

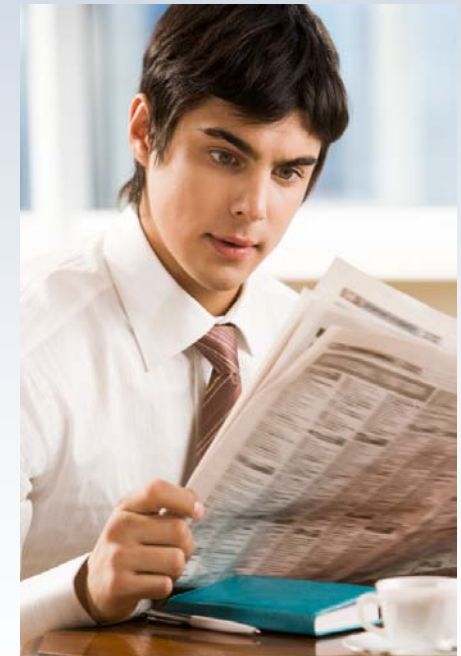
# **Update on Implementation of California's AB 32 Climate Change Scoping Plan**

**Butte County Air Quality Management District  
May 27, 2010**

**Virgil Welch  
California Air Resources Board**

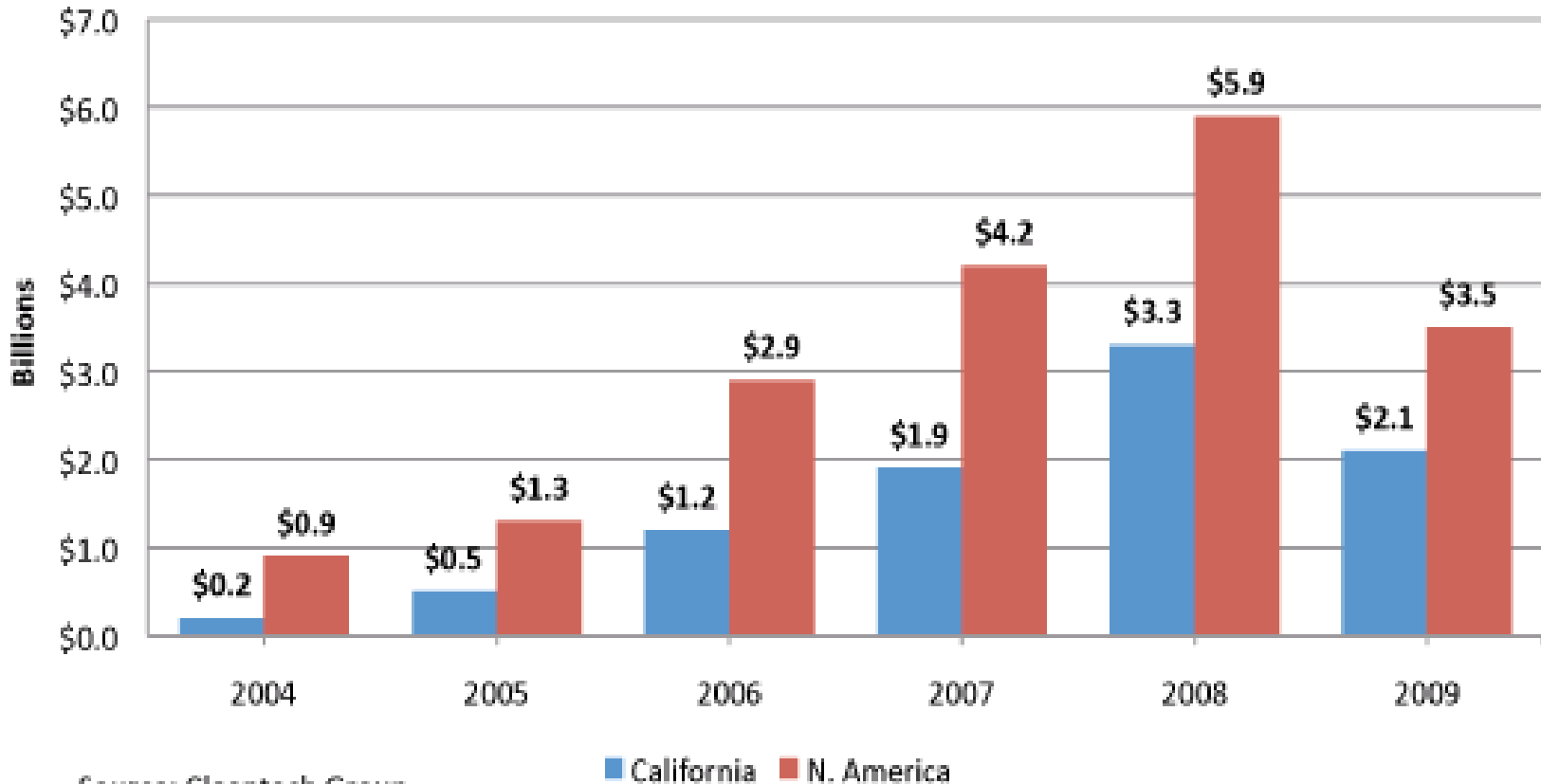
- California is on track to a low carbon economy
  - Investment in clean technology
  - Growth in green business
  - Increase in green jobs
  - Increase in renewable energy generation capacity

(Source: Next10)



# Investment in Clean Technology

Cleantech Venture Investments  
California and North America



Source: Cleantech Group

■ California ■ N. America

# Green Jobs Statewide

- More than 300,000 people spend at least half their time on the job focused on green products or services, according to a new state Employment Development Department (EDD).
- In addition to the 300,000 jobs, another 171,000 jobs are held by employees who spend at least part of their time on green products and services.
- Survey that drew responses from nearly 15,500 employers.

[http://www.edd.cahwnet.gov/about\\_edd/pdf/nwsrel10-10.pdf](http://www.edd.cahwnet.gov/about_edd/pdf/nwsrel10-10.pdf)

# Butte County Businesses

Alternative Energy Systems, Inc. Bidwell Builders  
Chico Electric Eco Advantage Solar Inc.  
Energy Calculation Services Evergreen Development  
FAFCO Incorporated Foothill Associates  
HH&H Enterprises Kerner Industries  
New Urban Builders, Inc. North Valley Solar  
NorthStar Engineering Norton Construction  
Power Shacks, Inc. Pierce Consulting  
RA Power Solar & Electric Shastan Homes Inc.  
Site Constructors, Inc. Sun Valley Solar  
Spring Board Biodiesel Sierra Nevada Brewing  
Windhaven Construction

# Chico Sustainability Vision



“In 2030, Chico is a sustainable community that maintains a balance between the environment, the economy, and social equity. Chico’s compact land use pattern, transportation and energy choices, green building practices, technological advancements, and sustainability policies have reduced environmental impacts and greenhouse gas emissions. Chico’s economy is thriving with an ample supply of jobs, including those in green businesses.”

[www.chico.ca.us/government/minutes\\_agendas/documents/4-19-10STFAgendaw-attach.pdf](http://www.chico.ca.us/government/minutes_agendas/documents/4-19-10STFAgendaw-attach.pdf)

# Next Generation Leading the Way

- **Chico State Listed as One of Greenest Colleges in Princeton Review Report**
  - **Sac Bee, May 8, 2010:** “The campus has three LEED buildings and an array of solar panels that generate clean energy. It has developed engineering programs that teach students about renewable energy, sustainable construction and biodiesel.”
- **Butte College Honored for its Sustainability Efforts**
  - **EPA's Green Power Partnership:** Butte College was the only educational institution recognized. The college has set a goal of becoming “climate neutral” by 2015 by continuing to expand its on-site solar electricity generation.

# Implementation of AB 32

- **AB 32:** Reduce GHG emissions to 1990 levels by 2020; set California on course to be a leader in global transition to clean energy economy
- **Scoping Plan:** Comprehensive set of strategies for energy efficiency, cleaner vehicles and fuels, renewable energy, and sustainably planned and healthier communities
- Many strategies already in place and others to be implemented over coming years

## AB 32 Implementation: Scoping Plan

Energy Efficiency

Renewable Energy

Clean Cars

Low Carbon Fuels

Sustainable Communities

Market-Driven Reductions

# AB 32 Scoping Plan

- Energy Efficiency
  - California's building efficiency standards (along with those for energy efficient appliances) have saved more than \$56 billion in electricity and natural gas costs since 1978. It is estimated the standards will save an additional \$23 billion by 2013 – Calif. Energy Commission
- Renewable Energy
  - 33% by 2020. ARB currently working on proposal to support acceleration of clean, affordable, and secure sources of renewable energy.

# AB 32 Scoping Plan

- Clean Cars
  - Working with Federal EPA and DOT on new standards for cleaner, more efficient vehicles
    - Current standards save consumers \$30 month
      - <http://www.driveclean.ca.gov/index.php>
- Low Carbon Fuels
  - Reduce carbon intensity of CA's transportation fuels by 10 % by 2020; transition away from price volatility

# AB 32 Scoping Plan

- Sustainable Communities
  - ARB working with local governments & MPOs to develop sustainable community strategies under SB 375
  - \$90 million of Proposition 84 funds will support local government efforts. Working to identify additional resources.
- Market-Driven Approach
  - ARB developing market-based approach to drive sustained and long-term GHG reductions, incentivize investment in clean technologies and innovation

# AB 32 Scoping Plan

- Economic Assessment
  - ARB updated Economic Analysis of Scoping Plan in March, 2010. Worked closely with EAAC Committee, experts in finance, economics, and policy design.
  - ARB analysis consistent with other credible economic analyses
  - Transition to cleaner, more efficient economy can go hand in hand with continued economic growth.
  - Important to design policies cost-effectively, flexibly, and in ways that position California businesses to be competitive in emerging global clean energy marketplace

# Thank You

## Questions/Comments

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