

# City Energy Project – San José

## Benchmarking and Transparency Policy Package

### Meeting 5: Water Conservation, Implementation and Enforcement, and Education

June 14<sup>th</sup> , 2018



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Welcome



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# Recap Meetings 1-4

## Kick Off

- Benchmarking Overview
- Initial Characterization of Building Stock

## Meeting 2

- In-depth Analysis of Building Stock Coverage and Thresholds
- Introduction to EPA ENERGY STAR Portfolio Manager

## Meeting 3

- Reporting Process through ENERGY STAR Portfolio Manager
- Levels of Transparency

## Meeting 4

- Policy Design Options and Examples
- Ensuring Data Quality

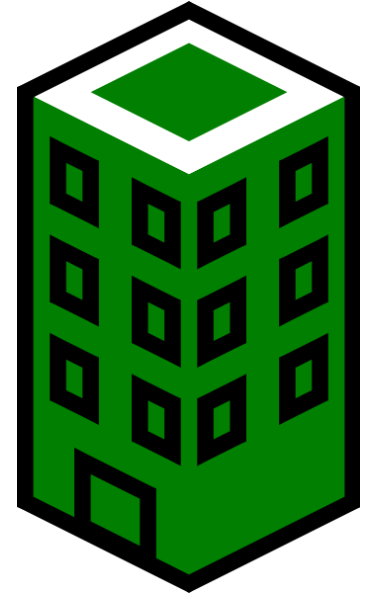
# Potential Policy: Beyond Benchmarking

## Annual benchmarking

- Annual public reporting

## 5 year compliance cycle

- Performance options
  - Minimum ENERGY STAR Score/Certification
  - Maximum WUI
  - Demonstrated energy and water use reduction
- Prescriptive options
  - Energy and water audit
  - Retrocommissioning (RCx) or Retuning
  - Complete simple building retrofits



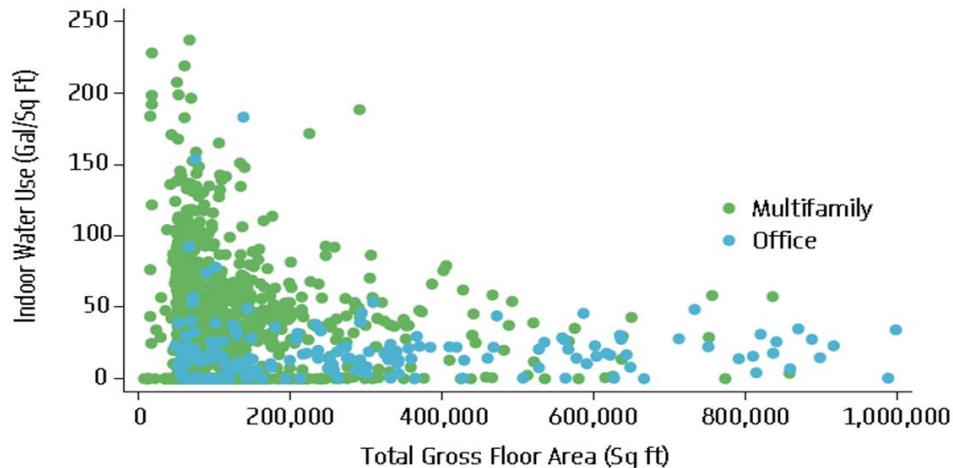
# Water and Climate Smart San José

- *Strategy 1.2: Embrace our Californian climate*

Progress Milestones	Million gallons of water per day	Gallons of water per capita per day	% of demand met by reuse/recycling water
Today	116	60	5%
2030	107	42	14%
2040	76	20	23%

# Opportunities for Water Savings

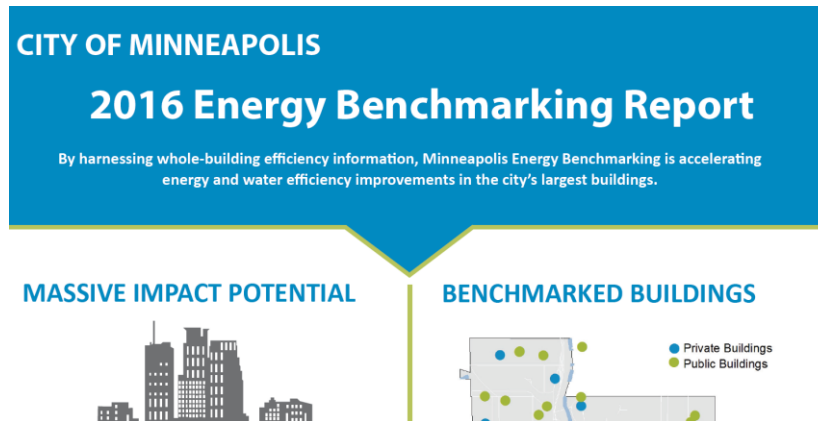
- Atlanta's Better Buildings Challenge found a ~70x variability in the water consumption per sq. ft. in buildings.
- NYC's 2012 benchmarking report found even more variability in water consumption and much room for improvement.



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# Success in other Cities

- In Minneapolis, total water consumption dropped 5.9% in consistently benchmarked buildings, and public buildings showed a nearly 12% decline in water consumption from 2015 to 2016.



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# Water Data and Metrics

- ENERGY STAR Scores for water are only available for multifamily properties, but water use metrics (indoor/outdoor water use, water use intensity) are calculated for all use types
- Water consumption data, provided on water retailers' billing statements, must be input into ENERGY STAR Portfolio Manager manually



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# Water Performance Standards

- **Demonstrate compliance through basic performance standards that require no further action:**
  - Minimum ENERGY STAR Water Score for MF buildings, or maximum water use intensity for all other building types (WUI)
- **Demonstrated Improvement**
  - Reduce WUI (% reduction over previous 5 years)

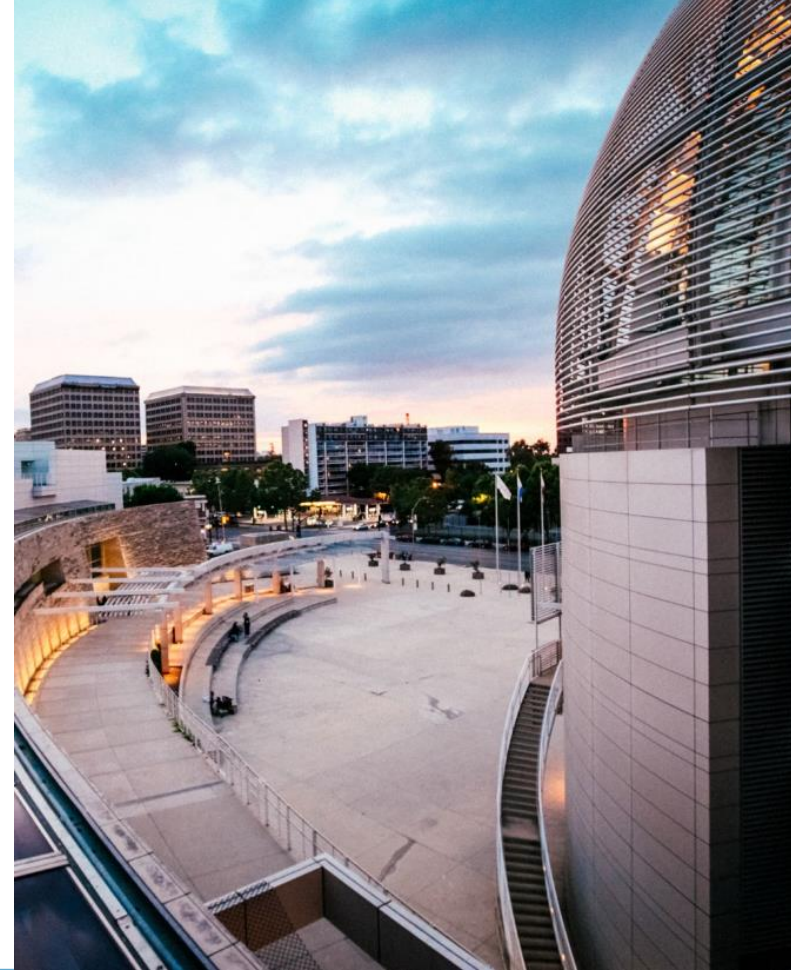
# Prescriptive Pathways for Water

- Further action is required if basic performance standards are not met, for example:
  - Water Audits
  - Retrofits
  - Meet plumbing code
  - RCx/Retuning options?



# City Role

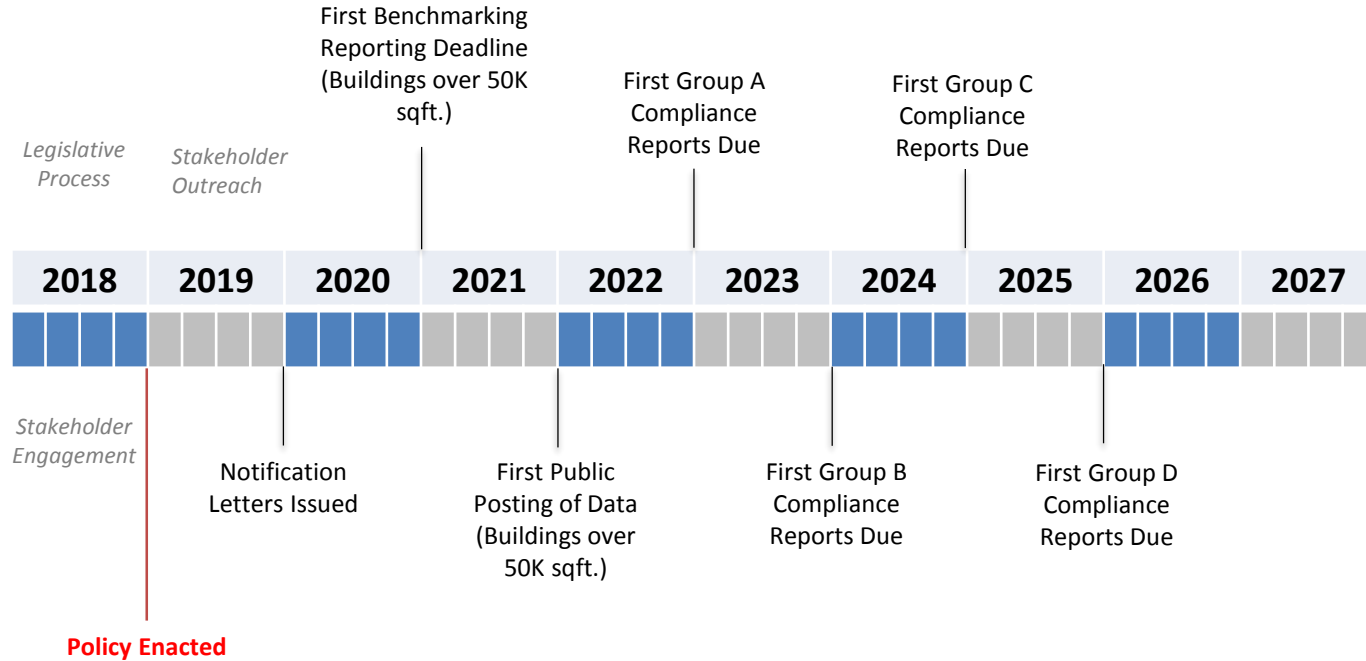
- Coordinating agencies for implementation
- Budgeting for staff and capacity
- Designating and training staff
- Education and outreach
- Notification and enforcement
- Assuring data quality
- Tracking and reporting



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# Potential Rollout Schedule: 50k ft<sup>2</sup> (enhanced AB 802)

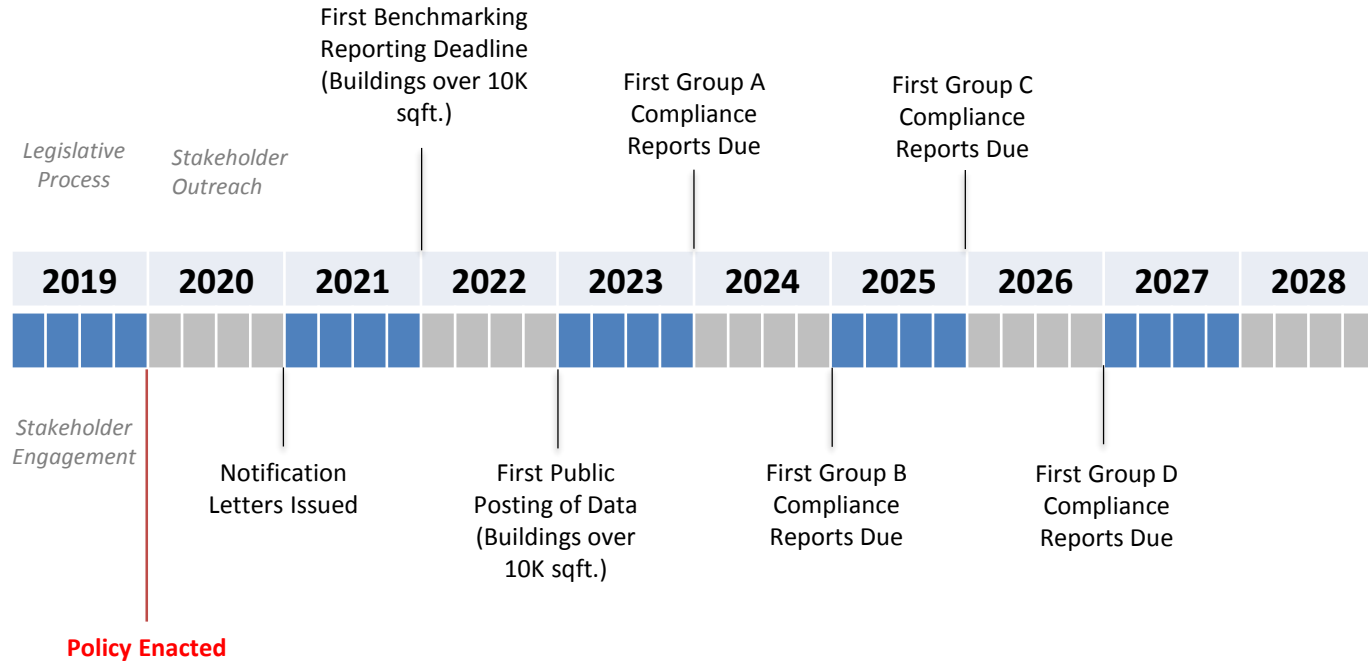
## STAGE I



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# Potential Rollout Schedule: >10k ft<sup>2</sup> Threshold

## STAGE II



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# Submission Process

- Custom ENERGY STAR Portfolio Manager template for City of San José, compliant with CEC requirements
- Data verification requirements
- Digital upload to City of San José Master Portfolio Manager Account
- Automatic notification of missing or incomplete information
- City review of submission for data quality assurance



# Potential Enforcement Process

- Letter stating that data was not received within 30-day grace period
- Letter stating noncompliance and potential for fines
- Levy of fines for additional delay in filing or noncompliance
- Engagement of the City Attorney's Office
- Additional penalties



# Education and Outreach

- Workshops, trainings and events
- Speakers Bureau
- Office hours
- Noticing

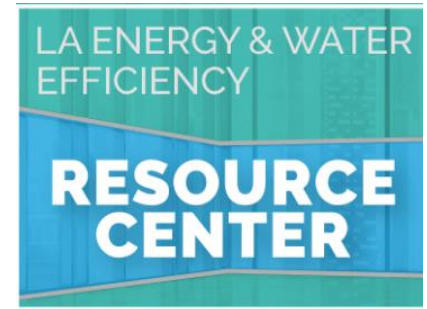


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# Technical Assistance and Resources

- ENERGY STAR Portfolio Manager online guides, videos and webinars
- City of San José guides on:
  - Benchmarking
  - Audits and RCx
- City of San José support for initial filing, general benchmarking Q&A
- PG&E support for energy data access and uploads
- Water retailers for water billing questions
- PG&E, Water district AND retailers for rebates/incentives





# Task Force Timeline and Next Steps

**Meeting 6:** Review Draft Ordinance

July 18, 2018

- Internal staff committee reviews
- Language review and approval from City Attorney
- City Council Committee input/recommendation
- City Council adoption



# Discussion

What water performance standards should be included in this ordinance?

What would RCx/Retuning measures look like for water, beyond identifying/fixing leaks?

How can we align performance standards with existing programs and incentives from water retailers/wholesalers?

What types of education or outreach will be most effective – trade organizations, peer-to-peer?

What types of technical assistance are most valuable?

How can the City communicate most effectively with the building owner and management community?

What level of fines or other enforcement strategies will ensure that buildings owners comply?