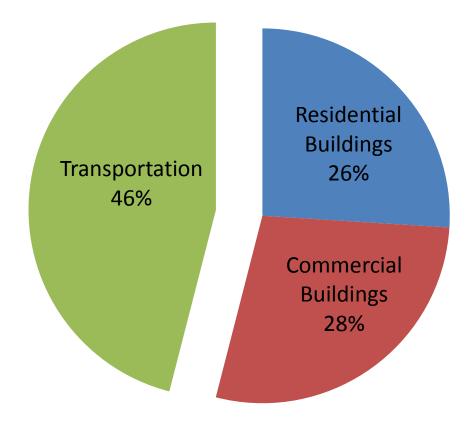


Building Energy Saving Ordinance: Accelerating Savings with Energy Information Disclosure

Berkeley City Council Workshop November 18, 2014

54% of Greenhouse Gas Emissions Come from Buildings



Update Process

- 1. Researched existing policies
- 2. Learned from Federal Stimulus funded Money for Energy Efficiency (ME2) Program
- 3. Broad community engagement
- 4. Looked at ways to prioritize high opportunity buildings to achieve savings
- 5. Conducted options analysis
- 6. Developed workflows & implementation plan

Update Provides New Approach

Current RECO CECO

- Must install minimum mandatory measures
- Required only when property sold or remodeled
- Status available by email

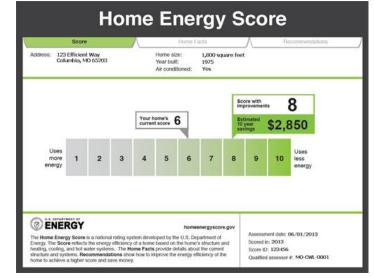
Energy Saving Ordinance

- No minimum measures
- Energy audits required for all buildings
- Energy information reported publicly
- Efficient buildings are exempt from audit provision
- On-ramp to rebates & incentives
- On-line compliance process and user-friendly compliance tracking

Energy Information

• Benchmarks & Scores

Energy and an	RGY STAR [®] Scorecar	d
86	Sample Property Primery Function: Office Gross Flaser Area (8 ¹⁷): 290,000	Property Addresse Sangda Propety 323 Main Store
ENERGY STARE Search	Bull: 1980 For Year Ending: April 30, 2013 Dute Generated: June 28, 2013	Arlington, Voyinia 23000



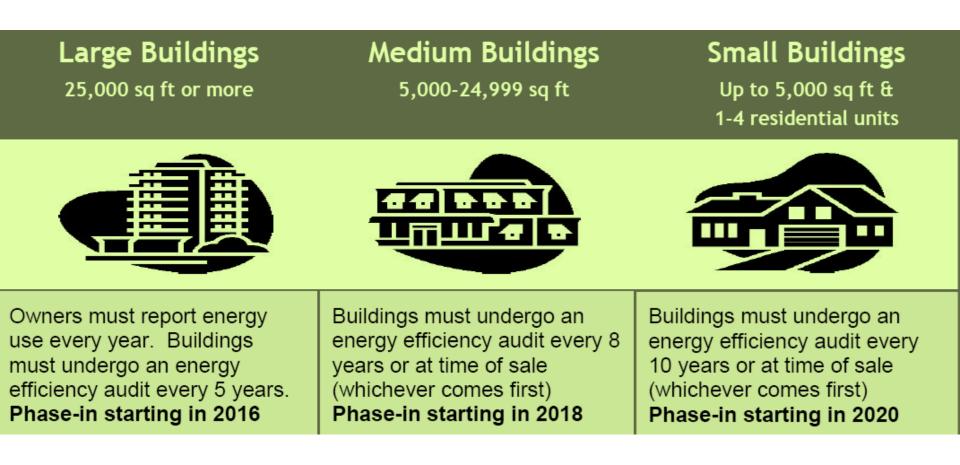
• Audit Reports

Energy Conservation Measure	Demand Savings (kW)	Annual Electricity Savings (kWh)	Annual Natural Gas Savings (therms)	Total Annual Cost Savings (\$)	Implementation Costs (\$)	Simple Payback before incentives (Years)	Potential Energy Incentives
Replace Incandescent and Halogen Lighting with	8.4	36,680		\$6,066	\$9,017	1.5	\$1,100

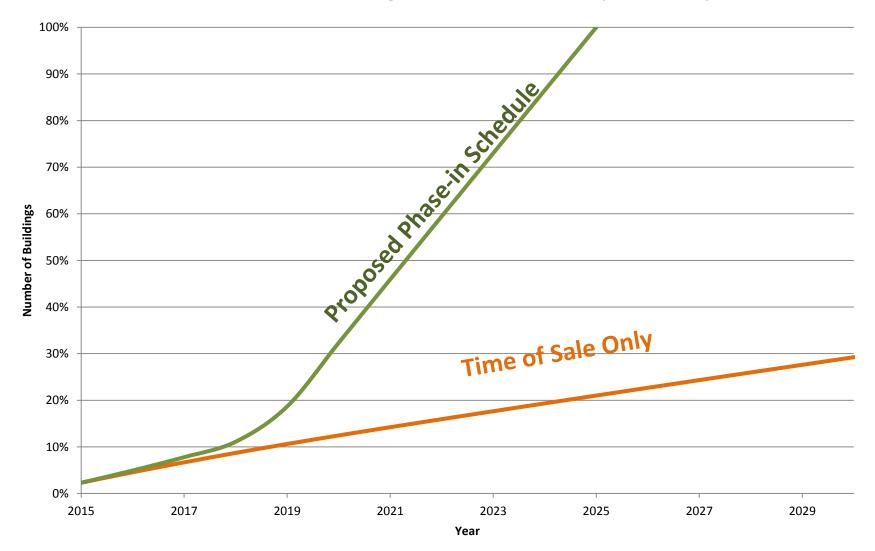
Benefits of Energy Information Reporting

- Shows property owners how to reduce energy costs & increase property values
- Provides building-specific recommendations to maximize efficiency, health, safety & comfort
- Identifies potential health & safety issues
- Teaches owners how to access valuable financing & incentive opportunities
- Motivates property owners to invest in energysaving improvements

BESO Requirements



Total Buildings under BESO Compliance Options



BESO Costs & Incentives

Building Type	Estimated Audit Costs (plus filing fee)	Incentives
Commercial	\$0.05 - \$0.20/sq ft	Smartlights free lighting audit Lighting fixture rebates HVAC rebates On-bill finance PACE finance
Multifamily	\$40 - \$300/unit	Smartlights free lighting audit BayREN free technical assistance Incentive up to \$750/unit PACE finance
Single Family (1-4 unit)	\$200 - \$600	Energy Upgrade incentive up to \$6,500 PACE Finance

Building Energy Saving Ordinance

- Motivates owners to invest in efficiency
- Leverages valuable resources
- Keeps money in the community
- Improves the value of efficient buildings

Billi Romain bromain@cityofberkeley.info (510) 981-7432

www.cityofberkeley.info/energyordinanceupdate