

City of San José

Energy and Water Building Performance Ordinance



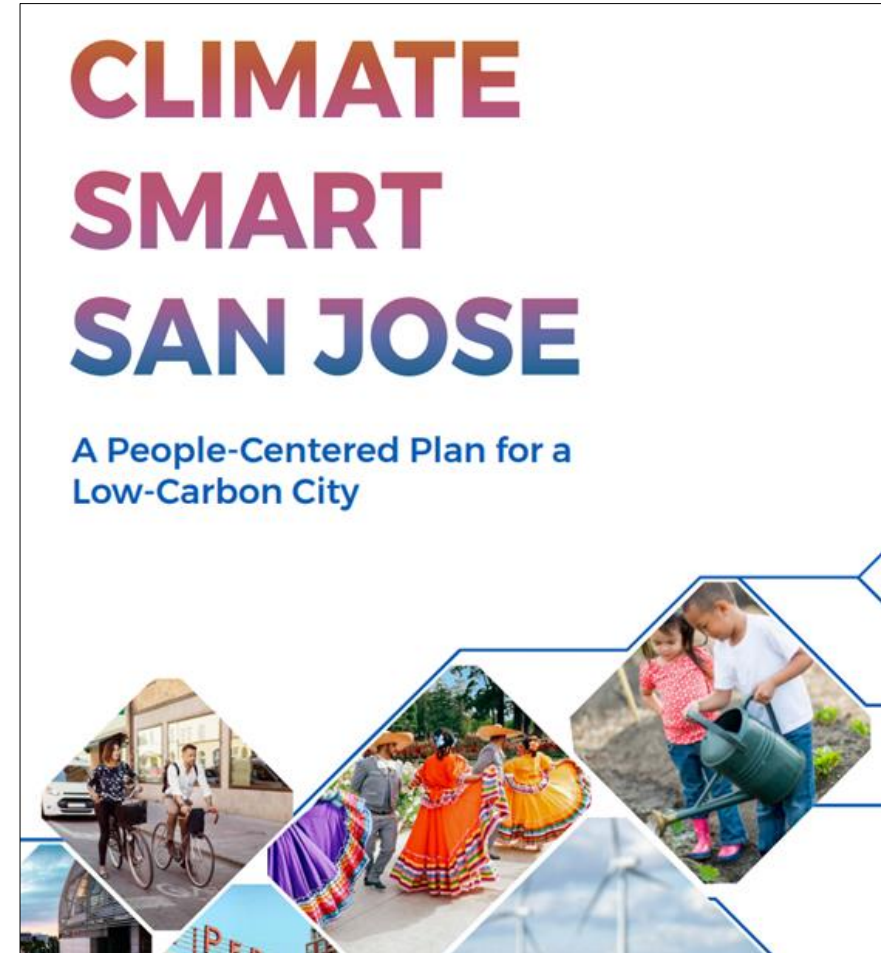
Environmental Services



Delivering world class utility services and programs to improve our health, environment, and economy.

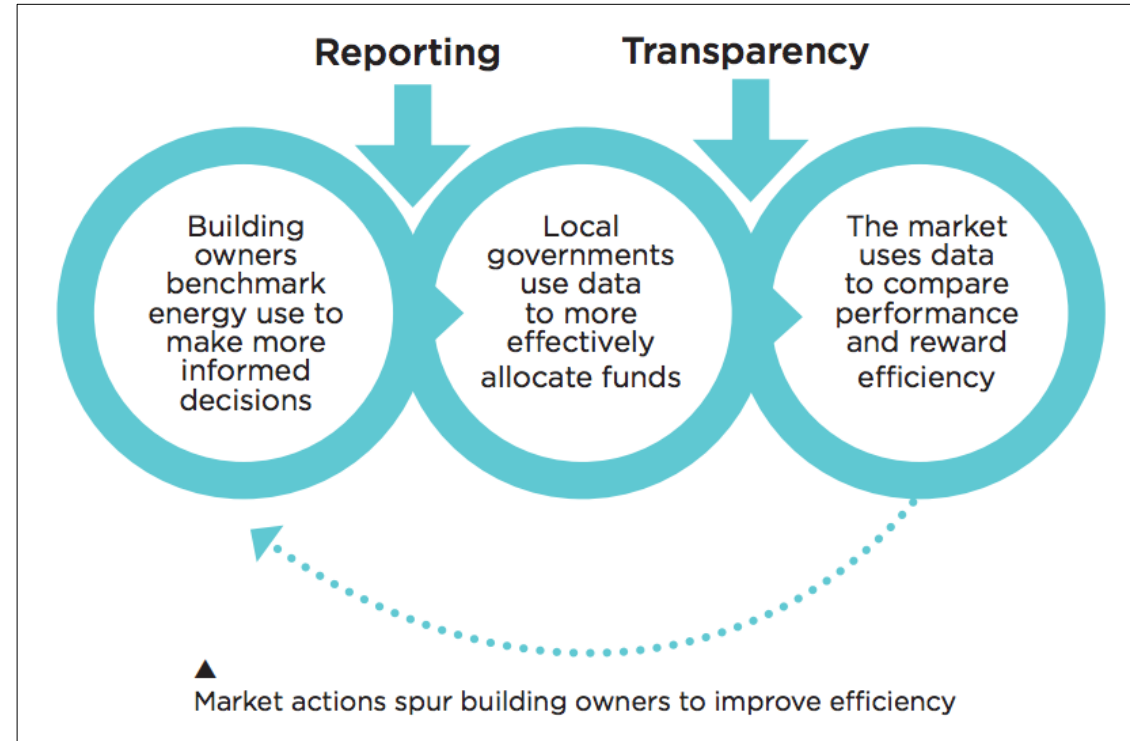
Background

- Ordinance approved by San José City Council on Dec. 11, 2018
- Aligned with Climate Smart San José
- Supported by the City Energy Project (CEP)



Delivering world class utility services and programs to improve our health, environment, and economy.

Benchmarking Supports Market Transformation

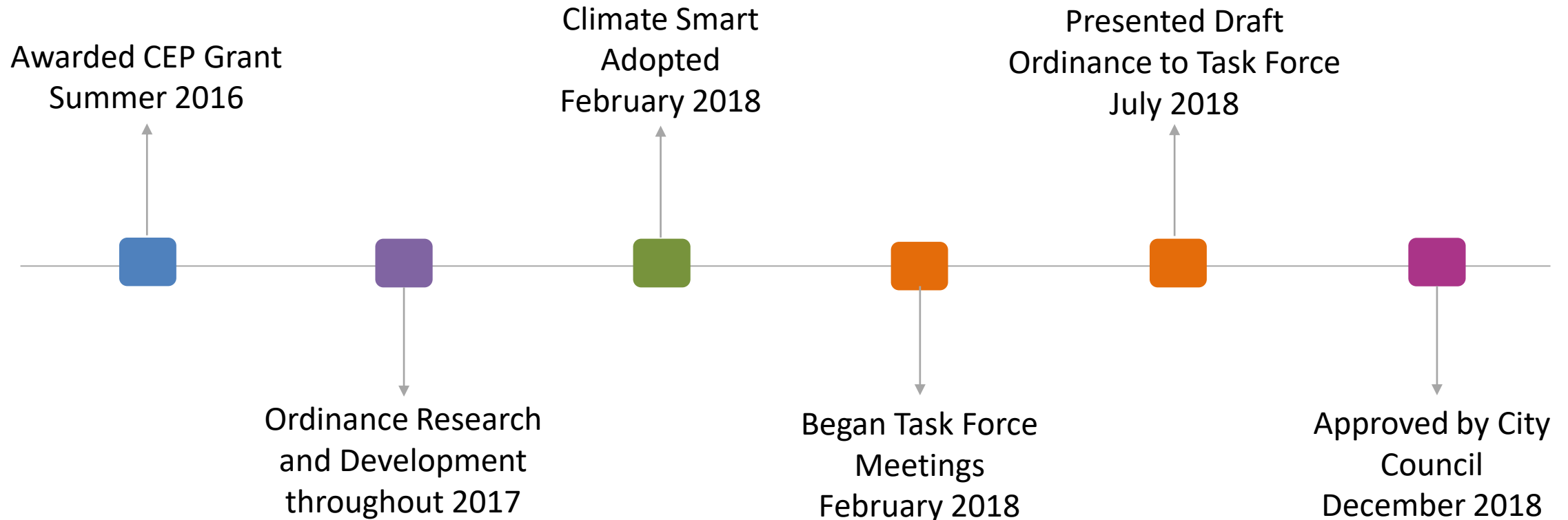


“Market transformation is a process of strategic intervention in the market to bring about widespread, permanent change”

Institute for Market Transformation

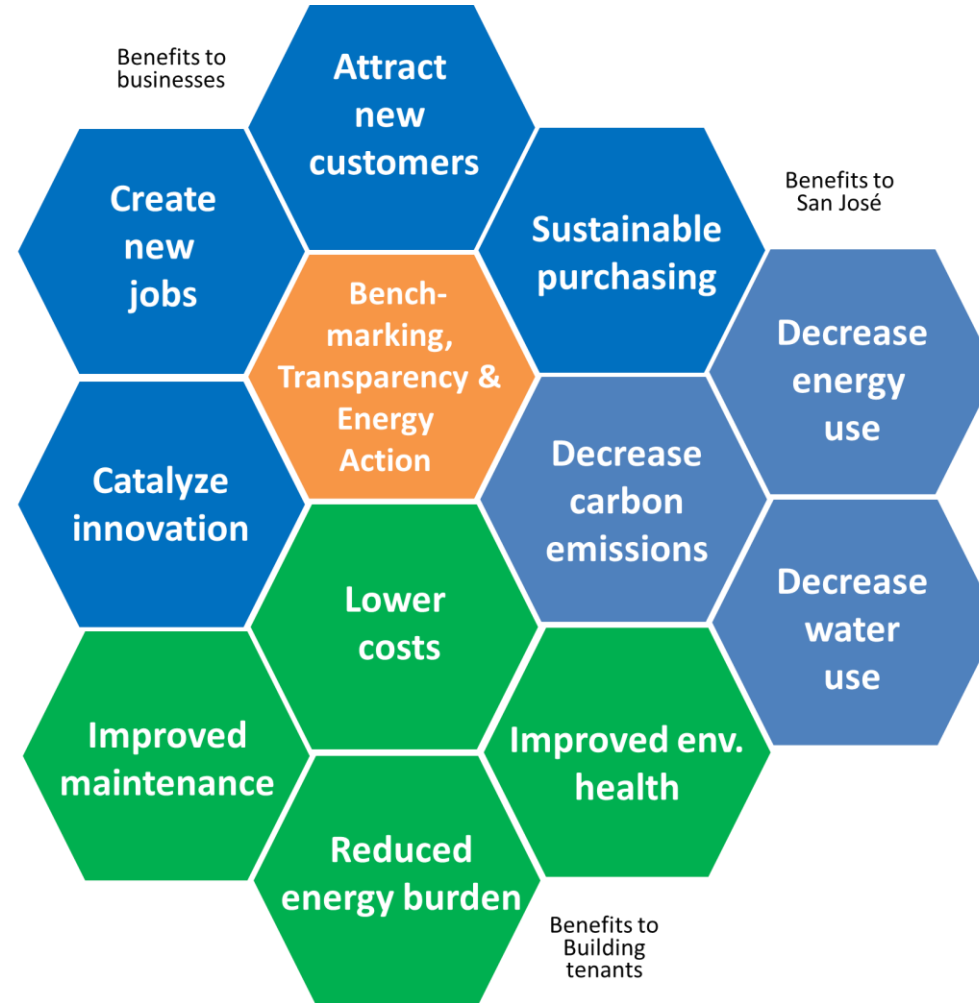
Delivering world class utility services and programs to improve our health, environment, and economy.

Development Timeline



Delivering world class utility services and programs to improve our health, environment, and economy.

Building Performance Ordinance Benefits



Delivering world class utility services and programs to improve our health, environment, and economy.



Ordinance Task Force

Engaged more than 50 organizations and 100 individuals over the course of 7 months

- **Meeting 1:** Introduction to benchmarking and transparency ordinances
- **Meeting 2:** Examining San José's building stock
- **Meeting 3:** Reporting and transparency
- **Meeting 4:** Examining ordinance components, reporting, and compliance
- **Meeting 5:** Implementation and enforcement, education and training
- **Meeting 6:** Final workshop, reviewing draft ordinance



Delivering world class utility services and programs to improve our health, environment, and economy.



Sample Presentation:

Building Stock Summary Analysis

THRESHOLD	# OF BUILDINGS	% OF BUILDINGS	% OF GROSS SQUARE FOOTAGE
50,000	1558	13%	70%
30,000	2280	19%	78%
25,000	2607	22%	80%
20,000	2930	24%	82%
10,000	4766	40%	90%

Delivering world class utility services and programs to improve our health, environment, and economy.

Sample Presentation: What Do Other Cities Publish?

Building Identification
Local Building ID/Portfolio Manager ID
Parcel Number/Tax Parcel/Tax ID/BBL ID
Property or Building Name
Parent Property Name
Owner
Address
Postal Code
Community/Neighborhood/Ward/Borough
Location (Latitude, Longitude)
Compliance Status
Property Characteristics
Property Floor Area (buildings) (ft ²)
Property Floor Area (buildings and parking) (ft ²)
Number of Buildings
Primary Property Type
Property Uses
Year Built

GHG Metrics
Total GHG Emissions (Metric Tons CO ₂)
Total GHG Emissions Intensity (kgCO ₂ e/ft ²)
Direct GHG Emissions (MtCO ₂ e)
Indirect GHG Emissions (MtCO ₂ e)
Water Metrics
Water Use (kgal)
Municipally Supplied Potable Water, Indoor Intensity (gal/ft ²)
Water Intensity (gal/ft ²)
District Chilled Water Use (kBtu)

Energy Metrics
Energy Star Score
Energy Star Certified
Source EUI (kBtu/ft ²)
Weather Normalized Source EUI (kBtu/ft ²)
Site EUI (kBtu/ft ²)
Weather Normalized Site EUI (kBtu/ft ²)
Electricity Use - Grid Purchase and Generated Onsite (kWh)
Electricity Use - Grid Purchase and Generated Onsite (kBtu)
Natural Gas Use (therms)
Natural Gas Use (kBtu)
District Steam Use (kBtu)
Fuel Oil #2 Use (kBtu)
Other Fuel Use
Onsite Solar (kWh)
Total Site Energy (kBtu)
Total Site Energy - % Electricity
Total Site Energy - % Gas
Total Site Energy - % Steam
Percent Better than National Median Site EUI
Percent Better than National Median Source EUI

Delivering world class utility services and programs to improve our health, environment, and economy.



Sample Presentation:

Discussion

Questions about the material covered or information presented?

What is a reasonable coverage threshold for San José?

How will different thresholds impact the building stock and stakeholders?

What is a reasonable compliance timeline for San José?

How will different compliance timelines or ‘phasing’ impact stakeholders?


What else do we need to consider about the building stock?

How can the City support benchmarking and reporting for building owners?

Do any working groups need to be designated?



Adopted Ordinance Framework

- 
- Commercial and multifamily buildings over 20,000 square feet
 - Includes both energy and water annual benchmarking
 - Beyond Benchmarking
 - 5-year cycle, phased in based on parcel number
 - Buildings can “choose their own destiny,” pursuing either a performance or improvement pathway
 - Exemption for multifamily

City of San José Benchmarking and Transparency Ordinance

EVERY 5 YEARS: Beyond Benchmarking Pathways

MEET REQUIREMENTS FOR		ENERGY				<i>and</i>	WATER									
PERFORMANCE PATHWAY: OPTION 1 MEET TARGET METRICS		ENERGYSTAR Score of 75 or greater	or	Improve ENERGYSTAR Score by 15 pts	or	Energy Use Intensity (EUI) is 25% above median for use type	or	Improve EUI by 15%	<i>and</i>	ENERGYSTAR Water Score of 75 or greater	or	Improve ENERGYSTAR Water Score by 15 pts	or	Water Use Intensity (WUI) is 25% above median for use type	or	Improve WUI by 15%
PERFORMANCE PATHWAY: OPTION 2 LEED EBOM		LEED Existing Buildings Operations and Maintenance Certification, meeting compliance standards for both energy and water														
IMPROVEMENT PATHWAY		ENERGY	OPTION 1	OPTION 2	OPTION 3*	<i>and</i>	WATER**	OPTION 1	OPTION 2	OPTION 3*						
			ASHRAE 2 Energy Audit	or	Energy Retro- Commissioning	or	Choice of 2 Energy Efficiency Improvement Measures		Water Audit	or	Water Retro- Commissioning	or	Choice of 2 Water Efficiency Improvement Measures			


*For buildings without central cooling only

**Multifamily buildings under 50,000 sq. ft. without water submetering are eligible for exemption to this ordinance requirement

Delivering world class utility services and programs to improve our health, environment, and economy.



Status Update

- 
- Approved by California Energy Commission
 - Five-month implementation ramp up for first reporting deadline of May 1, 2019
 - Approx. 645 reports received to date, with over 460 verified as in compliance
 - Implementing a cost-recovery system for FY 2019-2020
 - Fee set at \$150 per building



Outreach and Resources Developed

- Nine webinars
- Five half-day open office hour sessions
- Thousands of 1-1 assistance calls, screenshares, emails...
- General flyer
- FAQ's
- Compliance Checklist
- Extension and Exemption Request Form
- Published Covered Buildings List

Lessons Learned through Development

- Early and frequent interdepartmental engagement
- Leverage existing relationships to build stakeholder network
- Start mapping existing resources ahead of time
- Always ask “Who isn’t here that should be?”
- Talk to other cities- don’t recreate the wheel!
- Begin ordinance drafting early



Lessons Learned through Implementation

- Leverage industry and trade associations in outreach
- Low technical skill of building owners
- Misconceptions about data access
- Ensure fully dedicated staff are available in weeks leading up to and immediately after reporting deadline
- Covered buildings list data quality issues

Helpful 3rd Party Resources

https://www.imt.org/resource-library/

Apps Room Reservation EV Reservations Port: MIS Help Desk CSJ Org. Charts Energy Insight for Pa: Basecamp Phase 2 C SEED Platform™ Box ENERGY STAR Portf: OED Business Look U City of San José Onlin Contract Search Oracle PeopleSoft Sig

https://www.buildingrating.org/policy-comparison-tool

Apps Room Reservation EV Reservations Port: IT Help Desk CSJ Org. Charts Energy Insight for Pa: Basecamp Phase 2 C SEED Platform™ Box ENERGY STAR Portf: OED Business Look U City of San José Onlin Oracle PeopleSoft Sig ESD Conference Cal



SMALL BUSINESS ENERGY INITIATIVE ACTION GUIDE:
How chambers of commerce can lead an effort to drive high performance and savings for small businesses.

Small Business Energy Initiative Action Guide

This guide contains tools, resources, and practices to energy inform efforts to enhance a program help a chamber of small business measure the immense benefits of efficient buildings.



Compare Policies

This tool can compare building energy/water benchmarking, disclosure, and reporting policies across multiple jurisdictions throughout the world.

1. SELECT DATA: Compare jurisdictions and policy elements by clicking on the + sign to the right of the name of the jurisdiction or policy, or by dragging the items to the boxes on the left. Rearrange selected elements as desired to sort the output.
2. VIEW DATA: Click on "Compare These Policies" to create an interactive table. Sort the results alphabetically by clicking on a column title, or reorder the columns by dragging a column heading to a new position. Click on the name of the jurisdiction to go directly to its detailed Jurisdiction page.
3. EXPORT DATA: Results can be copied to the clipboard as plain text, exported to a CSV file suitable for importing into a spreadsheet, or output in an Excel-friendly format. To export data to Excel, click the "Excel" button. This will open the policy table in a new browser tab. From there, save the webpage as a "Webpage, complete" to your computer. Then, use Excel to open the HTML file. It will import that policy table with the formatting intact.
4. CHARACTER SETS: Some data in the table includes non-standard characters. In order to display it properly after downloading, please set your spreadsheet program to display in UTF-8 or UTF-16 character encoding.

I would like to compare policies in:

FILTER JURISDICTIONS

0 ITEMS SELECTED

REMOVE ALL

Search

ADD ALL



- + Alabama +
- + Alaska +

Delivering world class utility services and programs to improve our health, environment, and economy.



<https://www.buildingrating.org/policy-comparison-tool>

<https://www.imt.org/resource-library/>



Questions?

Ariel.Carpenter@sanjoseca.gov
408.535.8560



Delivering world class utility services and programs to improve
our health, environment, and economy.