CATALYST

Real Results: How Customers Use the Full EnergyCAP Suite to Drive Impact

Beth Calehuff
Senior Manager,
CAPture Services

Mike Hoffman
Energy Manager,
University of Arizona

The journey

- ✓ About University of Arizona
- ✓ Life before EnergyCAP
- ✓ Why EnergyCAP?
- ✓ Wrangling data: Interval data and utility bills
- ✓ Addressing complex cost allocation
- ✓ Secrets to success
- ✓ Wrap up – feel free to ask questions along the way!

 · © EnergyCAP, LLC

About University of Arizona

The University's utility data portfolio is complex

- Diverse energy sources
    - Electricity, natural gas, chilled water, steam, solar, and water systems across a vast campus footprint
- Multiple providers and rates
    - 14 different utility vendors
- Data volume and granularity
    - More than 1,000 meters
    - 80 unique utility rates
- Operational and financial impacts
    - Utility data influences budget, sustainability goals, and operational priorities

Critical to energy management goals and sustainability efforts are

ENERGYCAP · © EnergyCAP, LLC

About University of Arizona

The University's utility data portfolio is complex

Diverse energy sources

- Electricity, natural gas, chilled water, steam, solar, and water systems across a vast campus footprint

Multiple providers and rates

- 14 different utility vendors

Data volume and granularity

- More than 1,000 meters
- 80 unique utility rates

Operational and financial impacts

- Utility data influences budget, sustainability goals, and operational priorities

Critical to energy management goals and sustainability efforts are

- Cost control
- Efficiency
- Data accuracy

Life before EnergyCAP

Outdated systems

- Single SME responsible for managing submetering data
- Intensive manual labor

Limited analysis

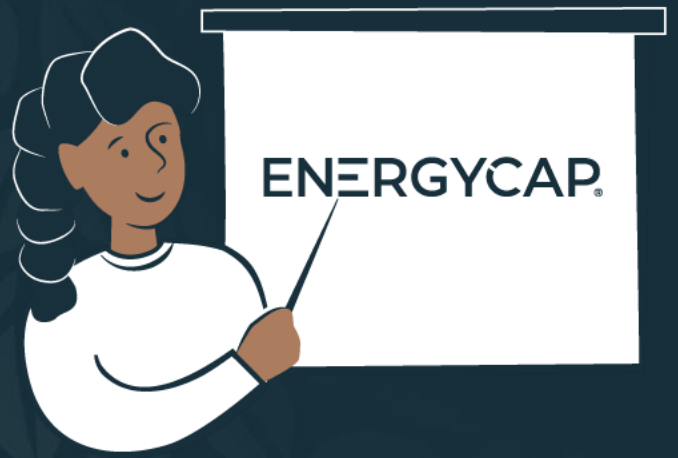
- 19+ years of data in spreadsheets
- Created tools with Excel for analysis
- Limited cost tracking and analysis

Lack of system integration

- Energy data siloed from financial and accounting systems

© EnergyCAP, LLC

Why EnergyCAP?



To achieve critical time and cost savings, the University of Arizona needed an automated system to scale.

- 100% control of our utility data
- Quality data
- The current process was labor intensive
- Integration to A/P and easily pay bills
- Cost-saving opportunities
- Comprehensive chargebacks and bill splitting
- Repeatable workflows
- Make data-driven decisions

 · © EnergyCAP, LLC

Energy data at your fingertips

M&V

- Option B vs Option C
- Submeter data

Interval data

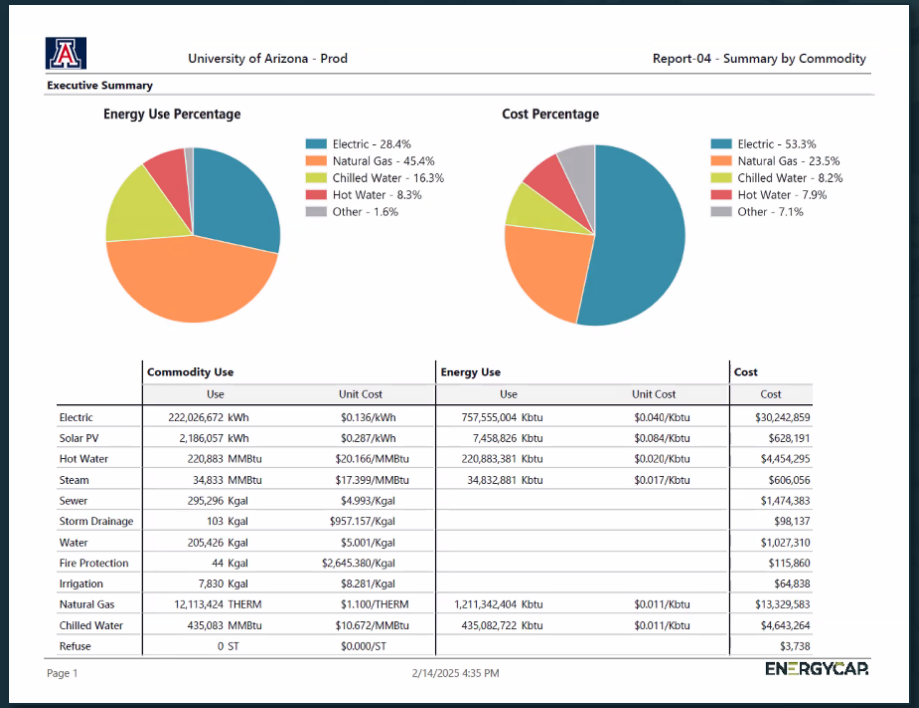
- Tracking actual use

Reporting and sharing data

- Automated reporting
- At-a-glance answers

Single source of truth

- Bill CAPture to get data into the system
- Finance and energy management work from the same dataset



University of Arizona - Prod — Report-04 - Summary by Commodity

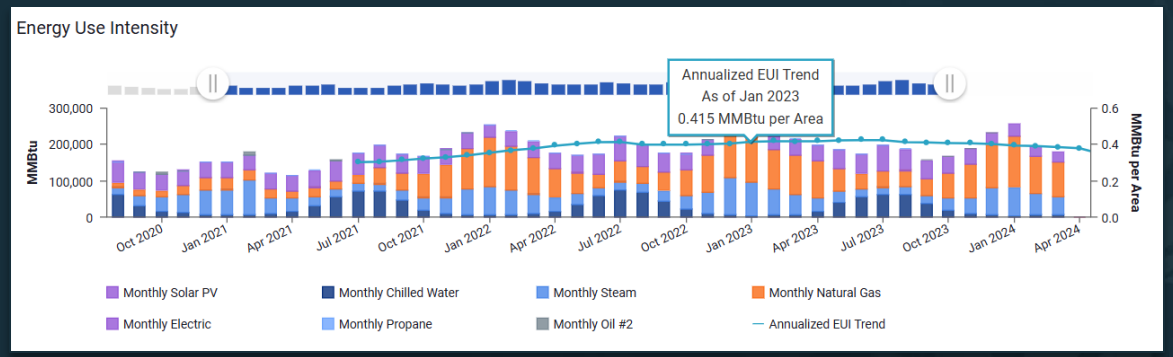
Executive Summary

Energy Use Percentage

Cost Percentage

	Commodity Use		Energy Use		Cost
	Use	Unit Cost	Use	Unit Cost	Cost
Electric	222,026,672 kWh	$0.136/kWh	757,555,004 Kbtu	$0.040/Kbtu	$30,242,859
Solar PV	2,186,057 kWh	$0.287/kWh	7,458,826 Kbtu	$0.084/Kbtu	$628,191
Hot Water	220,883 MMBtu	$20.166/MMBtu	220,883,381 Kbtu	$0.020/Kbtu	$4,454,295
Steam	34,833 MMBtu	$17.399/MMBtu	34,832,881 Kbtu	$0.017/Kbtu	$606,056
Sewer	295,296 Kgal	$4.993/Kgal			$1,474,383
Storm Drainage	103 Kgal	$957.157/Kgal			$98,137
Water	205,426 Kgal	$5.001/Kgal			$1,027,310
Fire Protection	44 Kgal	$2,645.380/Kgal			$115,860
Irrigation	7,830 Kgal	$8.281/Kgal			$64,838
Natural Gas	12,113,424 THERM	$1.100/THERM	1,211,342,404 Kbtu	$0.011/Kbtu	$13,329,583
Chilled Water	435,083 MMBtu	$10.672/MMBtu	435,082,722 Kbtu	$0.011/Kbtu	$4,643,264
Refuse	0 ST	$0.000/ST			$3,738

Page 1 — 2/14/2025 4:35 PM — ENERGYCAP



© EnergyCAP, LLC

Chargebacks

1. **Start with electric meters**
   Workflows organize groups of bill splits and calculations into repeatable steps so the same process is followed every month
2. **Calculate chilled water and steam**
3. **Calculate water and sewer**
4. **Calculate summary meters and split**
   Allocate use and cost by dividing a bill into smaller bills, or create a new bill based on submeter readings

 © EnergyCAP, LLC

Implementation outcomes

Save time

Bill CAPture processed more than 1,800 bills to date

Ad-hoc reporting

Automated processes

Customizable dashboards

- Share progress internally and externally

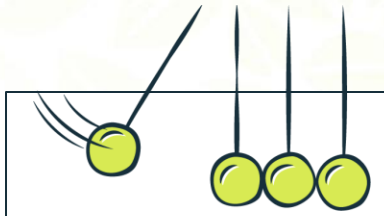
Save cost

Flag and address

Unusual use, cost, and demand

Billing errors, late fees, overlapping charges

- Easy cost avoidance calculations



Make an impact

Visibility into utility spend across buildings, vendors, and commodities

Well established documentation

Even more to come with accounting integration

Secrets to success

Bill CAPture

Chargebacks

Catalyst and ongoing learning

Accounting integration

Advice for other institutions

Lessons learned

Key takeaways

What's next at University of Arizona

Questions?

 © EnergyCAP, LLC

CATALYST

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.

· © EnergyCAP, LLC