

Green Building Accomplishments and Initiatives

CalPERS has long been a leader in sustainability and is committed to preserving our state's natural resources. We have taken significant steps to put into action the Governor's Executive Orders, and we support the principle of measuring energy usage reduction efforts. We are committed to aligning business practices with sustainable principles that result in long-term benefits to the environment. We operate in an environmentally responsible manner by reducing and recycling waste, purchasing environmentally preferred products, and conducting green building operations to help reduce the negative environmental impact.

33% 
reduction

in energy use per square foot, compared to 2003 baseline

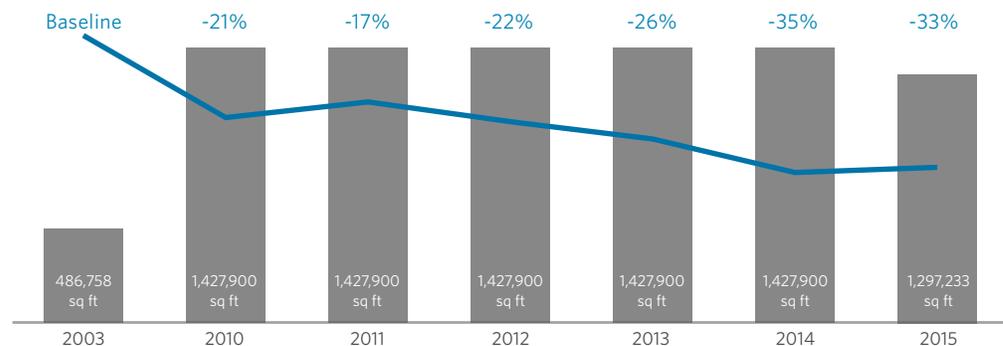
Energy Conservation

While the CalPERS Lincoln Plaza building square footage has increased by 62 percent since 2003, the total energy use per square foot has decreased by 33 percent. The electric energy consumed is 100 percent renewable and generated within California.

	2003 (baseline)	2010	2011	2012	2013	2014	2015
Electric (kWh)	13,078,768	26,466,790	26,877,874	26,047,306	24,690,440	22,362,402	21,067,313
Gas (Therms)	3,255	138,616	178,852	138,015	130,007	96,131	78,147
Total energy (kBtu)	44,950,256	104,166,287	109,592,506	102,674,908	97,244,481	85,913,616	79,696,428
CalPERS buildings square footage	486,758	1,427,900	1,427,900	1,427,900	1,427,900	1,427,900	1,297,233*
Energy use per square foot	92.35	72.95	76.75	71.91	68.10	60.17	61.44
Reduction in energy use	Baseline	-21.00%	-16.89%	-22.13%	-26.25%	-34.85%	-33.48%

*Square footage reduced due to one CalPERS building being unoccupied.

Reduction in Energy Use per Square Foot, Compared to 2003 Baseline:





32% reduction

in water use compared to 2010

Water Conservation

In response to the Governor's 2014 emergency water reduction declaration, CalPERS implemented several water-saving measures. These measures resulted in a 32 percent reduction in 2015 -- more than 8 million gallons of water -- compared to 2010 water usage.

The significant water reduction during the period of 2010-15 was achieved by installing low-flow plumbing fixtures and eliminating non-essential washing. In addition, after-hours air conditioning requests, turf watering, and operation of all fountains were discontinued.

Approximately 40,000 square feet of turf was removed in the areas of the third floor terrace of Lincoln Plaza North, and along R Street behind Lincoln Plaza East/West. In addition, landscape irrigation was adjusted to be consistent with city regulations and watering times were divided into two shorter periods. Bark was added to outside planters to lock moisture into the soil and polymers were added to the interior planters to retain water. To further increase savings, CalPERS converted irrigation from conventional spray to drip nozzles.

The cooling tower water recapture project was completed in the fall of 2015, and is capable of recapturing an average of 1.76 million gallons of water annually. This innovative system captures accumulated water from the cooling towers in the parking garage holding tanks, which would normally go to the combined sewer/storm drain system. The reclaimed water from the holding tanks can be used for landscape irrigation, pressure washing, and other purposes.

Recognition

- **LEED®** — Leadership in Energy and Environmental Design (LEED®) is a points-based, green building certification program. Points are awarded based on the environmental responsibility of building operations. CalPERS recertified the headquarters buildings to demonstrate that they are high-performing green buildings. Lincoln Plaza East/West rated LEED® Platinum in May 2014, Lincoln Plaza North received LEED® Gold in August 2014, and Lincoln Plaza South achieved LEED® Gold in October 2015.
- **Energy Star** — CalPERS headquarters buildings are Energy Star Certified. Buildings can become certified if they have an Energy Star score of 75 or higher. The Energy Star score of one to 100 is based on how a building's

energy consumption measures up against similar buildings nationwide. Lincoln Plaza South rated 90, Lincoln Plaza East/West scored 93, and Lincoln Plaza North received 84.

- **Data Center** — CalPERS was recognized in September 2013, for energy conservation efforts in the CalPERS Data Center’s Servers Hot Aisle Containment project. Awards received included recognition by the Business Environmental Resource Center, Certificate of Appreciation from Congresswoman Doris Matsui, Certificate of Recognition from Assemblyman Richard Pan, and Certificate of Resolution from the County of Sacramento Board of Supervisors.

Green Initiatives

- **Renewable Energy** — On January 1, 2016, CalPERS began participating in the SMUD Greenergy Program. Through the Greenergy program, CalPERS receives a mix of Green-e certified wind and solar energy from the state of California to offset 100 percent of our energy consumption for headquarters facilities. At year end, this will allow CalPERS to report that headquarters facilities had zero emissions from our SMUD-provided energy use.
- **The Climate Registry** — CalPERS has participated in the Climate Registry since 2007, then known as the California Climate Action Registry, and is committed to validate the enterprise-wide greenhouse gas inventory through third-party auditing.
- **Café Imperfect Produce** — Compass Group USA, CalPERS’ café vendor, extended its partnership with San Francisco Specialty Produce to purchase imperfect organic produce. The “Imperfectly Delicious” program uses fruits and vegetables that have slight cosmetic imperfections. This produce is typically left un-harvested in the field or discarded, but is perfectly suitable for consumption. In addition, it is estimated that for every pound of produce saved, 20 gallons of water used to grow the produce is also saved. To date, the Café at CalPERS has rescued nearly three tons of produce, saving an estimated 112,900 gallons of water.

- **Organic Waste Champion** — CalPERS partnered with Greenwise and Atlas Disposal Industries in 2014 to implement a food waste diversion program at our headquarters. Through this program, the Café, Subway, Chocolate Fish, and Montessori in the City daycare collect their organic waste for disposal into a special trash bin provided by Atlas. In 2015, CalPERS diverted 18.49 tons of food waste for disposal into an alternative fuel product used by the city of Sacramento and Atlas.
- **Electric Vehicle Charging Stations** — In May 2015, 13 Level II Electric Vehicle (EV) charging stations were installed in Lincoln Plaza North and Lincoln Plaza East/West garages. Lincoln Plaza South garage has an additional seven EV charging stations.
- **Bike Share Program** — The CalPERS Bike Share Program was implemented in August 2011, and was established through a partnership between CalPERS' Sustainable Operations Program and the Wellness Program. The Bike Share Program makes bicycles available, at no charge, for staff to use for personal and business trips during work hours.
- **Sustainability Committee** — Since September 2012, CalPERS staff have been volunteering to participate in the monthly Sustainability Committee meetings to discuss ways CalPERS can be more "green."