



Department Vision

Our vision is to advance UC Riverside's energy and utility infrastructure, energy procurement, energy efficiency, energy renewables and campus-wide sustainability goals to make UC Riverside number one in energy management & sustainability.

Our Mission

**To create a smart, resilient,
energy efficient and
sustainable campus.**

Annual Facts & Figures

- Oversight of the 3 campus solar PV sites amounting to 7.5 MW.
- Works closely with Central Plant to reduce peak demand charges which on average, saves \$60,000 per month.
- Purchased utilities account for approximately \$14M on average per fiscal year.
- Two licensed professional engineers on the team.

Our Services

Energy & Utility Infrastructure

- › Improvements and further development for UCR's energy & utility infrastructure.
- › Collaborates with several groups to identify & resolve critical infrastructure issues.
- › Supports planning & design efforts for new construction and infrastructure projects.

Engineering

- › Supports maintenance & central plant operations through professional engineering services.
- › Assists building commissioning efforts for electrical, mechanical, controls & overall utility systems.

Energy Management, Sustainability & Outreach

- › Focuses on campus-wide energy reduction, water conservations & overall carbon footprint reduction measures.
- › Applies advanced energy management practices & system optimization.
- › Promotes environmental leadership, community, health & wellness.

Energy & Utility Procurement

- › Establishes partnerships with local utilities and their representatives.
- › Responsible for energy market trends, prices, volatility, risk management & mitigation strategies for purchased utilities.
- › Minimizes utility costs, maximizes profits.

Modernization

- › Supports & implements the modernization of campus and facility infrastructure.
- › Supports & implements modernization of antiquated control systems, automation, energy monitoring & overall utility systems.
- › Identifies & drives the modernization of facility service processes in relation to energy, operation and maintenance.

Standards & Best Practices

- › Provides & maintains best practices for energy & engineering standards for the campus.
- › Ensures all relevant state & UC codes, policies & standards are met for energy, engineering and sustainability initiatives.
- › Supports the integrity & accuracy of information & documentation relating to energy, utility and engineering documents.

Our Goals

Short Term Goals

- Create an Energy & Engineering website
- Complete the Central Steam Plant Insulation project to support energy efficiency.
- Complete LED Phase 2 project to support energy efficiency.
- Execute RPU/UCR agreement document and complete UCR substation acquisition.
- Complete the Arc-Flash program to support the safety of staff & identification of aging electrical infrastructure.
- Continue to identify critical locations for metering & monitoring for future implementation.

Long Term Goals

- Continue to grow the implementation of on-site energy renewable systems & improvement of building control systems.
- Execute all energy efficiency improvement projects for the Central Steam Plant.
- Continue to develop campus-wide energy monitoring and development of robust energy management system.
- Grow the Energy & Engineering team to provide further engineering support to Facilities Services & campus partners.
- Continue to grow partnerships between different stakeholders in support of energy, sustainability and infrastructure.

Organizational Chart

