

Outline

- o Introduction: What is Green Building?
- o Aspects of Green Building
- o California Leading the Way
- o What is Lomita doing?



Introduction

- o Buildings account for one third of U.S. energy consumption
- o Green building emphasizes the lifetime benefits and savings over the up-front costs



Source: www.delcobuilders.com

Green Building Goals

1. Conserve Water
2. Conserve Energy
3. Conserve Natural Resources
4. Divert Waste from Landfills
5. Minimize Impacts to Existing Landfills
6. Promote a Healthier Natural and Indoor Environment



Aspects of Green Building

1. Land Use/Community-level Design
2. Construction
3. Building Design
4. Landscape Design



Source: www.usgbc.org

Aspects of Green Building

o Land Use/Community Level Design

- Higher density, clustered development
 - Safe for pedestrians, public transit friendly
- Low Impact Development
 - Reduce runoff by reducing impervious areas

o Construction

- Recycling of materials on the construction site
- Deconstruction, not demolition



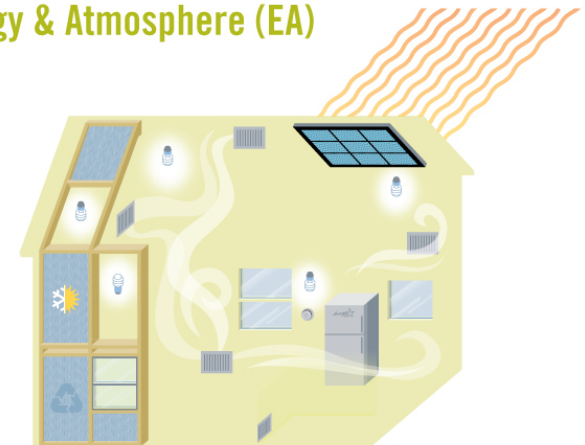
Source: www.usgbc.org

Aspects of Green Building

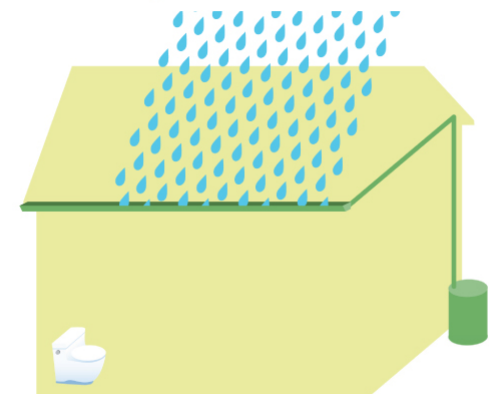
o Building Design

- Energy Efficiency:
 - Efficient lighting, appliances, e
 - Renewable energy
- Water Efficiency:
 - Low flow faucets, toilets, etc.
- Use of recycled and renewable materials

Energy & Atmosphere (EA)



Water Efficiency (WE)



Source: www.usgbc.org



Aspects of Green Building

o Landscape Design

- Drought tolerant and native plants
- Efficient watering
 - Smart irrigation
 - Hydrozones
 - Recycled water
- Limit percentage of turf



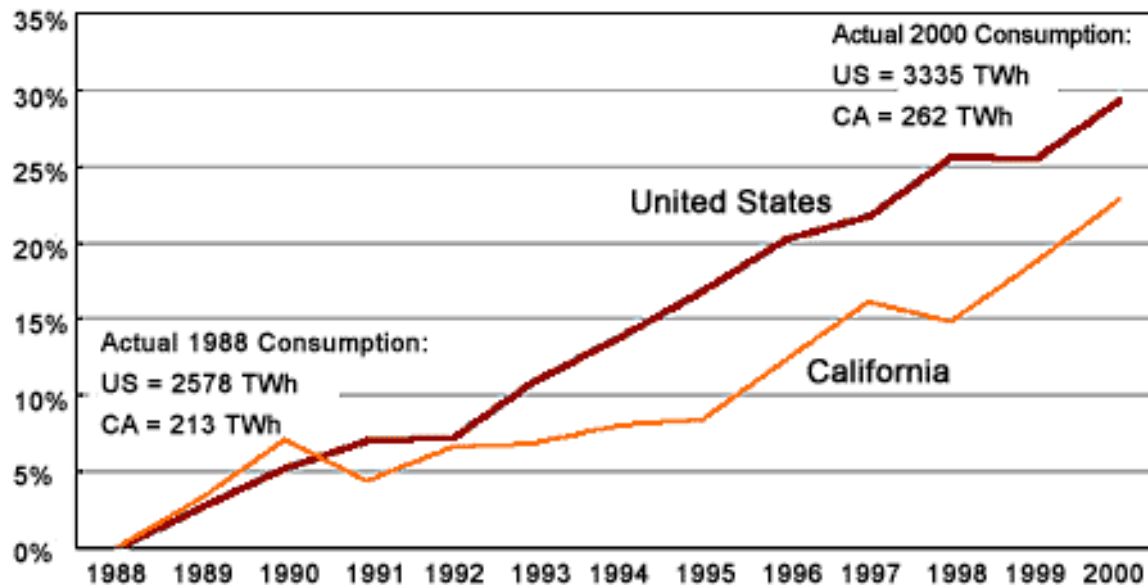
Source: bewaterwise.com

Where is California at?

o Title 24: The State's Building Code

Percent Increase in Electricity Consumption for US and California (1988-2000)

Percent Increase Over 1988 Level



Source: lbl.gov, Lawrence Berkeley National Laboratory, US Dept. of Energy



Where is California at?

o AB32

- Establishment of a statewide greenhouse gas emissions cap by 2020

o SB375

- Aims to reduce personal automobile use by addressing land use and planning issues



What is Lomita Doing?

- o Created an Environmental Advisory Committee
 - Established by Council Resolution in 1/2008
 - Comprised of different departments to spear environmental projects.
 - Signed the Mayors Climate Protection Act



What is Lomita Doing?

- o Joined ICLEI to calculate carbon footprint
 - March 2009: Completed carbon footprint calculations for all government operations.
- o Next steps:
 - Create a report presenting the results of the carbon footprint analysis.
 - Use results to pinpoint areas where Lomita most needs to cut emissions.
 - Conduct a community wide carbon footprint analysis.



Progress Towards a Greener City

- o Installed a new cool roof on city hall
- o Tinted all windows
- o Installed tank-less water heaters
- o Use LED traffic signals
- o Replaced all incandescent bulbs with fluorescent bulbs



Progress Towards Water Conservation

- o Participated in several grant programs through WB
 - Replaced all toilets in public facilities
 - Replaced all faucets
 - Replacing all sprinkler heads
 - Received a grant to build Lomita's first drought tolerant garden

