what you'll eat and composting the rest.
- Go trayless. Studies have found that trayless dining reduces food waste and water use. Take only what you can eat; you can always come back for more. If you do take more than you can finish, put it in the compost bin.

Reduce your impact when visiting an R&DE Stanford Hospitality & Auxiliaries restaurant or concession stand.

- R&DE Stanford Hospitality & Auxiliaries provides compostable and reusable dishware in all its fast casual restaurants and concession stands. Please compost in the correct bins. You can help by placing compostable materials in the bins provided. For a list of restaurants: hospitality.stanford.edu

Bring your own mug to a Stanford Hospitality restaurant on campus and get a discount!



Grow your food.

- Learn to grow food from seed to plate in organic gardens located at all major dining halls and several student residences. You can also grow produce on your own with a barrel or pot and access to sun, water and soil.
- Participate in R&DE Stanford Dining's Farm to Fork Cooking Series at The Teaching Kitchen @ Stanford.
- Visit the Stanford Community Farm on the west side of campus and consider reserving a plot to grow your own food at the BeWell Community Gardens: community-gardens.stanford.edu.
- Volunteer to garden at any one of Stanford Dining Hall's edible gardens or at many of the Row Houses, such as Columbae and Synergy.

TO LEARN MORE

Visit Stanford's R&DE Dining Sustainable Food Program
dining.stanford.edu/sustainability

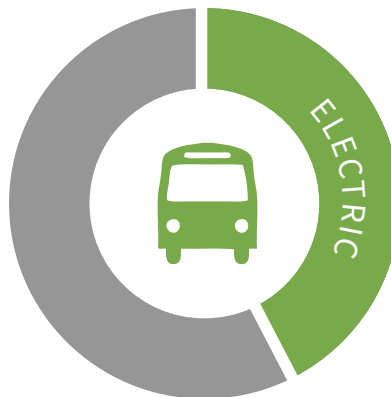
on the **STREET**



The Stanford campus and the Bay Area are home to many sustainable transportation options, and our very own Parking & Transportation Services provides some amazing opportunities to get around while minimizing your costs and environmental footprint.

CHALLENGE

Don't pay to bring your own car to campus. You'll find you won't need it!



FACT:

Approximately 40% of Stanford's 1,084 fleet vehicles are electric, and the number of hybrid vehicles is increasing each year. The fleet also includes one experimental solar vehicle. Stanford's 78-bus Marguerite shuttle fleet includes 41 battery-electric buses and 5 diesel-electric hybrid buses.

Ride your bike or walk!

- Biking is the fastest and most common method of getting around campus. Since 96% of undergraduates live on campus, a trusty bike might be all you need to own during your four years on the Farm. Even 37% of students living off-campus commute by bike.
- Look out for Stanford's bike repair stands to keep your bike in optimum condition. Also, the Campus Bike Shop at Tresidder is a full-service shop that sells bicycles, locks, accessories, discounted bike helmets and tools, and offers tune-ups and rentals.
- Bikes can be taken on regional buses, Caltrain, and almost all Marguerite shuttles.

Make use of public transportation.

- The Marguerite is FREE to everyone. It provides service to locations throughout campus and to off-campus destinations, such as Stanford Shopping Center, San Antonio Shopping Center (Target, Safeway, Trader Joe's, etc.), and the Caltrain station.
- Caltrain is the most popular way for students to get to San Francisco. The Palo Alto Caltrain station is near the edge of campus off of Palm Drive. To learn more about Caltrain, BART, SamTrans, VTA, and other systems, visit transportation.stanford.edu/transit or just go to google.com/transit to have your Bay Area trip easily planned for you!

Travel home smarter and share the ride.

- As you make your way to and from campus and home on breaks, consider getting carbon offsets if you are flying. If you drive, share the ride and adopt fuel-efficient driving practices.

Get a car or ride when you need it.

- Car share: Zipcar is a car sharing service with over 60 cars on campus. Zipcars are available 24/7 and can be reserved online. Stanford faculty, staff, and students (18 and older) receive discounted Zipcar membership rates, which include the cost of gas and insurance. transportation.stanford.edu/zipcar
- Carpool: Share the ride with Stanford affiliates with Stanford's free ride-matching services. Register with Zimride zimride.stanford.edu for one-time trips, such as the store, airport, or movies, or sign up with Scoop <https://transportation.stanford.edu/rideshare/find-a-rideshare/sign-ridematching-services/ridematching-scoop> to share the ride on your commute to and from Stanford.
- Rent a car: The on-campus location of Enterprise Rent-A-Car offers discounted rates for Stanford affiliates and \$10 weeknight rentals for residents (18 and older) who register and reserve in advance.

Be rewarded.

- If you live off campus and do not purchase a long-term Stanford parking permit, you may be eligible to join the Stanford Commute Club and receive hundreds of dollars a year in Clean Air Cash!

To see how much you could save on your commute (financially and environmentally), check out P&TS's **Commute Cost & Carbon Emissions Calculator**.
transportation.stanford.edu/cost



TO LEARN MORE

Visit Stanford's Parking & Transportation Services
transportation.stanford.edu/discounts

in the **CLASSROOM**



“Stanford students should learn about the world around them and gain the knowledge necessary today to help build tomorrow’s solutions for a healthier planet and communities that thrive.”

As our generation makes the shift towards more sustainable practices, awareness of the interaction between our environment, health, society, and the economy is becoming relevant in every career field. From large systems to daily behavior, and from global to local issues, Stanford academics address sustainability on many scales through coursework and research. No matter what you are interested in, or what your academic major is, a little perspective on sustainability will be sure to come in handy!

CHALLENGE

Take one of the many introductory courses offered on sustainability and learn how you can apply its principles to your academic major and lifestyle.



FACT:

Stanford has over 1000 courses addressing some component of sustainability, which is embedded across the curriculum from medicine to mathematics, economics to engineering and law to life sciences.

Julie Kennedy
Advisor, Earth Systems Program
Senior Fellow, Stanford Woods Institute

Consider taking one of the many great sustainability related courses on campus.

While there are many options, some recommended introductory courses for all majors include:

- **EARTHSYS 10**
Introduction to Earth Systems
- **CEE 176A**
Energy Efficient Buildings
- **EARTH SYSTEMS 131/EARTH 131**
Pathways in Sustainability Careers
- **ENGR 90**
Environmental Science and Technology
- **HUMBIO 166**
Food and Society: Exploring Eating Behaviors in Social, Environmental, and Policy Context
- **BIO/EARTHSYS 105A/B**
Ecology and Natural History of Jasper Ridge Biological Preserve
- **EARTHSYS 180B**
Principles and Practices of Sustainable Agriculture
- **ENERGY 102**
Renewable Energy Sources and Greener Energy Processes
- **GES 7A**
An Introduction to Wilderness Skills
- **THINK 40**
Meeting the Global Sustainability Challenge

Check out the available academic majors on campus and research institutes that emphasize sustainability.

Earth Systems
earthsystems.stanford.edu

Civil and Environmental Engineering
cee.stanford.edu

Energy Resources Engineering
pangea.stanford.edu/departments/ere

Management Science and Engineering: Energy and Environment Track
msande.stanford.edu

Anthropology: Evolution, Ecology and Environment
stanford.edu/dept/anthropology/EEsites

Stanford Woods Institute for the Environment
woods.stanford.edu

Precourt Institute for Energy
energy.stanford.edu



Take advantage of Stanford's passionate faculty by getting involved with meaningful research opportunities on campus.

TO LEARN MORE

Visit Stanford Woods Institute for the Environment and Earth Systems Program
woods.stanford.edu/get-involved/students
and earthsystems.stanford.edu

in WHITE PLAZA



Students, staff, and faculty at Stanford are passionate about sustainability. From active student groups to internships, there are countless opportunities to get involved and make real change on campus. Several departments offer training, campaigns, and incentives for students to get engaged.

CHALLENGE

Get involved in one of over 10 sustainability-related student groups on campus!



FACT:

There are over 650 student organizations, over 10 of which are sustainability-related, here at Stanford. Every fall and spring, they gather in White Plaza for the Activities Fair to recruit new members.

Join the campus sustainability community.

▪ **My Cardinal Green**

Collectively our individual behaviors make a big difference. Earn incentives by participating in My Cardinal Green, offering small actions with a big impact to help you reduce your environmental footprint: sustainable.stanford.edu/my-cardinal-green. Seasonal conservation campaigns include:

- Winter Closure - Don't forget to unplug your appliances, turn off your lights and turn down your heater before you leave for winter break. These simple actions reduce your carbon footprint and contribute to an energy curtailment program that has saved Stanford over \$4 million in energy costs since 2001.
- RecycleMania - Help Stanford beat more than 450 universities in this national competition to reduce waste and increase recycling and composting on campus every February and March.
- Water Wise - Every Drop Counts! Support Stanford's long-standing water conservation efforts by taking shorter showers and washing full loads of laundry.

Get real world working experience by interning with professional sustainability staff on campus.

▪ **Sustainable Stanford Internship Program**

This program provides a paid opportunity for students to gain hands-on experience implementing programs that influence on-campus sustainability. Internship projects range from zero waste and energy conservation to sustainability and communication. sustainablestanford.stanford.edu/internships

Get involved with one of the many student groups on campus and become a student leader.

Some of these student groups include:

Students for a Sustainable Stanford

studentsforasustainablestanford.weebly.com

Stanford Energy Cub

<https://energyclub.stanford.edu>

Stanford Student Environmental Consulting

<http://stanford.edu/group/ssecg/cgi-bin/drupal/>

Stanford Solar Decathlon

solardecathlon.stanford.edu

Stanford Food Project

<https://stanfordfoodproject.wordpress.com/>

Stanford Engineers for a Sustainable World

esw.stanford.edu

SPOON -The Stanford Project on Hunger

web.stanford.edu/group/spoon/about-overview.html

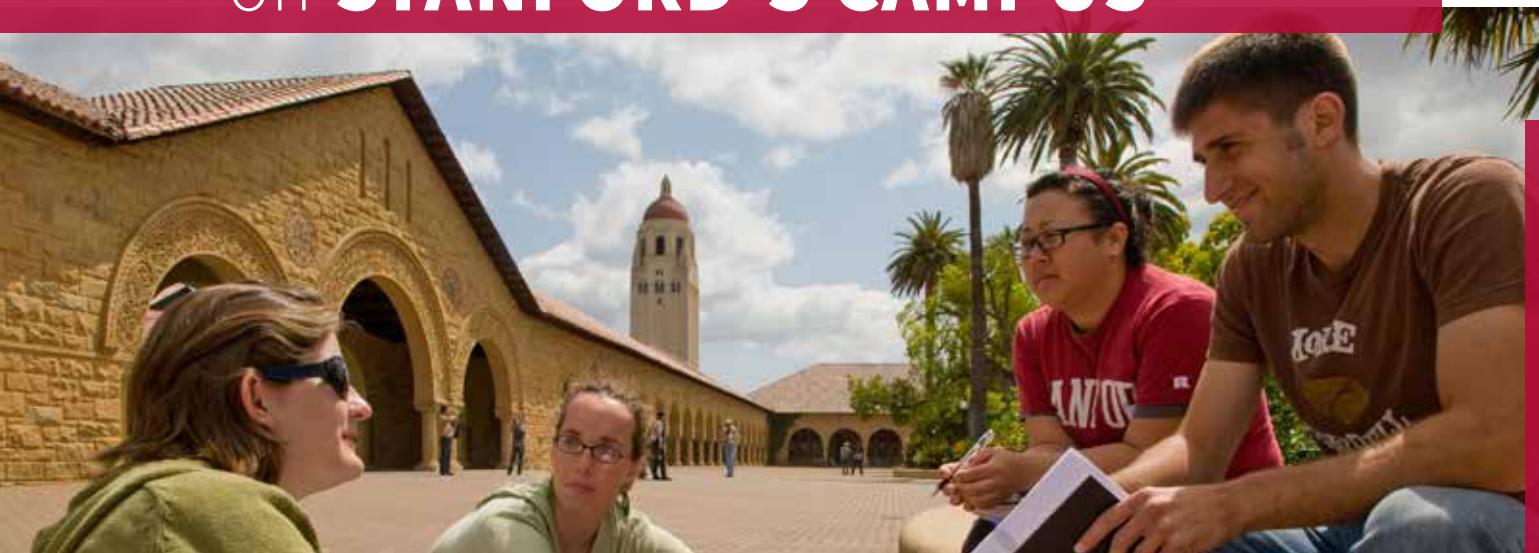
Fossil Free Stanford

www.fossilfreestanford.org

TO LEARN MORE

Visit Sustainable Stanford
sustainable.stanford.edu

on **STANFORD'S CAMPUS**



Stanford University has a longstanding record of incorporating sustainability into all levels of its operations. Increase your Stanford sustainability IQ by reading up on these cool facts about campus.

Sustainability is a core value at Stanford, embedded into every aspect of campus life. With a commitment to lead by example, Stanford strives for innovating sustainability practices and technologies, providing the ultimate “living laboratory” for students to experience and learn from: our campus.

Photo credit: Doug Plummer

CHALLENGE

Visit all of the sustainable sites around the Stanford campus on pages 20-21.



*Fahmida Ahmed
Director
Sustainability and SEM Business Services*

FACT:

Stanford placed number five in Sierra Magazine's “Cool Schools” sustainability ranking, out of more than 200 institutions evaluated in 2016. In 2013 through 2017, Stanford was named to the Princeton Review's “Green Honor Roll,” achieving the highest score possible. Stanford regularly performs well in third-party rankings and evaluations, and has recently earned a Platinum designation by the Association for the Advancement of Sustainability in Higher Education's Sustainability Tracking, Assessment, and Rating System.

Let's continue being one of the greenest schools in the nation!



increase your STANFORD SUSTAINABILITY IQ

Campus Water

- Stanford receives clean, Sierra Nevada Mountain sourced tap water. In recognition of the value of this precious resource, our water conservation, reuse, and recycling program is one of the most aggressive in the Bay Area. There is never a need to use bottled water on campus with the high quality of our tap water.
- Campus efforts have reduced our domestic water use by 48% since the year 2000, through a transformation of the university's energy system, water-efficient plumbing fixtures, weather-based irrigation controllers and recycling water for non-potable use, despite adding more than two million gross square feet to the building portfolio.

Campus Energy

- The Stanford Energy System Innovations (SESI) project, completed in 2015, represents a transformation of our university's energy supply from a 100 percent fossil fuel-based combined heat and power plant to grid-sourced electricity and a more efficient heat recovery system. This new system went online in April 2015 and, along with Stanford's renewable energy portfolio of 65%, reduces campus emissions to 67,000 metric tons or approximately 68% below 2015 levels, and saves 18% of campus potable water. Learn more about SESI by visiting sustainable.stanford.edu/sesi to access videos about the SESI project and innovations employed.

Campus Land

- Stanford maintains policies designed to conserve undeveloped lands and natural resources; maintaining the campus's character, heritage and quality of life. About 60% (nearly 5000 acres) of Stanford's land remains undeveloped, despite campus growth.
- Stanford land provides habitat to several federally-protected species, including the red-legged frog, the steelhead trout, the California tiger salamander, and the San Francisco garter snake.
- The 1,200-acre Jasper Ridge Biological Preserve provides fertile ground for field studies by researchers from Stanford and other universities.
- 75% of campus land is native or drought resistant plantings.

Campus Buildings

- The university replaced the energy efficiency goal of 30% beyond code with whole-building energy performance targets derived specifically for each new building coming online. In this way, each building is evaluated based on its own best possible performance.
- Building retrofits have saved over \$4 million a year in energy costs, 9.5 million kilowatt-hours of electricity, and 5 million ton-hours of chilled water.

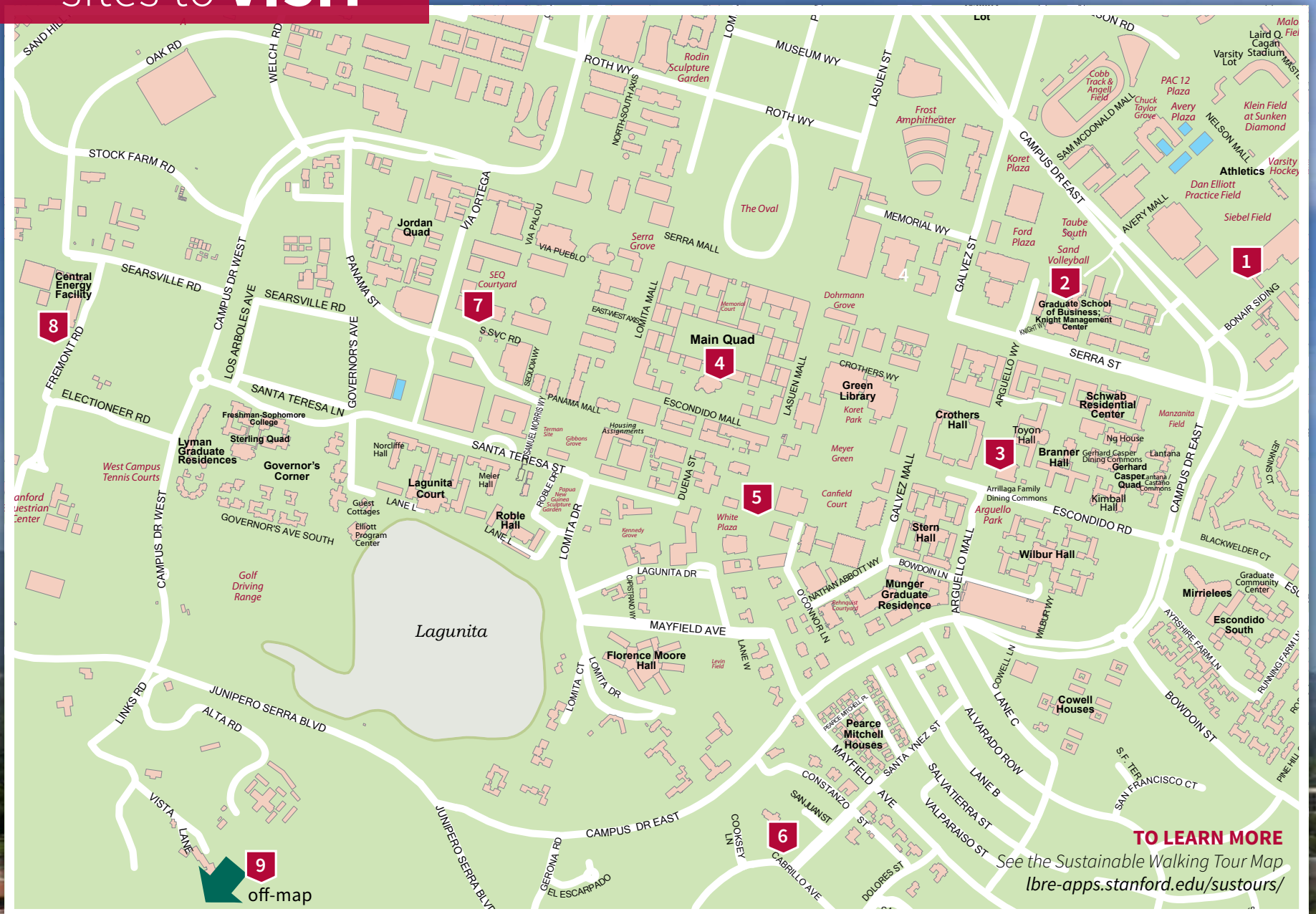


TO LEARN MORE

Visit Sustainable Stanford
sustainable.stanford.edu

Photo credit: Linda A. Cicero / Stanford News Service

sites to VISIT



TO LEARN MORE

See the Sustainable Walking Tour Map
lbre-apps.stanford.edu/sustours/

Photo credit: Linda A. Cicero / Stanford News Service

1

PSSI | Recycling Center

See how Stanford handles recyclables and waste on campus by taking a tour of the Stanford Recycling Center. Tours and waste sorting activities can be arranged through PSSI (Peninsula Sanitary Service, Inc.).

2

Knight Management Center | Green Buildings

With a total of 8 buildings, the Knight Management Center is one of the Stanford building complexes to achieve a LEED-NC Platinum rating, utilizing rooftop photovoltaic panels, night flushing, and chilled beams for efficient cooling.

3

Arrillaga Family Dining Commons | Sustainable Dining

R&DE Stanford Dining is committed to purchasing local, organic, seasonal, and fair products while providing wholesome and delicious meals, and maintains organic gardens outside of every major dining hall to produce high quality produce.

4

Main Quad | Campus Master Plan

Frederick Law Olmsted, the landscape architect and planner of the University in the 1890s, and Stanford's Landscape Design Guidelines, now 20 years old, both encouraged climate responsive designs, native plant materials, and water conservation.

5

White Plaza | Bike Safety

On Fridays from 11 a.m. to 2 p.m., stop in White Plaza to register your bike and get a free bike safety checkup from Stanford Parking and Transportation Services.

6

Synergy | Student Composting and Gardening

Visit the Synergy house, an R&DE Student Housing student-run coop with beautiful edible garden beds, fruit trees, and a rain water harvesting tank.



7

Y2E2 Building | Environmental Research

Y2E2's innovative design delivers substantial efficiency gains over similar standard buildings, using 42% less energy and 90% less potable water. It was designed to conserve natural resources and offer a unique learning environment.

8

Central Energy Facility | Campus Energy Systems

The Stanford campus produces energy on-site. Sign up to tour the plant at: sustainable.stanford.edu/sesi.

9

The Dish | Natural Preserve

Take a break and relax in one of the many beautiful spots on campus that Stanford has pledged to keep natural. The Dish is in the Stanford foothills, used for academic research, ecological conservation, and restorations. Great for a jog or hike, too!

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