

City of Carlsbad
Climate Action Plan – Energy
Efficiency Ordinances

BayREN Regional Forum
September 18, 2019

Presentation Outline

- CAP goals and requirement
- Ordinance development scope of work
- CEC cost-effectiveness study
- Ordinance requirements
- Implementation strategy
- Public outreach
- Key takeaways



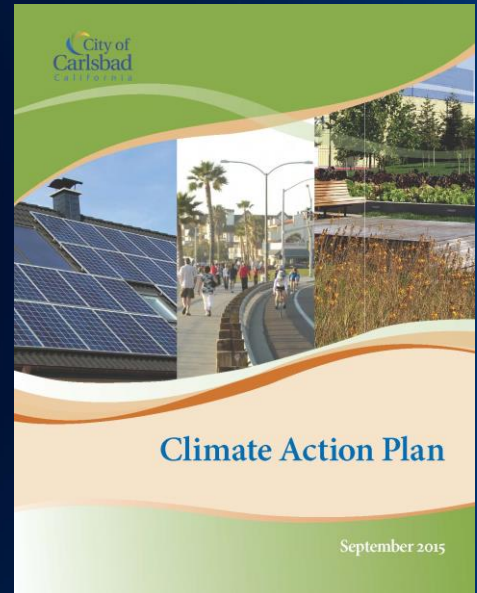
- Incorporated 1952
- 115,000 population
- 40 sq. mi. area
- 30 miles north of San Diego
- 46,000 dwelling units





Climate Action Plan

- Approved in 2015
- 15 Measures with 41 Actions
- Strategy areas:
 - Energy efficiency
 - Renewable energy
 - Transportation
 - Water
 - Public outreach and education



Energy Efficiency Goals and Requirement

- Single and multi-family residential
 - 50 percent reduction in 30 percent of dwelling units by 2035
- CAP Actions
 - Promote energy efficiency
 - Adopt an ordinance requiring energy efficiency measures in major renovations

EE Ordinance Scope of Work

- High-level summary and examples of ordinances from other jurisdictions
- Potential parameters for ordinance applicability, requirements and energy efficiency measures
- Ordinance development and CEC cost-effectiveness processing
- Design public outreach and education program

CEC Cost-Effectiveness Study

- Coordinated and funded through Statewide Codes and Standards Program
- Frontier Energy and Misti Bruceri & Assoc. expanded 2017 Chico study to cover all climate zones
- EE measures highly constrained in Climate Zone 7
 - Necessitated changing strategy to reach CAP goals

EE Ordinance Requirements

Measure	Single Family Vintage	Multi-family Vintage
Water Heating Package	All	All
Lighting Package	All	All
Ducts	Pre-1978	Pre-1991
Attic Insulation	Pre-1978	Pre-1978
Cool Roof	Pre-1978	Pre-1991

33% of existing housing stock constructed pre-1978

Pre-1978 (SF) and pre-1991 (MF) homes not eligible for water heating or lighting packages

Implementation Strategy

- Major renovation defined as building permit valuation over \$60,000
 - Existing threshold for other requirements
 - Substantial remodels or additions
- Focus on educational opportunity
 - Offer exemption for energy efficient homes
 - Use Dept. of Energy Home Energy Score
 - City-sponsored to encourage participation
 - Additional coaching and follow-up surveys

DOE Home Energy Score



Home Energy Score



ASSESSMENT: Official | April 01, 2017 | ID# 1234567

The U.S. Department of Energy's Home Energy Score assesses the energy efficiency of a home based on its structure and heating, cooling, and hot water systems. Learn more at homeenergyscore.gov.



Public Outreach

- Mailings to key stakeholders and past permit applicants
- Meetings with BIA and local developers
- Notices at Building Dept. permit counter
- Press releases
- Dedicated webpage

Key Takeaways

- Helpful to include mandate for reach code in policy document
- Consult early with Codes and Standards team
- Be flexible and creative
- Cost-effectiveness study helps with outreach
- Coordinate early with permit processing
- Maintain enthusiasm!

Pertinent Links

- Carlsbad residential EE ordinance
<https://www.carlsbadca.gov/services/depts/pw/environment/cap/energyres.asp>
- Carlsbad CAP ordinances
<https://www.carlsbadca.gov/services/depts/pw/environment/cap/ordinances.asp>
- Statewide Codes and Standards Program
<https://localenergycodes.com/>

Thank you!



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