

# Outline

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



# Introduction

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- 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](http://www.delcobuilders.com)

# Green Building Goals

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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

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



Source: [www.usgbc.org](http://www.usgbc.org)

# Aspects of Green Building

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## 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



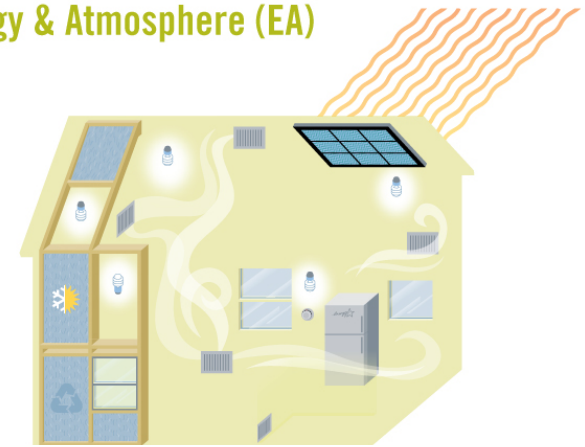
Source: [www.usgbc.org](http://www.usgbc.org)

# Aspects of Green Building

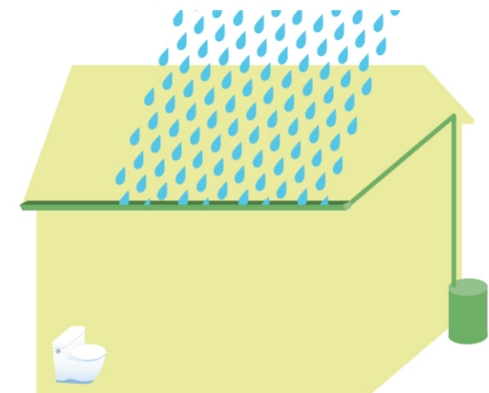
## o Building Design

- 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](http://www.usgbc.org)



# Aspects of Green Building

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## o Landscape Design

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



Source: [bewaterwise.com](http://bewaterwise.com)

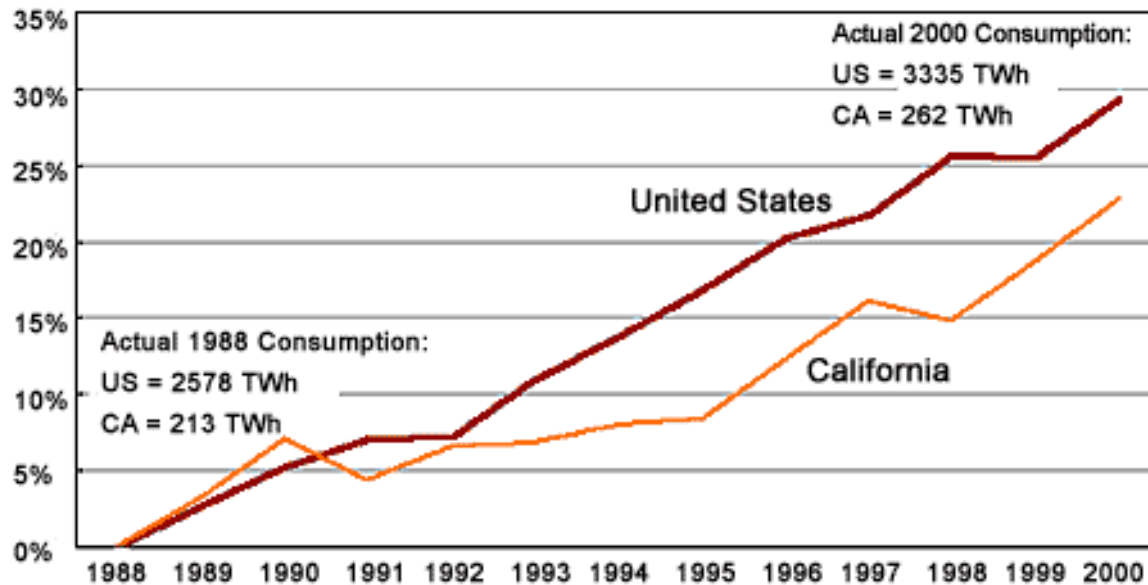


# Where is California at?

## 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](http://lbl.gov), Lawrence Berkeley National Laboratory, US Dept. of Energy



# Where is California at?

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## 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?

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- 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?

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- 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

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- 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

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- 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

