

# The Million-Dollar Mistake: How EnergyCAP Saved the Day



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# Agenda



- ✓ About Carly and UC San Diego
- ✓ Life before and after EnergyCAP
- ✓ Our current process
- ✓ Catching the error
- ✓ Working with our vendor
- ✓ More of what UC San Diego does with EnergyCAP
- ✓ Q&A

## **About Carly Kupka**

University of Oregon, Sustainability

City of Eugene, Stormwater Management

Utility and Energy Analyst at UC San Diego since 2017

#### Hobbies:

- SUP'ing and snowboarding
- Rising Tableau enthusiast
- Cello
- Raising 2 babies





#### An overview of UC San Diego

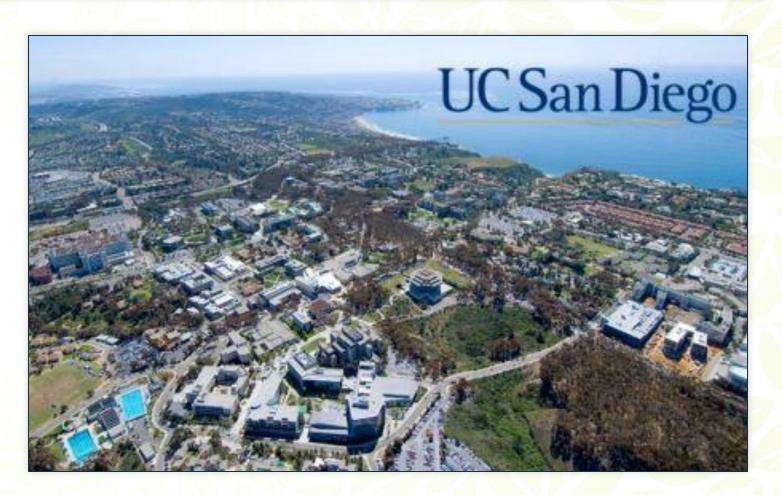
Main campus spans approximately 1,200 acres of coastal woodland in La Jolla, California

761 buildings and counting on the main campus, 3 hospitals, and 30+ off-site clinics

\$80 million annual utility budget

\$147 million annual recharge operation

The university is built on the un-ceded territory of the Kumeyaay Nation



# Before and After EnergyCAP

### **UC San Diego - Utility Management Transformation with EnergyCAP**

#### **Before EnergyCAP (Pre-2018):**

- Utility data managed entirely in spreadsheets
- 1 FTE handled ~2,000 meter reads, rate assignments, and billing manually
- Separate manual process for AP utility bills
- Entire billing cycle took a full month
- Reports were delayed by nearly 2 months

#### After EnergyCAP Implementation (2018+):

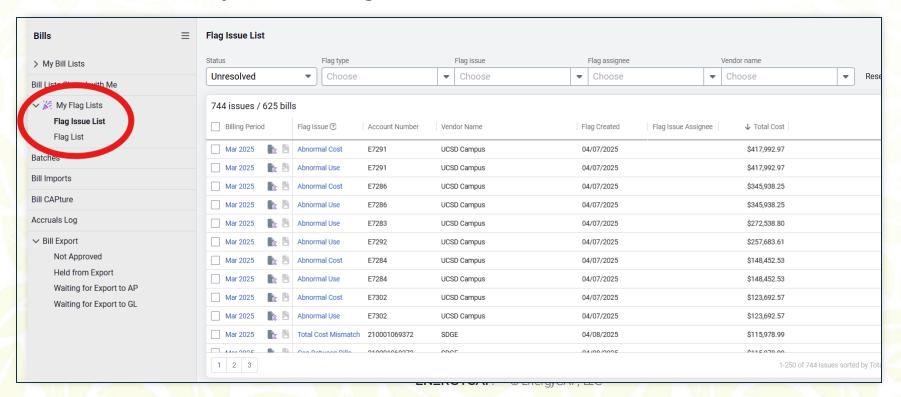
- All vendor bills uploaded and paid through EnergyCAP
- Internal recharges fully managed within the platform
- Meter data now collected automatically via interval data feeds
- Billing cycle now takes 1 week
- Staff time repurposed from manual billing to data sharing, energy savings, and sustainability reporting
- Stakeholder reports available by the second week of the following month
- Meter reader role consolidated, freeing up an entire FTE, reducing departmental costs

## **Questions so far?**

# The Million Dollar Mistake

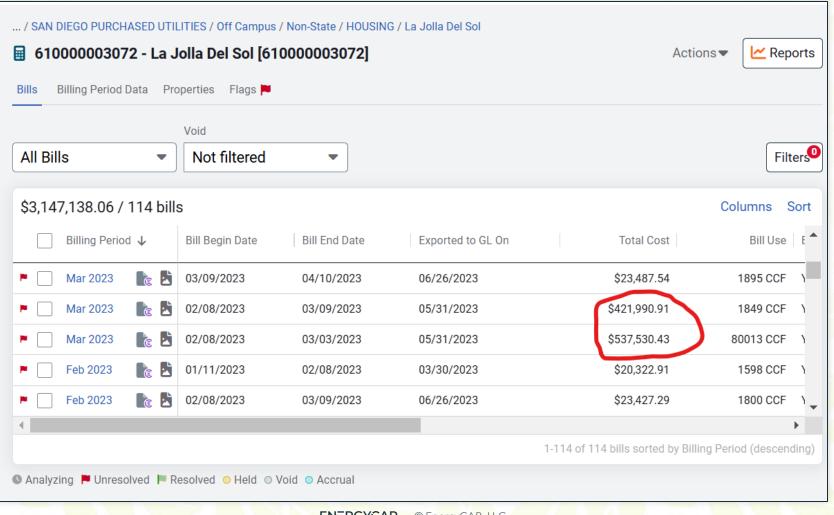
## **UC San Diego's Monthly Billing Workflow**

- ~ 1000 bills a month via EDI- paid and recharged in ECAP- AP Reformatter
- ~ 150-200 paper bills monthly- paid via check, uploaded to ECAP for recharge
- ~ 1200-1500 internal chargebacks created- GL Reformatter
- Internal review relies heavily on audit flags

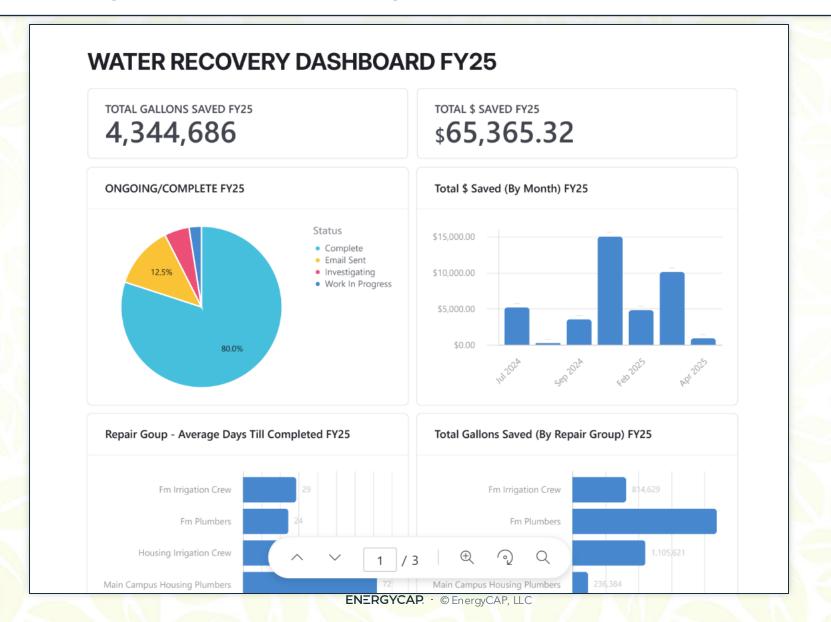


#### UC San Diego recovered \$1M due to a misbilled leak

EnergyCAP helps track and compare virtual meter data to identify and resolve vendor billing errors.



#### Visualizing water leak savings: water saved and financial impact



## **Public Dashboards**

Is anyone else in the room using Public Dashboards?

#### **FACILITY SERVICES**



Request Service -

Maintenance and Operations -

Information Management -

Sustainability -

Resources -

**Contacts** 

Q -

HOME / Resources / Energy and Water Dashboards

#### **Resources**

Maps and Construction Drawings

**Campus Waypoints** 

MyConstructionProjects

**Construction Alerts** 

Energy and Water Dashboards

Facilities Management Storehouse

Transportation and Parking

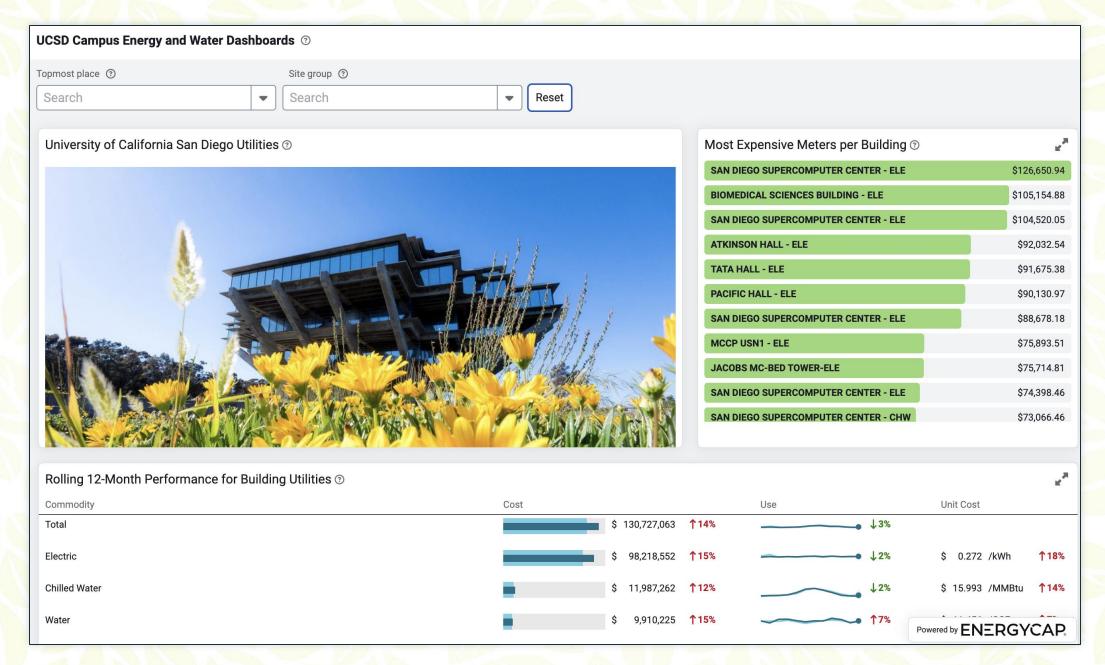
## **Energy and Water Use Dashboards**

Campus <u>energy and water dashboards</u> display data from more than 1,200 acres on the UC San Diego main campus and La Jolla Medical Center. Users can choose a specific building ("Topmost Place") to view more detailed data or view certain building groups. Building groups, organized by primary use, include:

- Complex (labs, clinics, medical spaces)
- Non-Complex (offices, classrooms, restaurants, etc.)
- Housing and Dining
- Academic Affairs
- · School of Medicine
- SIO
- La Jolla Medical Center
- Recreation
- University Centers

Through individual and collective efforts to reduce energy and water use, the UC San Diego community plays an important role in contributing to a more sustainable campus. We invite you to view displayed data for buildings that you visit regularly.

To learn more about simple ways to incorporate energy efficiency and water conservation practices into your laboratories, offices, classroom, and residences, see our <u>Green Programs</u>.



### Work in progress...

Leveraging EnergyCAP's API's and hosting data on internal server

Now have seamless ability to generate automatic reports in Cognos, Tableau, OFC

Allows for data blending between our financial platform and EnergyCAP meter data



## Questions?

We'd love to hear your thoughts!

Take a moment to share your feedback for this session in the **Sched app.** 

Your input helps us make future events even better.