

THE  
**PEW**  
CHARITABLE TRUSTS

2005 MARKET STREET SUITE 1700 PHILADELPHIA PA 19103-7077

901 E STREET NW 10<sup>TH</sup> FLOOR WASHINGTON DC 20004-1409

T 215.575.9050

T 202.552.2000

F 215.575.4939

F 202.552.2299



# The Clean Energy Economy

Repowering Jobs, Businesses and Investments Across America



## Pew's study is...

- the first-of-its-kind hard count of the jobs, businesses and investments in the U.S. Clean Energy Economy
- the first-ever state-by-state analysis of the Clean Energy Economy over time (1998-2007)
- offers a clear definition and framework on the Clean Energy Economy



## THE CLEAN ENERGY ECONOMY—A DEFINITION

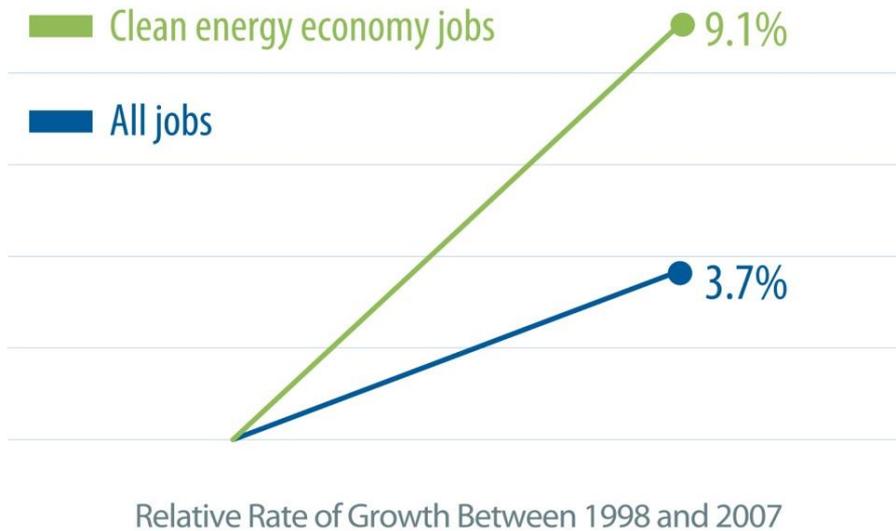


*A clean energy economy generates jobs, businesses and investments while expanding clean energy production, increasing energy efficiency, reducing greenhouse gas emissions, waste and pollution, and conserving water and other natural resources.*

SOURCE: Pew Charitable Trusts, 2009.



## AMERICA'S CLEAN ENERGY ECONOMY 10-YEAR GROWTH



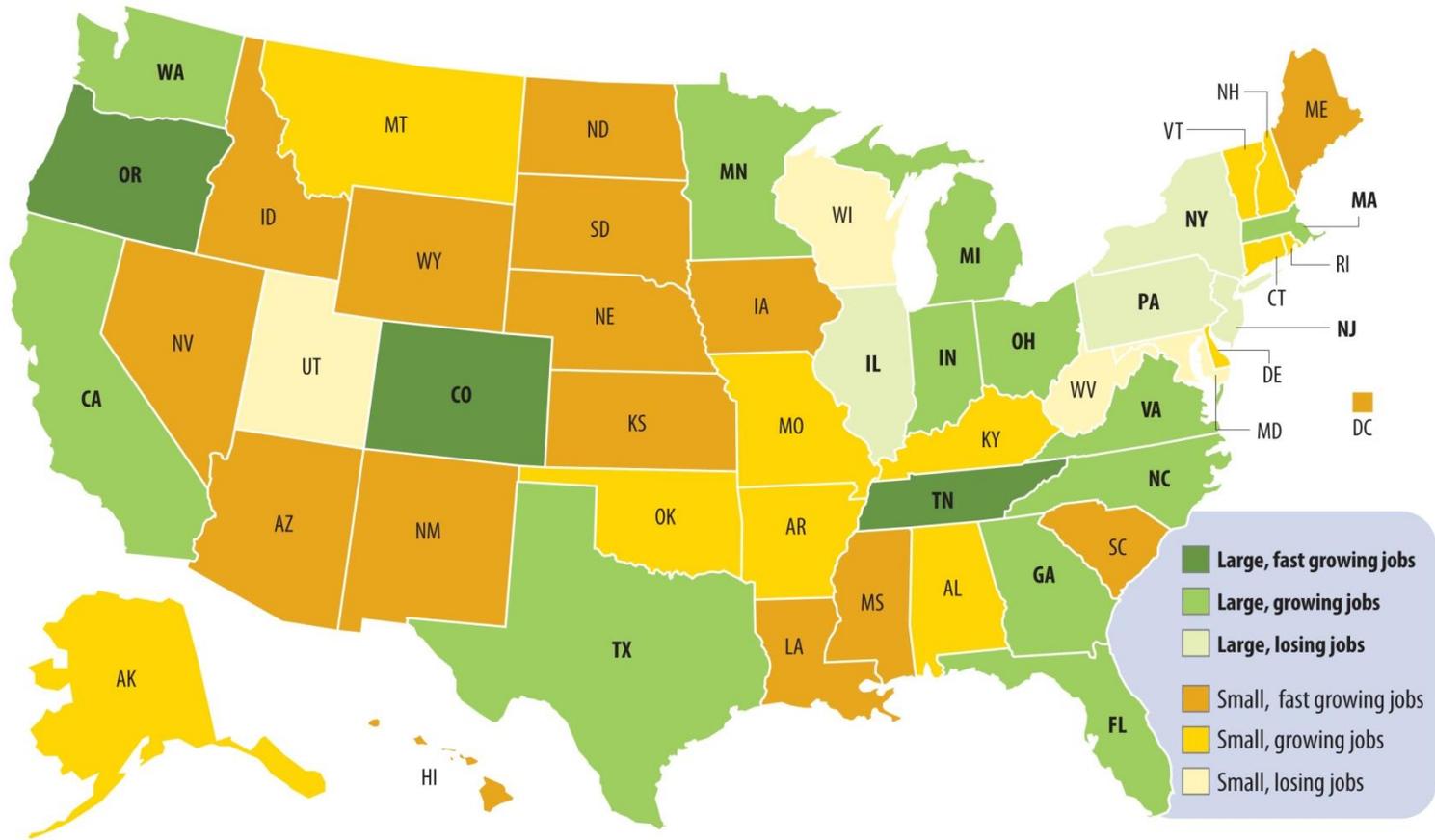
- Job growth in the clean energy economy outperformed overall job growth in 38 states and the District of Columbia between 1998 and 2007.

- Jobs include engineers, plumbers, construction workers, machine setters, teachers and others with annual incomes ranging from \$21,000 to \$110,000.

SOURCE: Pew  
Charitable Trusts,  
2009.



# WHERE ARE THE JOBS IN THE CLEAN ENERGY ECONOMY?

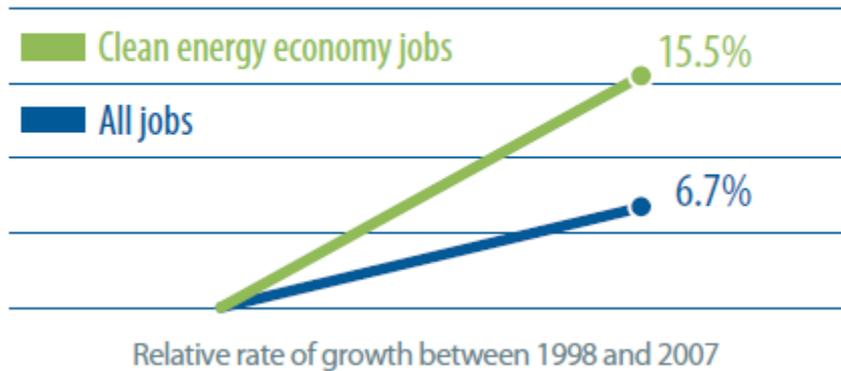


SOURCE: Pew Charitable Trusts, 2009, based on the National Establishment Time Series Database; analysis by Pew Center on the States and Collaborative Economics.

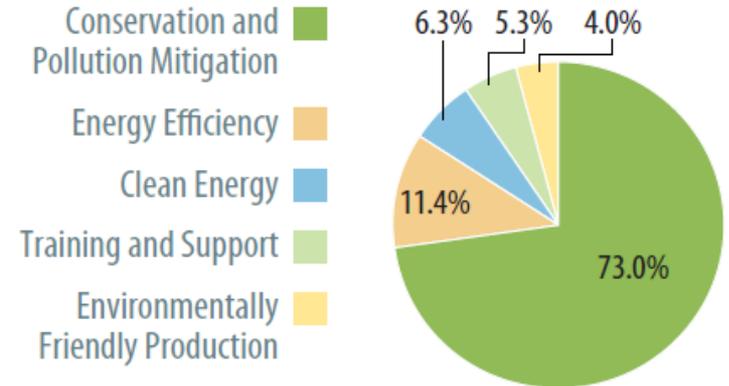


# Texas

## 10-YEAR GROWTH



## JOB CATEGORIES



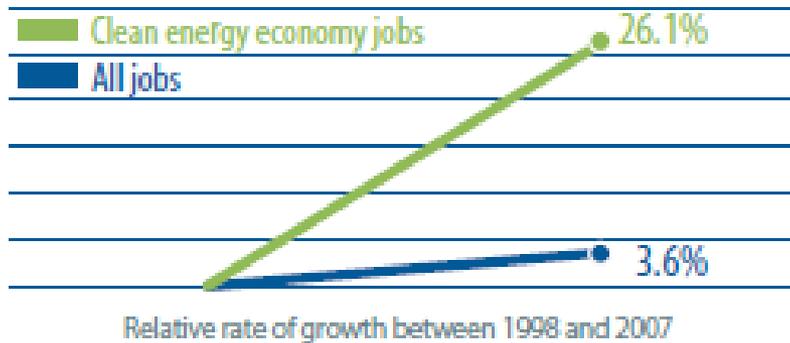
Share of jobs in the clean energy economy by category

SOURCE: Pew Charitable Trusts, 2009.

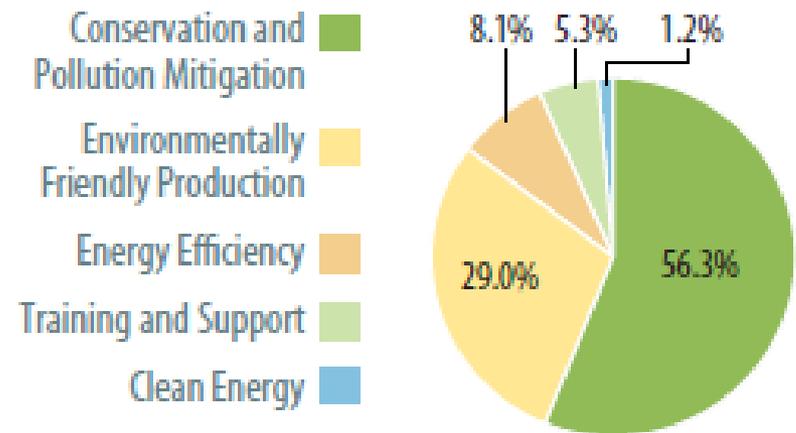


# Iowa

## 10-YEAR GROWTH



## JOB CATEGORIES

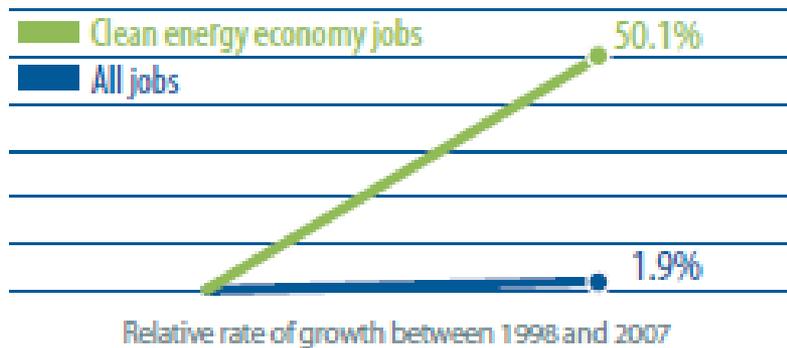


Share of jobs in the clean energy economy by category

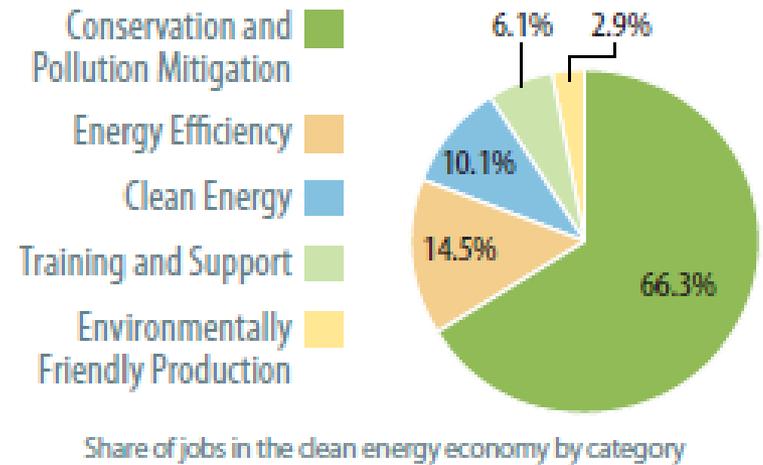


# New Mexico

## 10-YEAR GROWTH



## JOB CATEGORIES

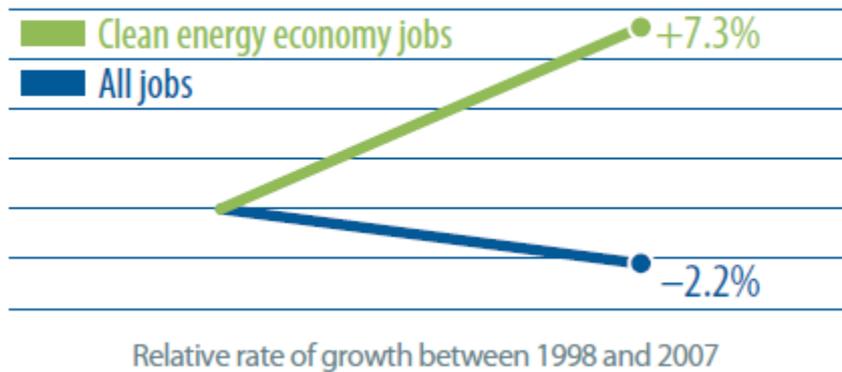


SOURCE: Pew Charitable Trusts, 2009.

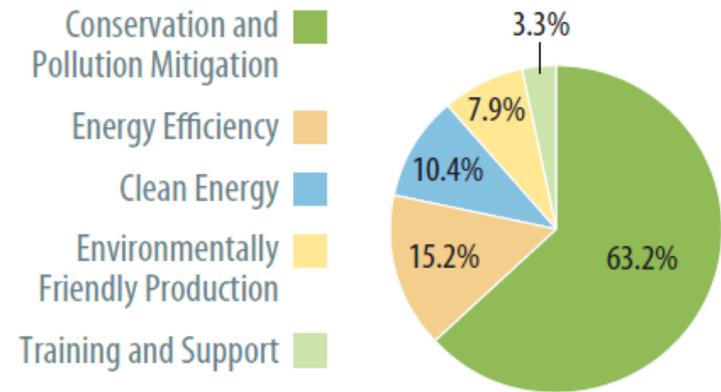


# Ohio

## 10-YEAR GROWTH



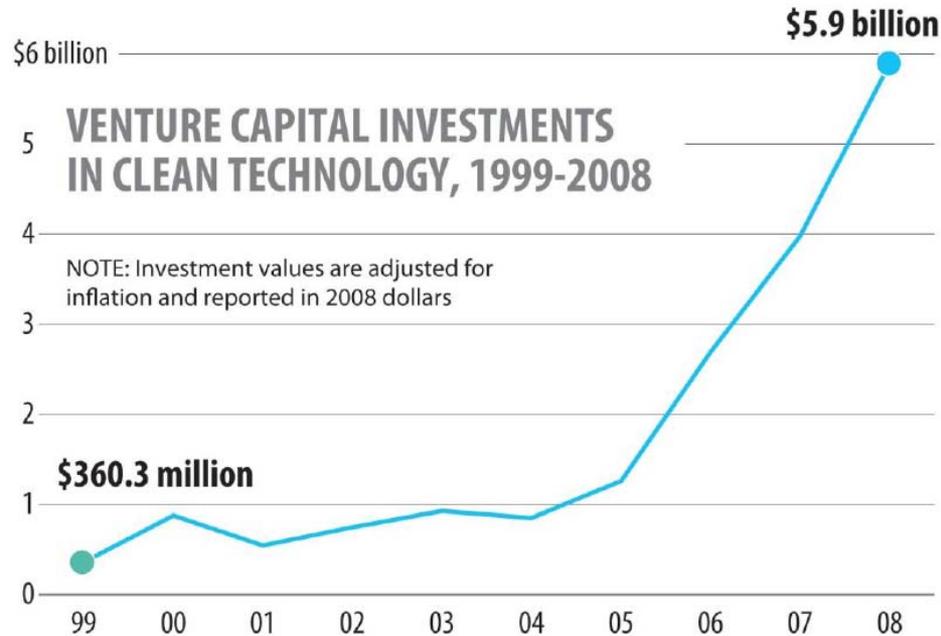
## JOB CATEGORIES



Share of jobs in the clean energy economy by category



## VENTURE CAPITAL INVESTMENTS



SOURCE: Pew Charitable Trusts, 2009, based on data from The Cleantech Group™ LLC; analysis by Pew Center on the States and Collaborative Economics.

States attracted nearly \$12.6 billion in venture capital investments between 2006 and 2008.



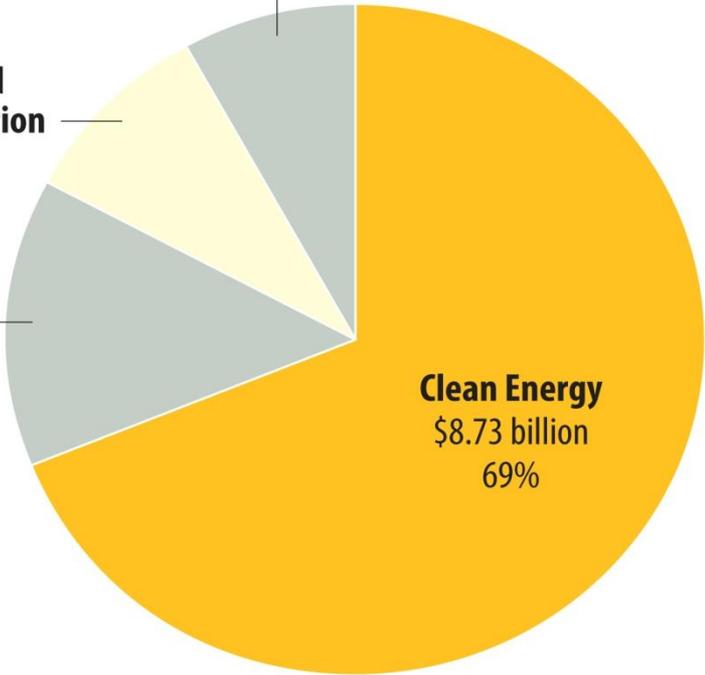
# AREAS OF VENTURE CAPITAL INVESTMENT

## CLEAN VENTURE CAPITAL INVESTMENTS, 2006-2008

**Conservation and Pollution Mitigation**  
\$1.08 billion, 9%

**Environmentally Friendly Production**  
\$1.82 billion  
14%

**Energy Efficiency**  
\$943.1 million, 8%

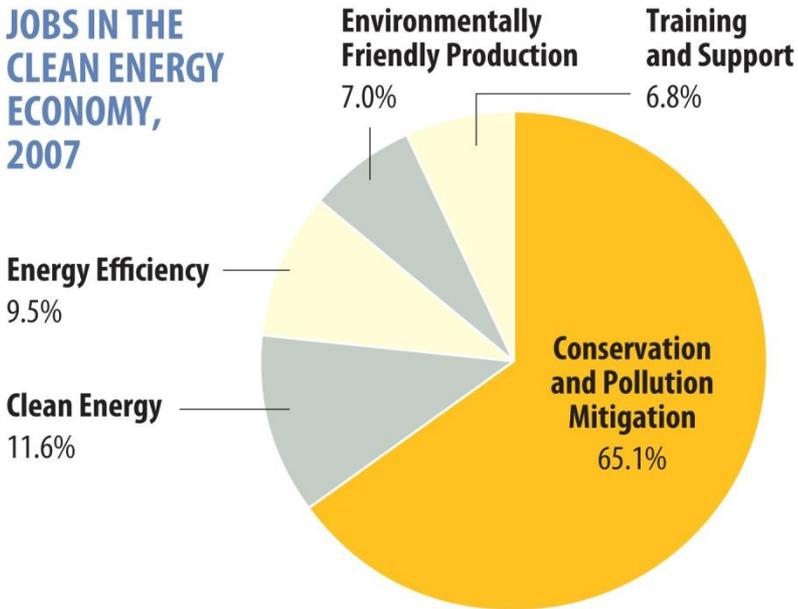


SOURCE: Pew Charitable Trusts, 2009.

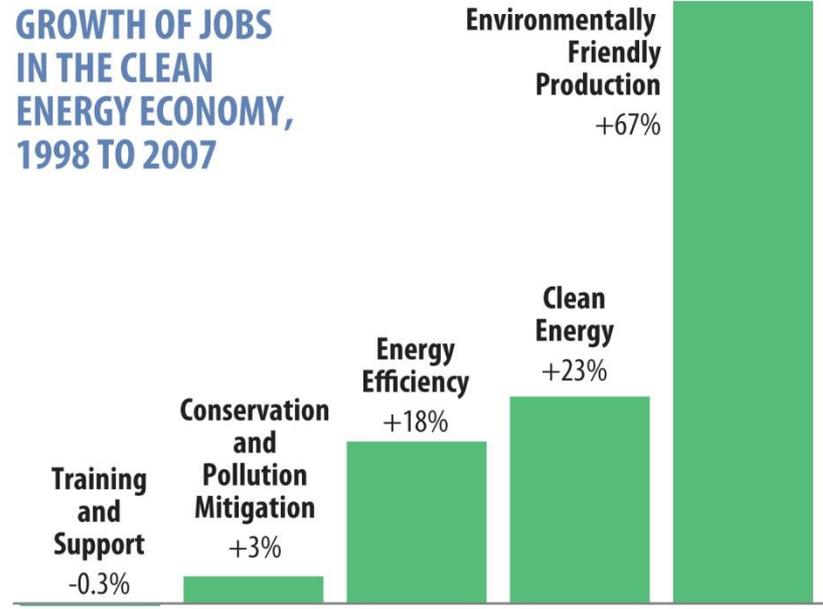


# THE U.S. CLEAN ENERGY ECONOMY: Jobs of Today and Jobs of Tomorrow

**JOBS IN THE CLEAN ENERGY ECONOMY, 2007**



**GROWTH OF JOBS IN THE CLEAN ENERGY ECONOMY, 1998 TO 2007**



SOURCE: Pew Charitable Trusts, 2009, based on the National Establishment Time Series Database; analysis by Pew Center on the States and Collaborative Economics.



# Need federal and state policies to support clean energy economy growth

- Speed the transition to a clean energy economy
- Create whole, new domestic jobs and industries
- Reduce our dependence on foreign oil and protect national security
- Reduce global warming pollution
- Ensure America's leadership role as global innovator



## Need federal and state policies to support clean energy economy growth

- 23 states are members of regional initiatives to reduce carbon emissions
- 29 states require a portion of their electricity to come from renewable energy sources
- 19 states have adopted energy efficiency standards for utilities
- 46 states offer tax incentives to encourage residents or corporations to use renewable energy or adopt energy efficiency systems or equipment

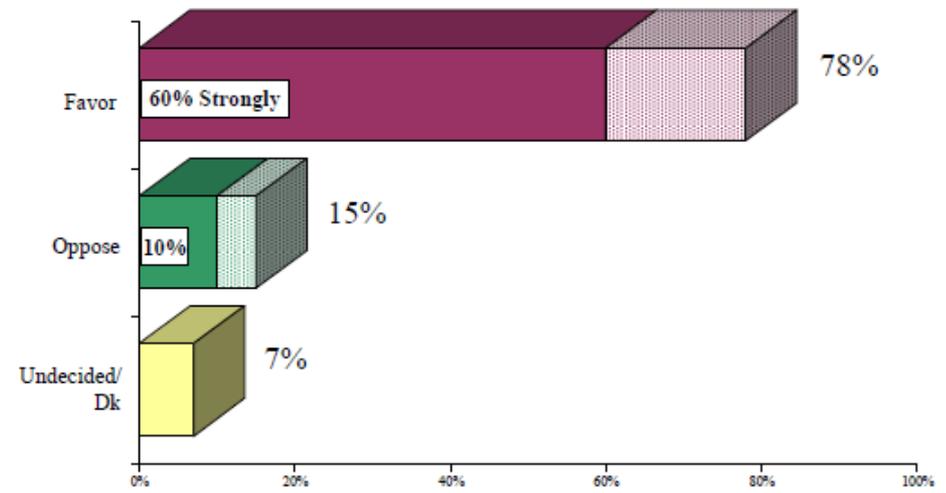


# American public opinion supports action to tackle global warming

- Public support for action to reduce the carbon emissions that cause global warming is overwhelming, consistent and robust
- Large majorities believe global warming is real and represents a serious threat
- Voters are nearly unanimous in saying that it is important to take action on global warming “now”

## The Vast Majority Favor Action To Reduce Global Warming Emissions

*Do you favor or oppose the United States taking action to reduce its emissions of gases like carbon dioxide that cause global warming?*

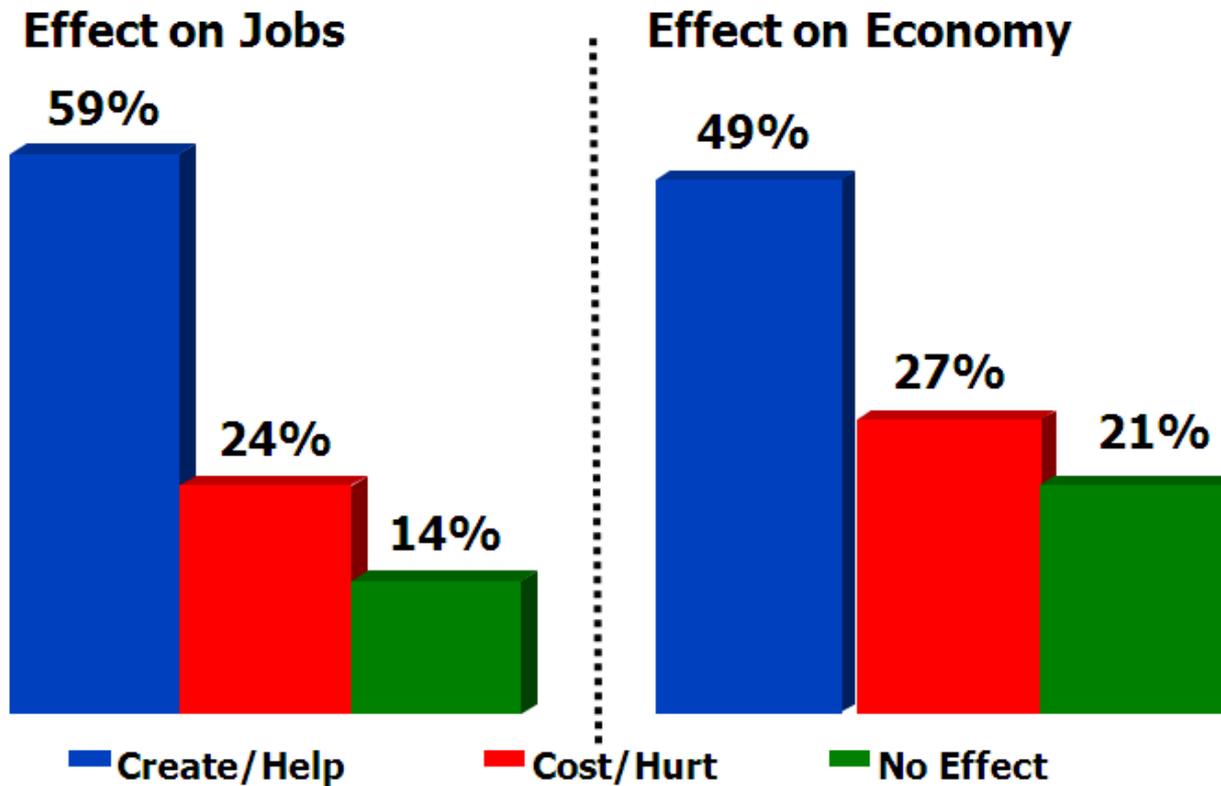


Source: The Mellman Group, National survey of 1,000 likely 2010 general election voters, June 3-7, 2009



# and Americans believe it will be good for the economy

*Efforts to Reduce Global Warming Pollution Will...*



Source: Public Opinion Strategies, National research on a green economy and creating green jobs, April 2009



# Federal policy is beginning to move

- American Recovery & Reinvestment Act (ARRA)
- U.S. House:
  - ✓ American Clean Energy and Security Act of 2009
- U.S. Senate:
  - Energy and Natural Resources Committee bill
  - Environment and Public Works Committee bill





# Opportunity to compete and lead in global clean energy economy

American companies:

- **1 of the world's top 10** solar manufacturers
- **1 of the world's top 5** wind manufacturers
- **2 the world's top 10** advanced battery manufacturers





## **For More Information:**

**Kil Huh**

**khuh@pewtrusts.org**

**Phyllis Cuttino**

**pcuttino@pewtrusts.org**

**The Pew Charitable Trusts**

**[www.pewtrusts.org](http://www.pewtrusts.org)**

