# California's Green Economy

#### **California Green Workforce Coalition**

July 9, 2010

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## Understanding the Green Economy

#### What is California LMI Doing/Planning?

- Collaborating to expand knowledge
  - Federal/state/local research partners
  - State and local workforce partners
  - Control entities and utilities bringing about climate change
- Responding to state and national information needs
  - Sharing knowledge across agencies and geographic areas
  - Hosting a shared "green web page" <a href="http://www.labormarketinfo.edd.ca.gov/?pageid=1032">http://www.labormarketinfo.edd.ca.gov/?pageid=1032</a>
- Surveying California businesses to establish baselines of green employment and green business practices
- Conducting and publishing career research to support workforce development

## Our Working Definition of Green Jobs

Green jobs produce ("supply") goods or services that result in:

- ■Generating and storing renewable energy
- Recycling existing materials
- Energy efficient product manufacturing, distribution, construction, installation, and maintenance
- Education, compliance and awareness
- Natural and sustainable product manufacturing

For the complete definition see:

http://www.labormarketinfo.edd.ca.gov/contentpub/GreenDigest/Californias-Draft-Definition-Green-Industries.pdf

#### Sustainable Practices Increase Demand

#### Important caveat...

- LMID's green jobs definition focuses on the "supply" side
- Sustainable business practices (the "<u>demand</u>" side) are equally important to California's green economy
- Demand leads to pressure for additional supply of products and services
- Survey covers "supply" and "demand" separately

## Green Economy Survey Details

- Completed January 2010
- Surveyed businesses across the California economy; all industries, all sizes, all areas
- Creates a baseline measure of:
  - Number of workers in green or clean product manufacturing and/or services
  - Number of businesses that have adopted green practices
  - Emerging occupations for further study related to skills and workforce needs
- Partners include Community Colleges, Air Resources Board, California Energy Commission, California Workforce Investment Board, Economic Strategy Panel, Employment Training Panel, and others

## California's Survey Results

- Nearly 15,200 employers responded
- 7.9 percent of employers report employees working on green products and services
- About 3.4 percent of all California workers are working on green products and services (433,000)
- About 61% of green workers spend more than half time on green aspects of job (263,000)
- 57 percent of employers report using at least one green business practice
- 78% of current green workers were trained on the job

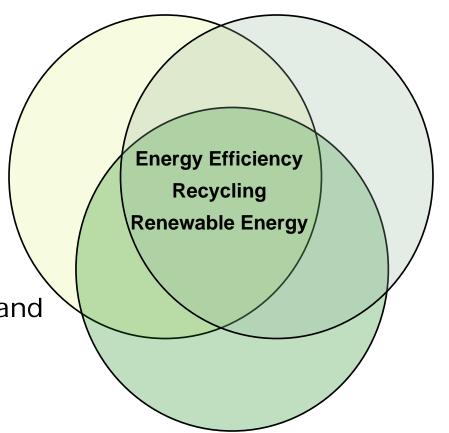
# Comparison to Other States' Green Workforce Surveys?

Green jobs as a percent of total employment

California	3.4%
Washington	3.3%
Oregon	3.0%
Michigan	3.0%

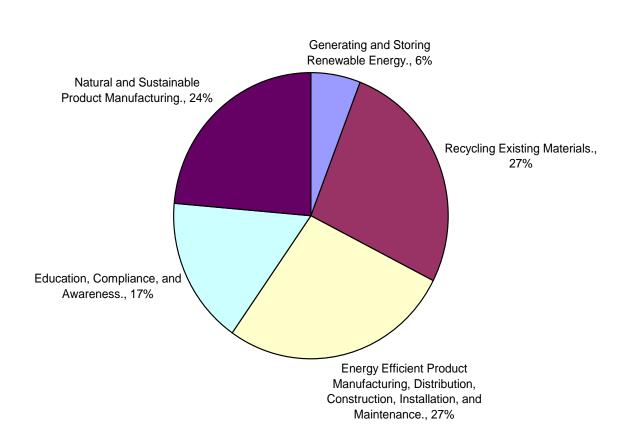
Caveat...Definitions vary somewhat between states...

 Renewable energy, recycling, and energy efficiency are in each states definition



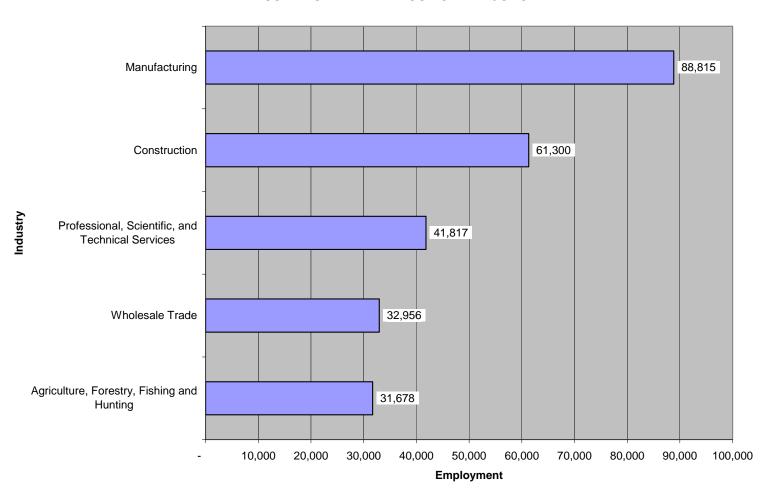
## Green Workers Reported

#### PERCENTAGE OF EMPLOYEES IN GREEN CATEGORIES

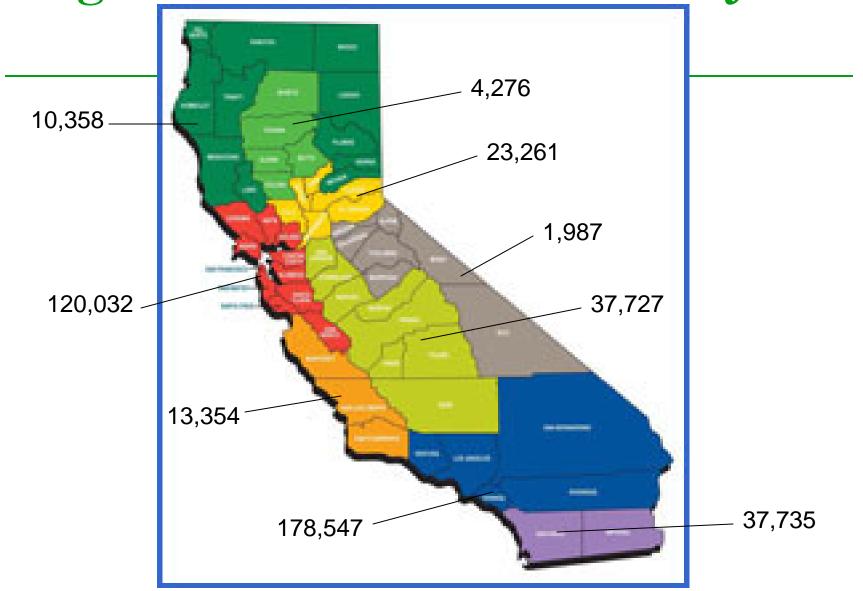


## Industries with the Most Green Jobs

#### INDUSTRIES WITH THE MOST GREEN JOBS

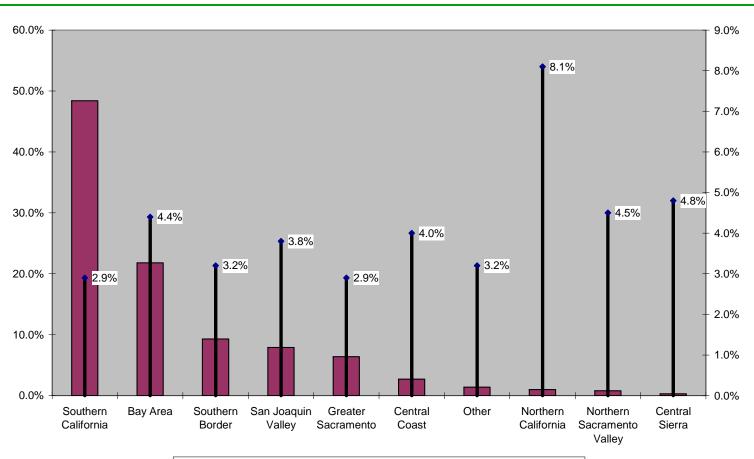


Regional Distribution of Green Jobs



## Share of Green Jobs by Region

#### PERCENTAGE OF GREEN JOBS TO ALL JOBS BY REGION



■ Region's Share of All Jobs in the State ◆ Share of Region's Jobs That are Green

## Top Industries in Southern California

## **G**enerating and Storing Renewable Energy

- Utilities
- Professional, Scientific and Technical Services
- Wholesale Trade

#### **Recycling Existing Materials**

- Manufacturing
- Administrative and Support and Waste Management and Remediation Services
- Wholesale Trade

# Energy Efficient Product Manufacturing, Distribution, Construction, Installation and Maintenance

- Construction
- Manufacturing
- Retail Trade

## Education, Compliance, and Awareness

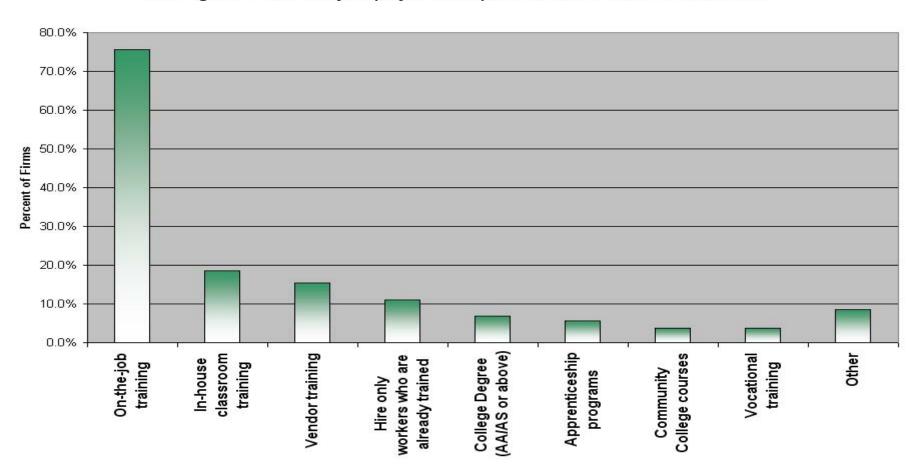
- Educational Services
- Transportation and Warehousing
- Public Administration

## Natural and Sustainable Product Manufacturing

- Manufacturing
- Wholesale Trade
- Administration and Support and Waste Management and Remediation

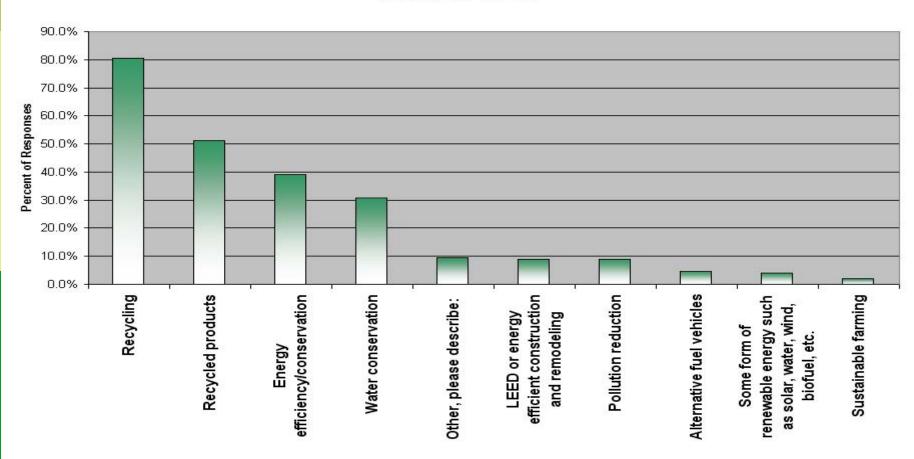
### Preparation of Current Green Workers – OJT!

#### Training Methods Used by Employers to Prepare Current Workers for Green Jobs

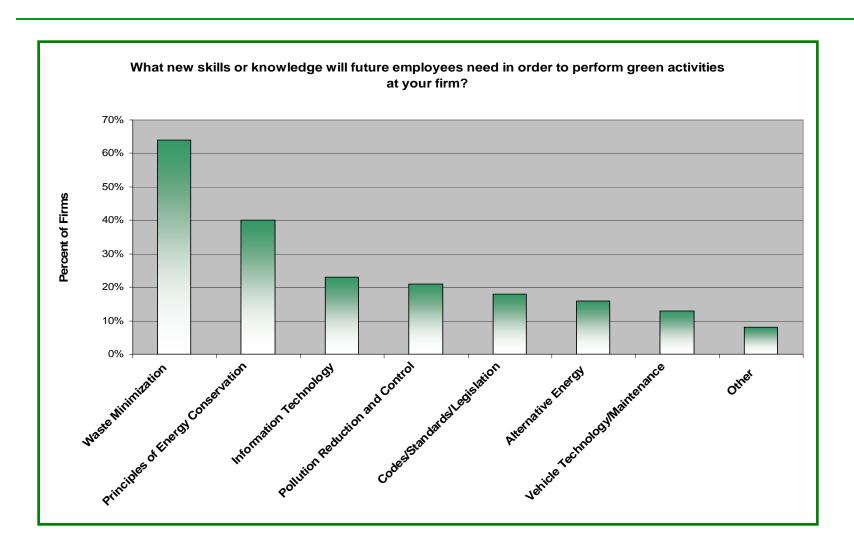


#### Sustainable Business Practices

If your business makes use of green practices, services or products, what does your firm currently USE on site

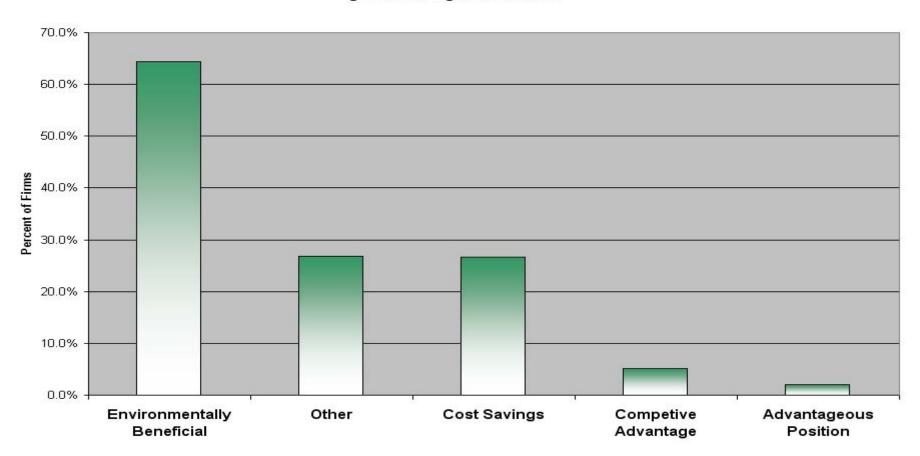


#### **Business Practice Skill Needs**



### Sustainable Practices - Benefits

What do you view as the largest benefit to your business in taking steps to reduce greenhouse gas emissions?

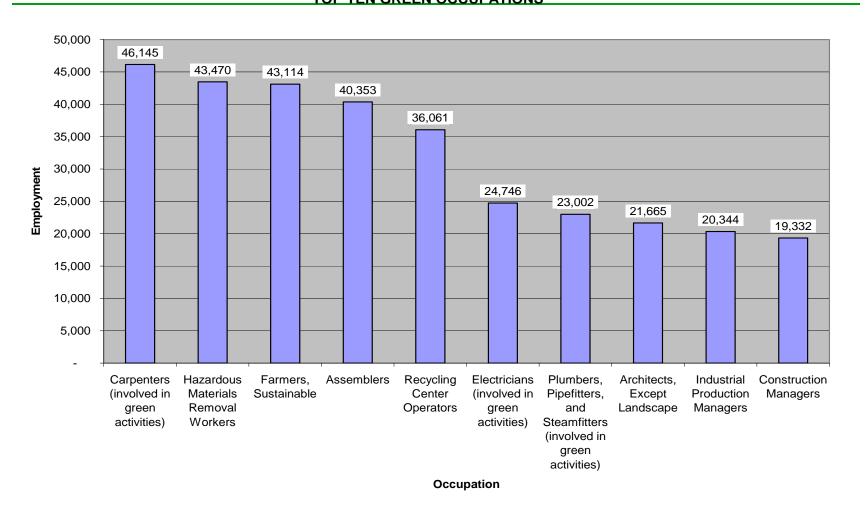


## Occupational Findings

- □ Green workers in 34 listed green jobs—503,000 reported\*
- Additional write-ins--"Other Green Job Titles"—50,000 reported\*
- Examples of write ins—include:
  - Warehouse Recycling Manager
  - LEED Accredited Professionals
  - Environmental Health and Safety Managers
  - Alternative fuel vehicle infrastructure engineers
  - Fleet manager (alternative fuel vehicles)
  - Transportation program specialist
  - Battery recyclers
- Greater detail will be collected in a subsequent occupational skills research during 2010-2011.

\*Note: Occupational survey includes workers that do not meet the "product and services" definition, but are green workers—examples, sustainability planner, construction workers for a school district that occasionally maintain solar heater or other sustainable equipment for the school's facilities, recycling manager for a business, etc.

## Top Green Jobs



## Next Steps

- Review findings with key players
- Finalize summary report
- Regional reports as warranted by the data
- Industry-level reports as warranted
- Detailed occupational follow-up and analysis
- Report on occupational skills and workforce development needs

#### Additional Resources and Information

Green Job Activities by State

http://www.labormarketinfo.edd.ca.gov/article.asp?articleid=1238

Workforce Information Council Green Jobs Study Group

http://www.workforceinfocouncil.org/Documents/WICGreenJobsStudyGroupReport-2009-10-01t.pdf

ETA Green Jobs Community of Practice

http://greenjobs.workforce3one.org/

Bureau of Labor Statistics plans to measure the green economy—comments due August 30, 2010

http://www.bls.gov/green/

# Questions?

### Feel free to get in touch!

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