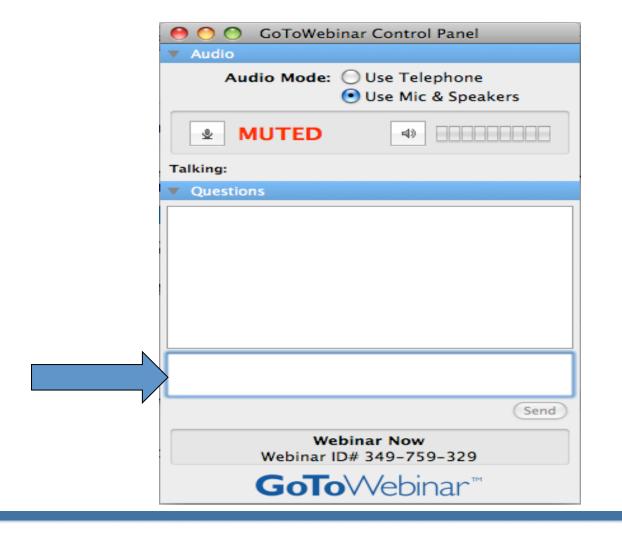


WEBINAR LOGISTICS

Questions:

At any point during the webinar, you can type your question into the question text box and click send. All questions directed towards a speaker will be read aloud and answered at the end of the presentations, as long as time permits.







AGENDA

Welcoming Remarks



Krista Kline

LA Regional Collaborative for Climate Action and Sustainability/ Alliance of Regional Collaboratives for Climate Adaptation

The Ins and Outs of the LA Energy Atlas



Zoe Elizabeth

California Center for Sustainable Communities

Special Guest: Ron Mohr, County of Los Angeles





And the ultimate alliance...

The Alliance of Regional Collaboratives on Climate Action













Our current members:





































SOUTH BAY CITIES
COUNCIL OF GOVERNMENTS



















Thank you.





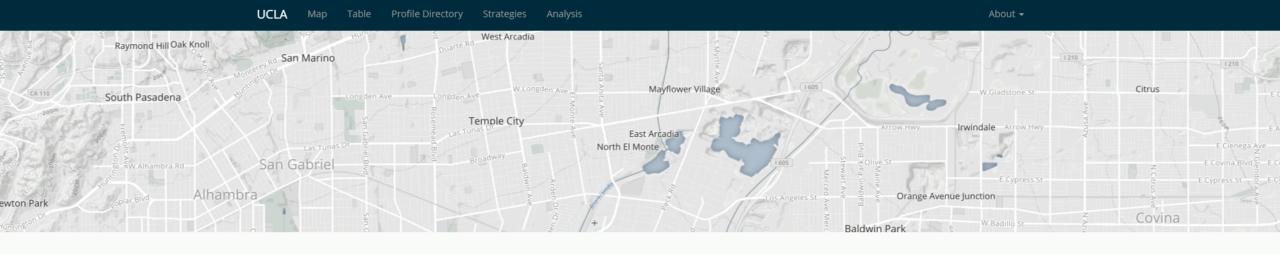
larc@ioes.ucla.edu



LARegionalCollaborative.com



@The_LARC



LA Energy Atlas

A first of its kind interactive website built with the largest set of publicly available disaggregated energy data in the nation.

Map Table Profiles Strategies.

The LA Energy Atlas is a project of the California Center for Sustainable Communities at UCLA

Principal Investigator: Stephanie Pincetl, Phd Project Manager: Zoe Elizabeth (presenter)

Project Partners:













Purpose

- Researchers and decision-makers need disaggregated energy data for California meet its energy goals.
- Local governments need disaggregated data to inform energy programs, to build meaningful greenhouse gas inventories
- In the building sector, historic lack of data access from energy providers has impeded understanding necessary to implement effective, targeted programs. Privacy has been stated as a primary obstacle to data sharing.
- The Energy Atlas represents a major step forward in unlocking the power of disaggregated energy data.
- UCLA looks forward to working with stakeholders across the state to further improve access and information

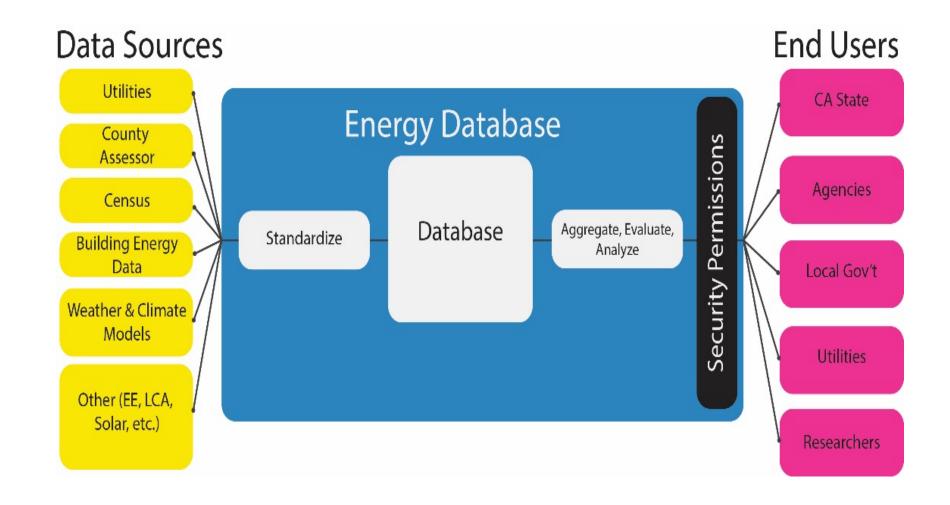
Why Los Angeles?

- 25% of the State's population and energy consumption
- 50% of the State's disadvantaged population
- Diverse demographics, building stock, geography and climate
- UCLA looks forward to working with others to expand to additional geographies.

Overview

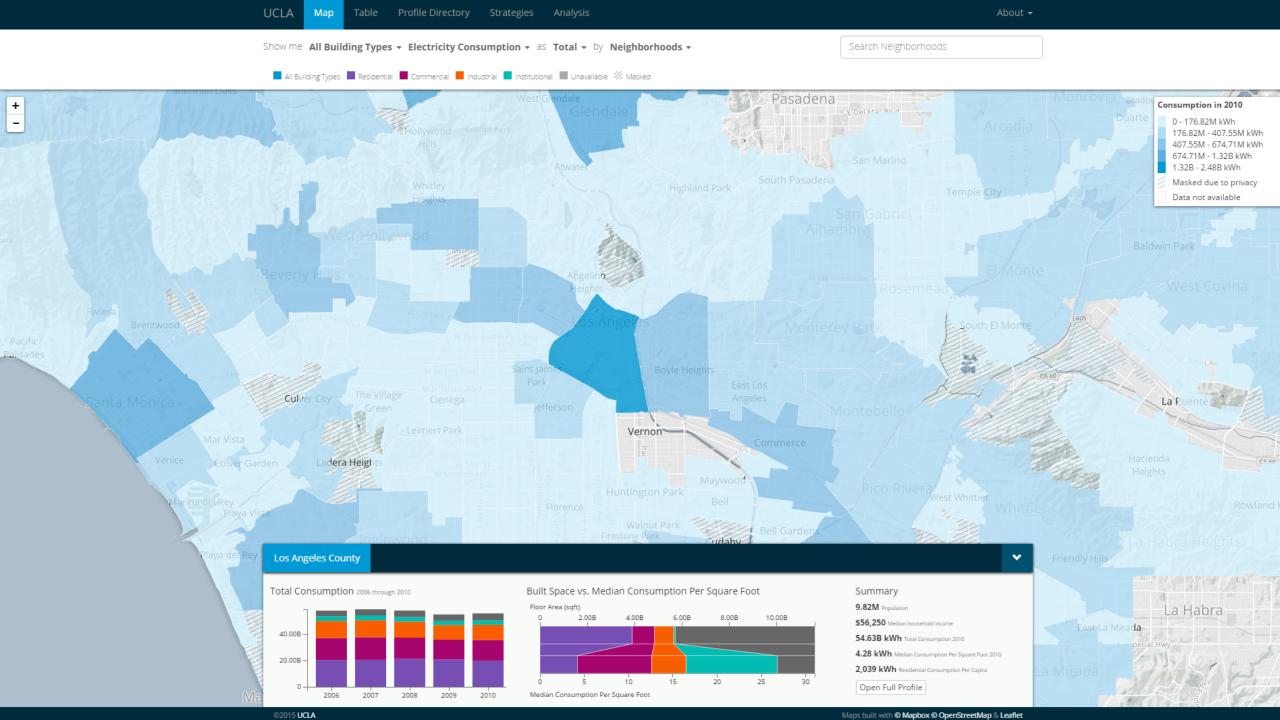
- Backed by a powerful geospatial relational database with over 500 million records of address level energy consumption
- Developed through an active 2-year collaborative stakeholder driven process
- Connects energy consumption to building characteristics, sociodemographics and other meaningful variables
- Data is aggregated to protect customer privacy
- The underlying database, though not publicly available, provides a flexible and dynamic platform to answer policy questions in a timely manner

Database



Website Components

- Data for over 90 cities and over 200 neighborhoods
- All data is downloadable in CSV or Excel
- Interactive map showing total and normalized consumption metrics
- Detailed, printable, factsheets for each geography
- Data table that enables comparison across geographies and across variables
- Data stories that describe statistically derived patterns across the County
- A strategy section provides an overview of energy policies and programs



Residential Single Family Multi Family Condo Commercial Industrial Institutional Other Mixed Uncategorized Unavailable // Masked

Los Angeles County

Consumption (BTU) in 2010

9.82M Total Population (100% of LA County)

2,405 Population Per Square Mile

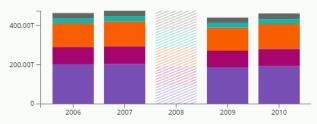
\$56,250 Median Household Income

47.14B kWh Net Solar Potential

1,018 Vulnerable CalEnviroScreen Census Tracts



Summary



454.42T BTU Total Consumption (BTU)

0.29% change from 2006 through 2010

100% of LA County's Total Consumption

This graph shows consumption from 2006 through 2010. Note that 2008 natural gas data was not available for analysis.

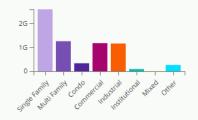
Building Types

43,995 BTU Consumption (BTU) Per Square Foot

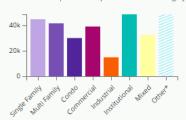
0% Above LA County Average

Total Consumption in 2010

Built Space (Square Feet)



Median Consumption Per Square Foot All Building Types



Map

Profile Directory

Strategies

Analysis

About **▼**

Search

Table

Add ▼ Sort ▼ Clear

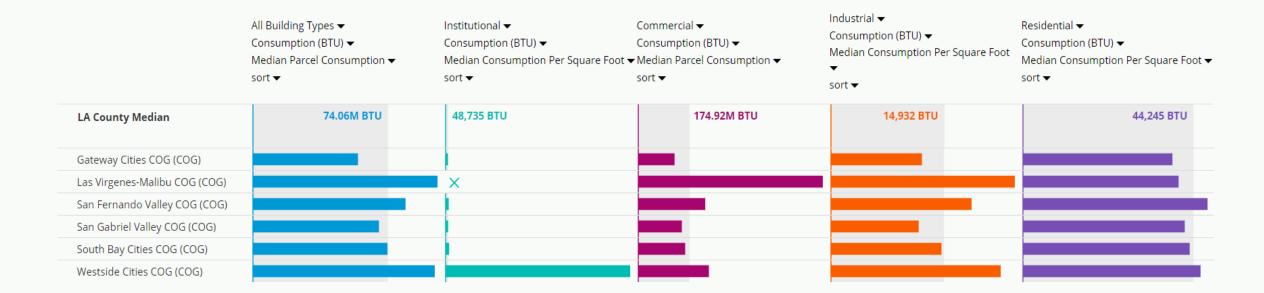




Info

On this page, you can access the data across a range of different variables, including geographies, building types, energy use units and consumption type. You can also download the data by clicking on the "Download Data" button at the top right.

Got it!



Example Information

- On average poorer areas use more energy per square foot and less energy per person
- Malibu uses nearly 10 times more energy on a per capita basis than Hawaiian Gardens
- In Los Angeles, smaller buildings use a considerable amount of energy
- Newer homes used less energy per square foot than older ones, while newer commercial buildings used more energy per square foot than older ones

Example Analysis

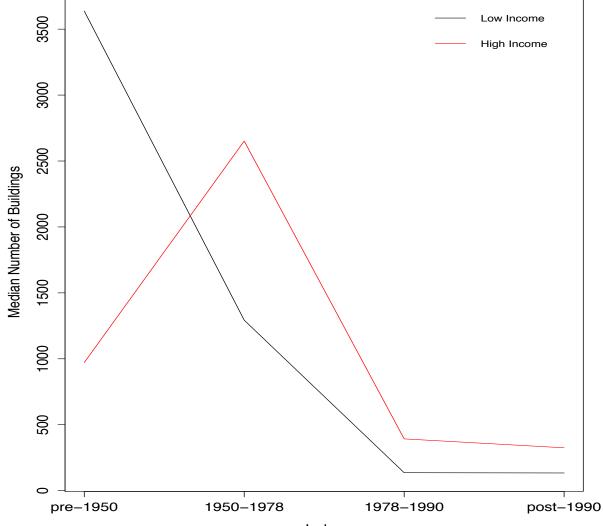
Comparing Single-Family and Multi-Family?

	Median Energy Use Intensity (BTU/sq-ft)		
	residential.btu	single.family.btu	multi.family.btu
Median (all Nbhds)	58,629	59,587	56,724
Broadway-Manchester	69,350	74,102	64,248
Chesterfield Square	66,044	66,917	62,234
Florence-Firestone	70,518	73,729	67,337
Harvard Park	70,575	72,120	67,335
Westmont	71,922	72,710	70,922
West Compton	72,069	72,127	56,688
East Compton	76,947	78,948	66,272

Erik Porse, CCSC Research Scientist

Additional Detail

Median number of buildings in lower-income (black) and higher income (red) neighborhoods by building vintage categorizations. Lower-income neighborhoods tend to have older buildings, while higher-income neighborhoods have more buildings built after 1950. The predominance of older buildings in lower-income areas may contribute to greater energy use per square foot. – (Erik Porse, CCSC Research Scientist)



The Importance of Collaboration

- University provides advanced technology and research
- County implements programs and responds to State legislation
- LARC serves local governments, environmental NGOs and others
- Stakeholders provided detailed and high level feedback on what they wanted out of the tool
- Building the project through collaboration was essential to its success.

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Questions?

LA County

A User's Perspective Presentation by Ron Mohr

Benefits to LA County

(i.e. why the County participated)

- The Energy Atlas provides LA County benefits of disaggregated data available to research universities
- UCLA has the research and technology capacity to implement this solution in a way the County does not
- UCLA benefited from the County's superior GIS department and solar map
- UCLA was committed to creating a useful tool and took feedback every step of the way

Uses for Local Governments

- Consistent and reliable greenhouse gas accounting
- Energy Efficiency program targeting
- Grant and proposal data requirements
- Energy disclosure ordinances
- Program and investment tracking overtime
- Grid planning (adaptation and future resiliency)
- Research and development

THANK YOU

Join us for our next Learning Session:

Building Business Resiliency

December 2nd | 12:00-1:00pm

Meg Arnold, Valley Vision

Katy Maher, Center for Climate and Energy Solutions

Christopher Benjamin, Pacific Gas and Electric Company

Learn more about ARCCA:

www.arccacalifornia.org

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