

# 2008 Congressional Renewable Energy & Energy Efficiency Expo

*The Role of Clean Energy  
Technologies in meeting Energy  
and Climate Change Challenges*

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The Business Council for  
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## Initial Observations

- Climate change is energy policy
- Deployment of existing clean energy technologies are critical to:
  - meet growing energy demand
  - mitigating fuel price increases
  - lowering the cost of compliance with any climate change program
- We do not need to wait to start to reduce greenhouse gas emissions
- Businesses are engaged in unprecedented way in energy and climate change debates, but we need more at the table

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## Initial Observations

- Key issues for clean tech industries in climate change policies
  - Allowance allocation
  - Complementary policies
  - Offsets
- Offsets drive technology innovation, investment and contain costs
  - Integrity in offset program is essential
- Need federal action, but must recognize early action by states, regions, business, others

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## About the BCSE

- Broad-based coalition of energy efficiency, natural gas and renewable energy industries
- The Council's coalition includes power developers, equipment manufacturers, independent generators, green power marketers, retailers, large energy users, and gas and electric utilities as well as several of the primary trade associations in these sectors

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## Our Mission

- Expand markets for clean energy generation, distribution and use
  - Energy Efficiency
  - Renewable Energy
  - Natural Gas
- Quantify the environmental attributes of clean energy technologies
- Promote market-based programs that recognize and reward clean energy technologies

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## Clean Tech Role in Carbon Markets

- Offers existing technology to cost-effectively reduce greenhouse gas emissions – with co-benefits
  - Create jobs and expand economic growth
  - Enhance energy reliability and security
  - Improve local air quality

*According to McKinsey, roughly 40 percent of reductions they identified in their 2007 study can be met with net savings to the economy*

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## Orientation on Climate Change Policy

- Urge integration of energy and environmental policy decisions
- Urge holistic view of development of climate change policy
  - Design elements are inter-related
  - Need to send short-term and longer-term deployment signals
- *Benchmark*: Is policy strong deployment vehicle for existing clean energy technologies?

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## Clean Tech Policy Priorities

- Ensure a market-based and economy-wide approach
- Sound and sustainable price signals
  - Avoid diluting price signal (ex: safety valve)
- Press for *allowance value* under cap-and-trade program to be directed to clean tech investments
  - Allocations, set-asides and auction proceeds
- *Complementary Policies* - Establish clean energy policies provisions within climate change legislation
  - RE and EE Tax package
  - RES/EERS
  - Transmission
  - Smart Grid

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## BCSE Views on Job Creation

- Clean tech jobs result from the manufacture, installation, operation, maintenance, service, development and support of clean energy and efficiency projects
  - Many clean tech jobs cannot be outsourced
  - Clean tech jobs can be created in every state in the US

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## Clean Tech & the US Economy

- Significant investment in renewable energy and energy efficiency would add more than 3.3 million jobs over a 10 year period
  - Nearly \$50 billion in renewable energy technologies could result in nearly 1 million new jobs
  - \$76 billion in manufacturing of energy efficient durable goods would create over 900 thousand new jobs
  - \$90 billion in building energy efficiency would yield over 800,000 jobs
  - Nearly \$100 billion in public transit and transportation infrastructure would create over 650,000 new jobs

*New Energy for America*, Apollo Jobs Report, January 2004,  
[http://www.apolloalliance.org/downloads/resources\\_ApolloReport\\_022404\\_122748.pdf](http://www.apolloalliance.org/downloads/resources_ApolloReport_022404_122748.pdf)

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## Clean Tech & Public Opinion

- A 2007 poll conducted for the Center for American Progress showed that 79% of respondents "believe that shifting to new, alternative energy production will help America's economy and create jobs, not cost American jobs." Only 17% disagreed.

John Podesta, Daniel J. Weiss, and Laura Nichols, "Americans Feel New Urgency on Energy Independence and Global Warming," (Washington: Center for American Progress, 2007), available at [http://www.americanprogress.org/pressroom/releases/2007/04/environmental\\_poll.html](http://www.americanprogress.org/pressroom/releases/2007/04/environmental_poll.html)

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## Clean Tech Jobs: Current & Future

- The American Solar Energy Society (ASES) reports that in 2006, the **renewable energy and energy efficiency sectors created almost 8.5 million green jobs**
- A report from the American Council for an Energy Efficient Economy shows that currently, **over 1.6 million US jobs are supported by energy efficiency related investments**
- The Department of Energy recently predicted that a significant investment in **wind power leading to the generation of 20% of US electricity would yield over 6.2 million jobs by 2030**
- Analysis by the Renewable and Appropriate Energy Laboratory at Berkeley showed that the renewable energy sector **"generates more jobs per megawatt of power installed, per unit of energy produced, and per dollar of investment" than traditional energy sources.**

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