

Energy Efficiency in Existing Multifamily

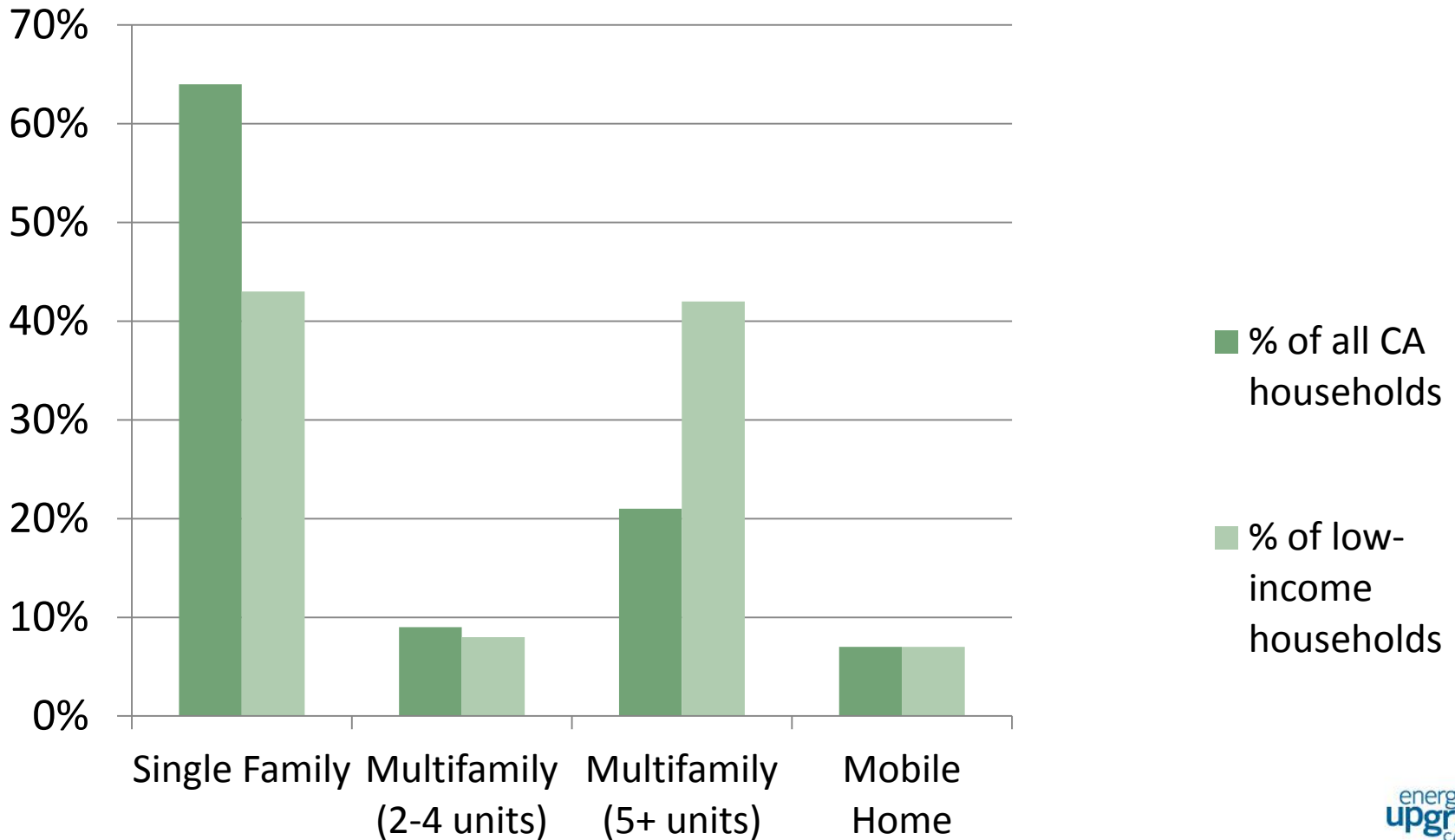
Sector Overview
Rebates & Resources



MULTIFAMILY
PROGRAM

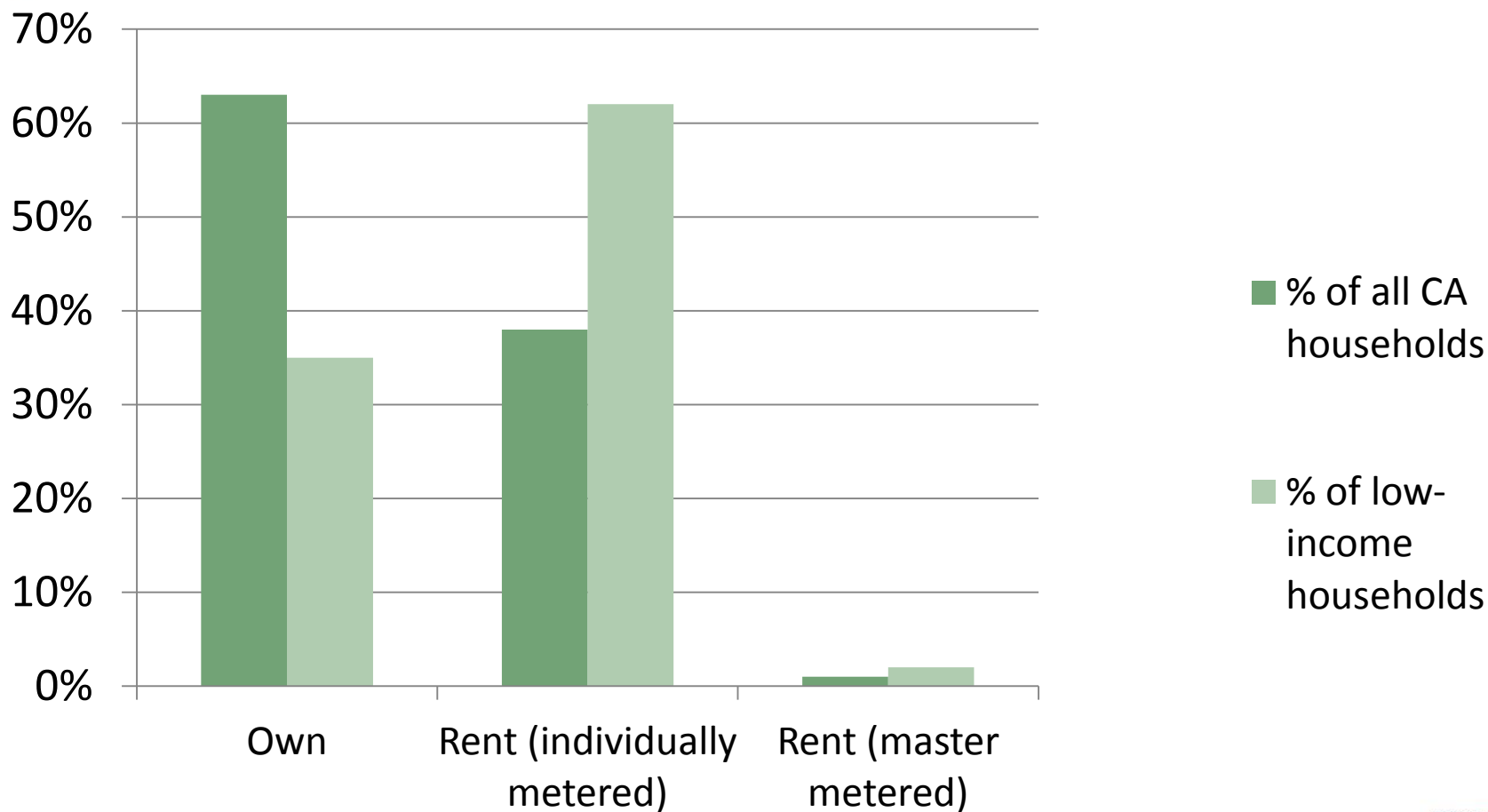
Distribution of CA Households by Dwelling Type

(Source: CPUC Strategic Plan, 2008)

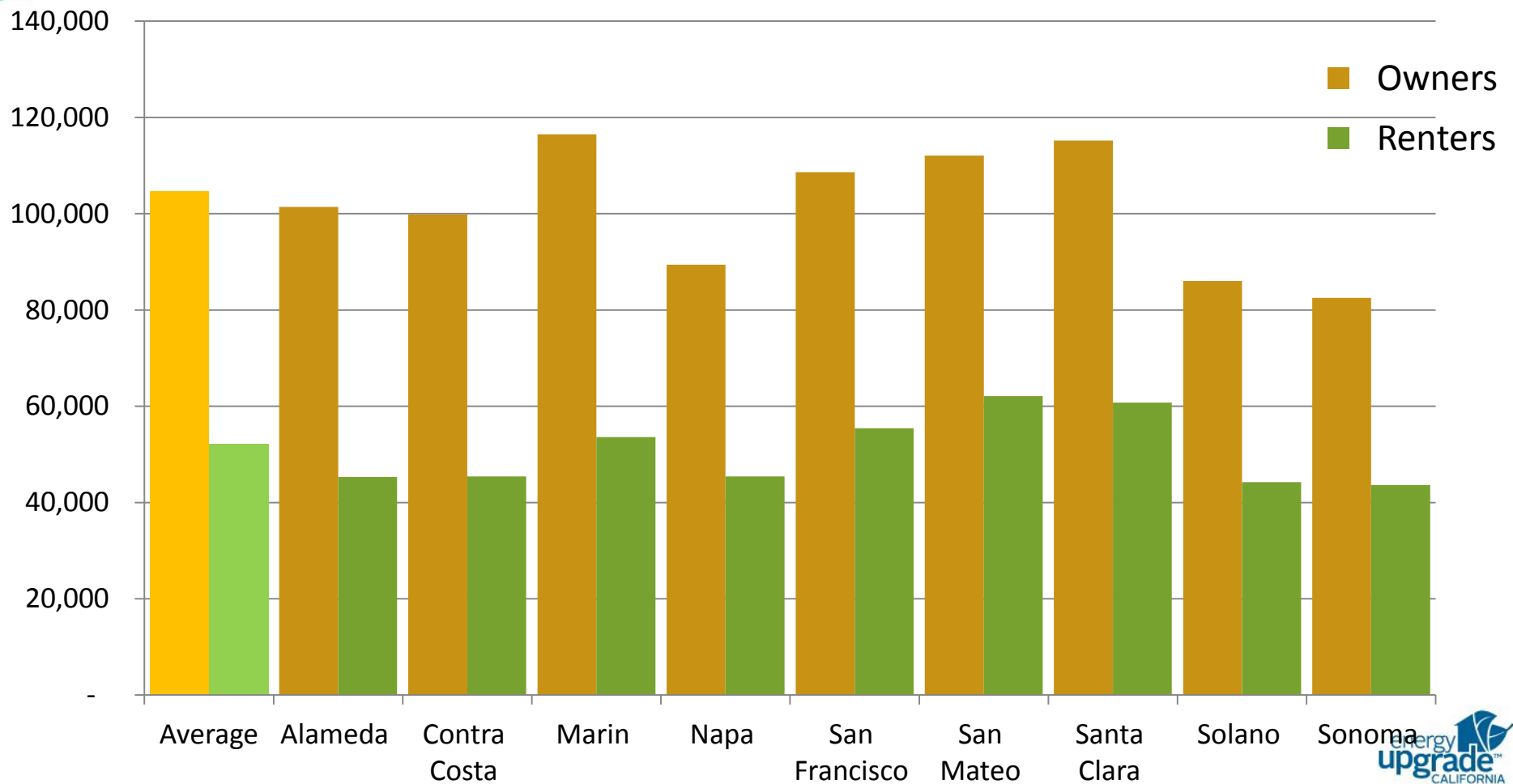


Distribution of CA Households by Ownership

(Source: CPUC Strategic Plan, 2008)

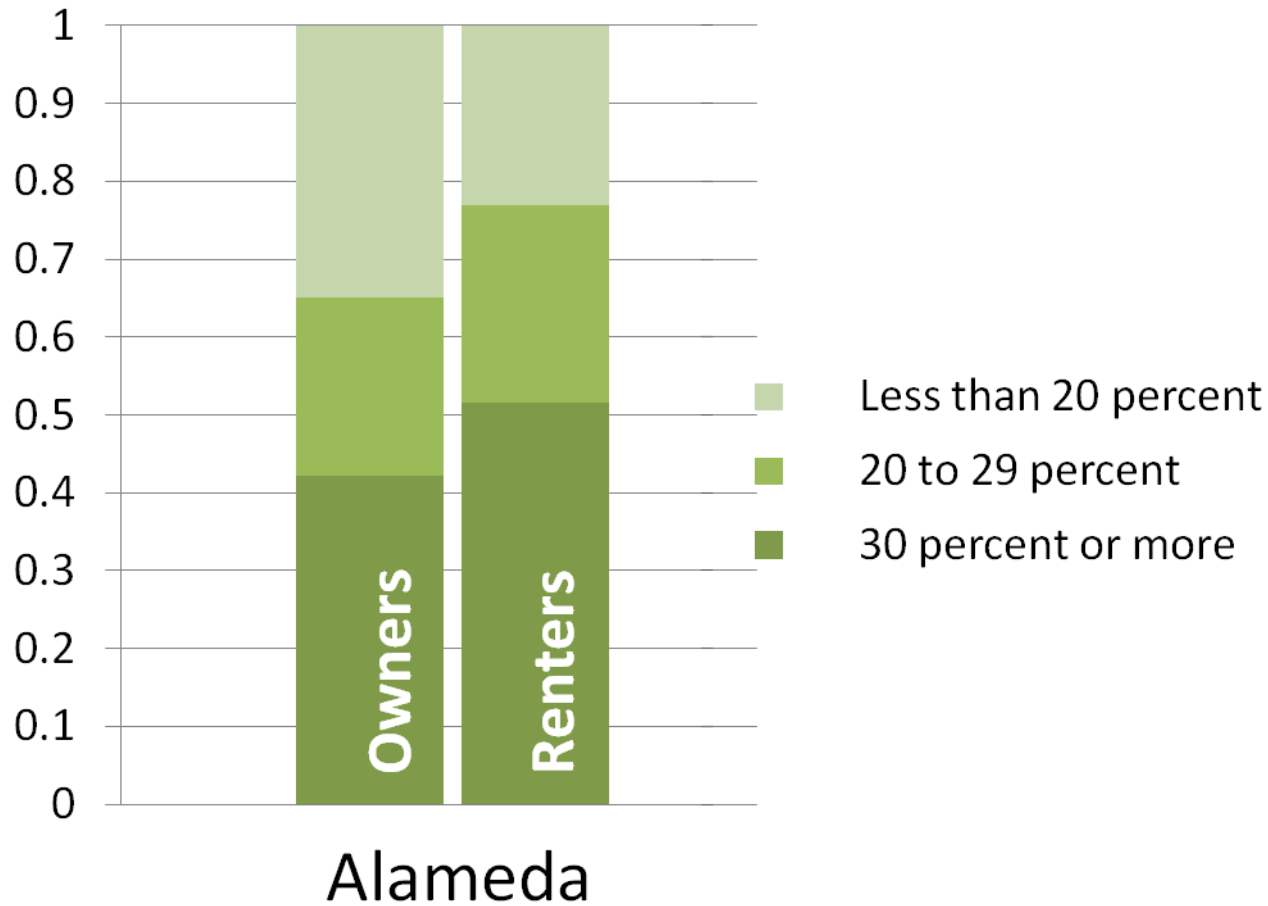


Average HH income - Owner vs. Renter



Source: U.S. Census

% of household income on housing



Source: U.S. Census

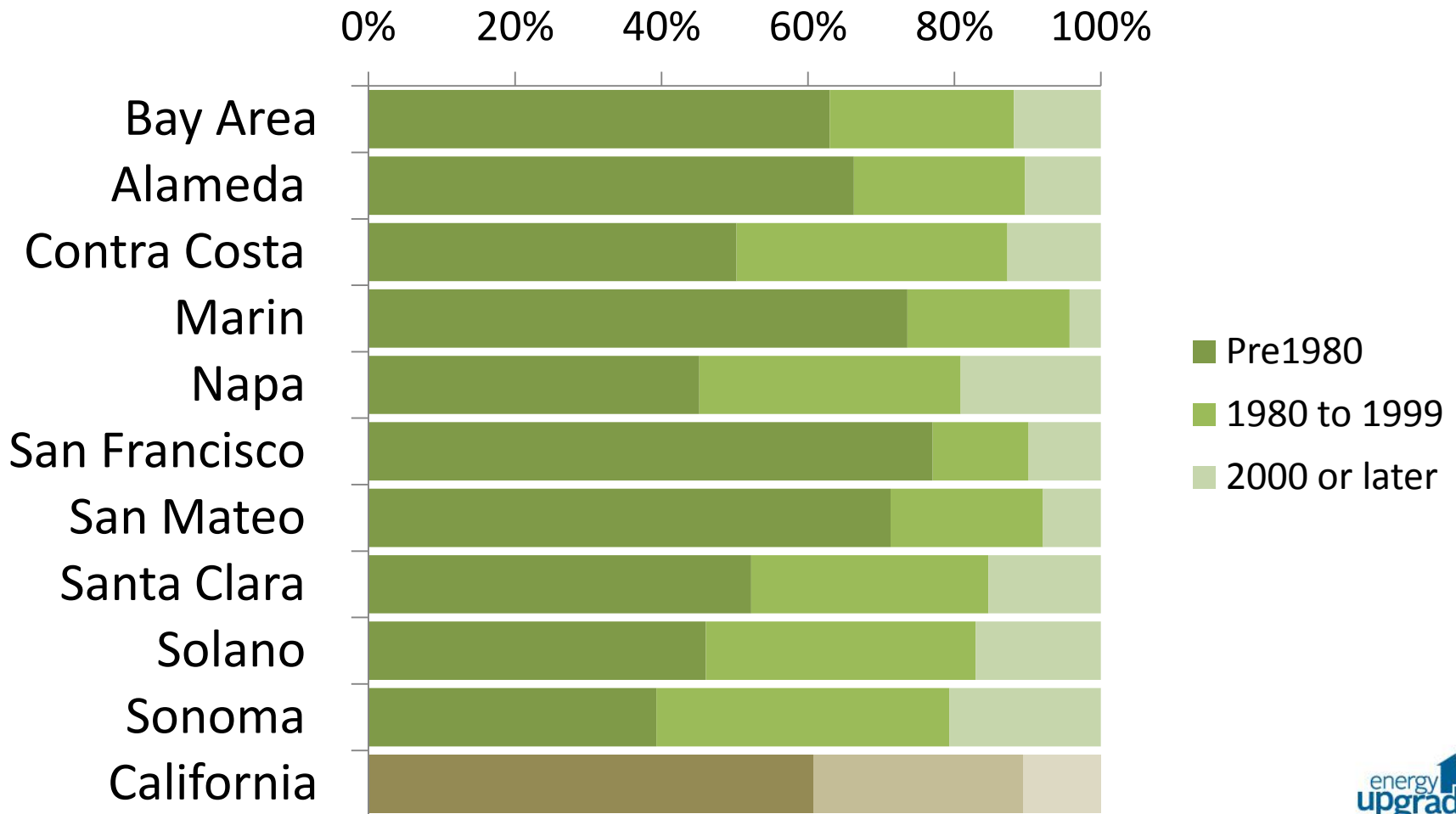
Multifamily Challenges

- Diverse building types & ownership structures
 - Requires customized approach
- Split incentives
 - Rating system and disclosure can help overcome
- Poor access to utility data
 - Whole building aggregated data needed

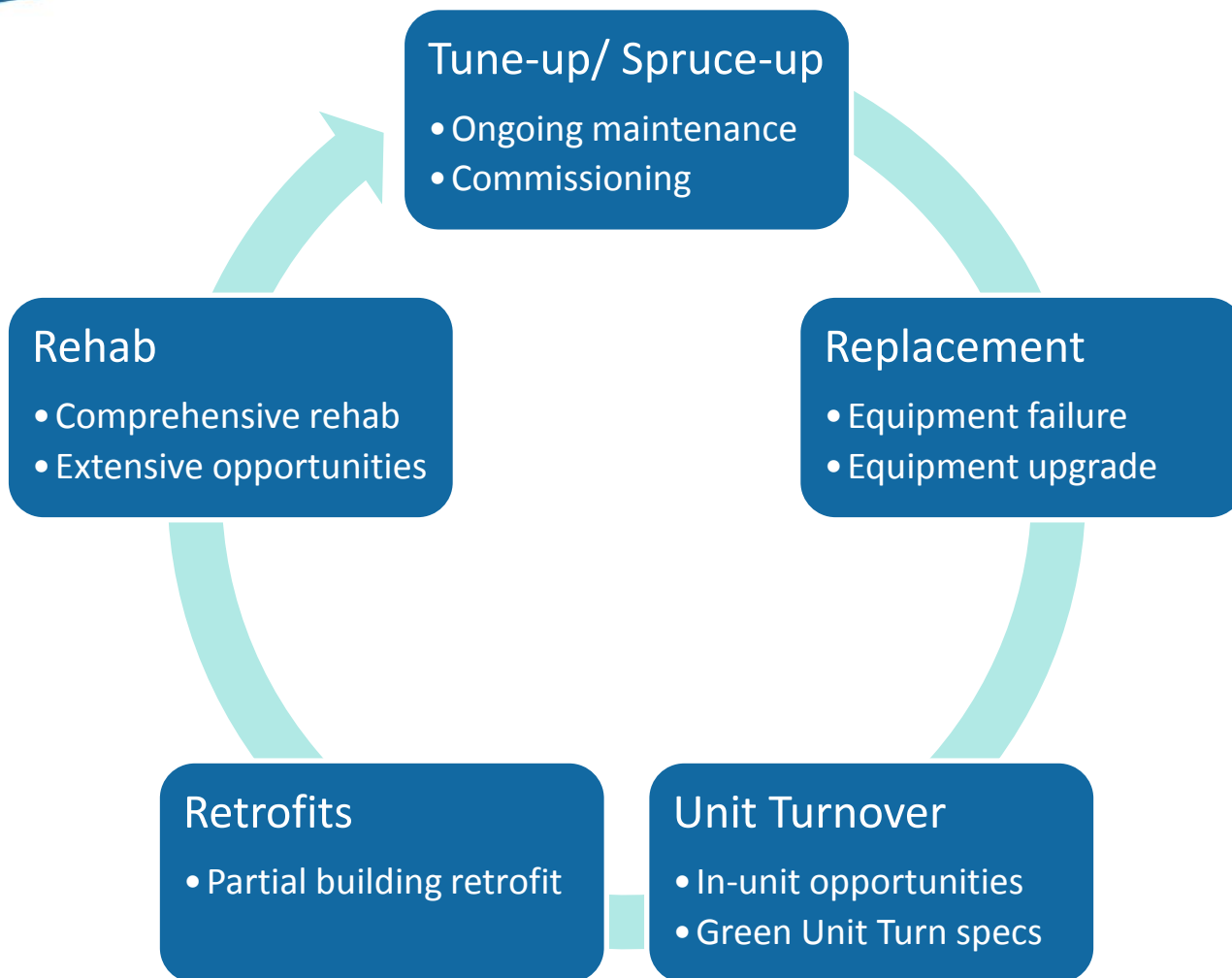
Multifamily Opportunities

- Economies of Scale
- Majority built before energy code
- Trigger events

Multifamily (5+) Vintages



Multifamily Trigger Events



Multifamily Whole Building Approach

- HVAC
- Domestic Hot Water
- Enclosure
- Lighting
- Appliances
- Pools
- Related Measures:
 - Water
 - Renewable energy
 - Green building upgrades
- Multiple Measures
- Performance Based (% energy savings)

Ratepayer Funded Multifamily Programs

Program Name	In-Unit	Common Area	Central Systems	Solar
Bay Area Multifamily Building Enhancements	✓	✓	✓	
PG&E Whole Building	✓	✓	✓	
PG&E Multifamily Energy Efficiency Rebates	✓	✓	✓	
MCE Multifamily	✓	✓	✓	
PG&E Energy Savings Assistance	✓			
PG&E Mid-Income Direct Install	✓			
Local Energy Watch		✓		✓
California Solar Initiative				✓

Ratepayer Funded Financing Pilots

Program Name	Repayment Mechanism	Limitations
On-bill Financing	PG&E	Commercial meters \$100K; 5 yr payback
On-bill Repayment	PG&E	<i>Pilot for master metered affordable housing</i>
Pay As You Save	Water utility	Limited locations
Property Assessed Clean Energy	Property tax	Pays property taxes
Bay Area Multifamily Low-Interest Loan	Traditional loan	Lender must agree



Bay Area Regional Energy Network

- 2 RENs: Bay Area & SoCal
- Collaboration of 9 counties
- Approved in Nov 2012
- Ratepayer funded programs
- Builds on stimulus funded program successes



Bay Area Multifamily Building Enhancements

Cash Rebates

- Whole-building rebates at \$750 per dwelling unit
- In-unit and common area improvements eligible
- Choose your own contractors

Free Energy Consulting

- Free energy usage analysis and site visit
- One-stop-shop to connect with incentives & programs

Low-interest Financing

- Effectively brings interest rate down by half
- Open lender market; requires lender participation

Bay Area Multifamily Building Enhancements

Eligibility Criteria

- 5+ attached dwelling units
- Located in 9 county Bay Area
- PG&E service
- Rebate upgrade scope to be approved through free consulting
 - Must save 10% or more on whole building basis
 - Must install multiple improvements



Contact Us

Bay Area Regional Energy Network Multifamily Programs

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