NUCLEAR MATTERS CAMPAIGN OVERVIEW

August 2014
What is Nuclear Matters?

Nuclear Matters is a bipartisan campaign to engage and inform policymakers and the public about the need to preserve existing nuclear energy plants due to their critical role in America’s energy mix.
Our Co-Chairs

Sen. Judd Gregg (R–NH)
- U.S. Senator (NH) from 1993 – 2011
- Chairman of Sen. Budget Committee
- Governor of New Hampshire from 1989 – 1993
- U.S. Representative from 1981 – 1983

Sen. Evan Bayh (D–IN)
- U.S. Senator (IN) from 1999 – 2011
- Governor of Indiana from 1989 – 1997
- Secretary of State in Indiana from 1986 – 1989
Our Leadership Council

Spencer Abraham
- Secretary of Energy 2001 – 2005
- U.S. Senator (MI) from 1995 – 2001
- NRC Co-Chairman 1991 – 1993

Vicky Bailey
- Assistant Secretary of Policy and International Affairs, Department of Energy 2001 – 2004
- FERC Commissioner 1993 – 2000

Carol Browner
- Director of White House Office of Energy and Climate Change Policy
- EPA Administrator 1993 – 2001

Sean McGarvey
- President of the North America’s Building Trades Union (NABTU) 2012 – Present
- Secretary-Treasurer of NABTU 2005–2012

Bill Daley
- White House Chief of Staff 2011 – 2012
- Secretary of Commerce 1997 – 2000

Blanche Lincoln
- U.S. Senator (AR) from 1999 – 2011
- U.S. Representative (AR-1) from 1993 – 1997

David Wright
- President of NARUC 2011 – Present
- Chairman of the South Carolina Public Service Commission 2004 – 2011

Ed Hill
- President of International Brotherhood of Electrical Workers (IBEW) 2001 – Present
- Executive Council of AFL-CIO
Why Nuclear Matters

- America’s existing nuclear energy plants are the backbone of our nation’s energy portfolio and provide tremendous benefits.
  - Reliable
  - Carbon Free
  - Economic Engines

- Despite these significant benefits, existing merchant nuclear plants face a “perfect storm” of economic challenges that threaten their continued operation.

- Our energy policies must ensure that existing nuclear energy plants are preserved though different solutions may be appropriate for different parts of the country.
### CAPACITY FACTOR

Percentage of Actual Power Generated vs. Theoretical Maximum Possible in 2013

<table>
<thead>
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<tbody>
<tr>
<td><strong>Nuclear</strong></td>
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<tr>
<td><strong>Geothermal</strong></td>
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<tr>
<td><strong>Biomass</strong></td>
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<tr>
<td><strong>Coal</strong></td>
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<tr>
<td><strong>Natural gas</strong></td>
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<td><strong>Hydro</strong></td>
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<td><strong>Wind</strong></td>
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<tr>
<td><strong>Solar</strong></td>
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</tbody>
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Nuclear power is the most efficient and reliable source of large-scale, around-the-clock electricity.
Importance of a Diverse Portfolio

- A diversified energy portfolio saves American consumers $93 billion a year.

- Currently, these economic benefits may be threatened as a result of premature nuclear energy plant closures, emphasizing the need to preserve these valuable assets and prevent an over-reliance on any one generation source.
Clear Benefits – Carbon-Free

Nuclear energy’s “life-cycle” carbon emissions are among the lowest of all electricity sources.

<table>
<thead>
<tr>
<th>Source</th>
<th>CO₂ Emissions (tons)</th>
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<tbody>
<tr>
<td>Wind</td>
<td>14</td>
</tr>
<tr>
<td>Geothermal</td>
<td>15</td>
</tr>
<tr>
<td>Nuclear</td>
<td>17</td>
</tr>
<tr>
<td>Hydro</td>
<td>18</td>
</tr>
<tr>
<td>Solar PV</td>
<td>39</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>622</td>
</tr>
<tr>
<td>Coal</td>
<td>1,041</td>
</tr>
</tbody>
</table>

Numbers are tons of CO₂ equivalent per gigawatt-hour of electricity. Life-cycle emissions account for carbon from construction and fuel used to generate electricity to waste management.
Clear Benefits – Economic Engines

**IMPACT OF EACH NUCLEAR ENERGY PLANT**

- **$40 MILLION** annual payroll
- **$470 MILLION** in revenue from buying local goods and services
- **$16 MILLION** in local and state taxes that benefit schools, roads, parks and other infrastructure

1 figure = 25 jobs
Economic Challenges to Nuclear Energy
Taking Action – National Campaign

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www.NuclearMatters.com

/NuclearMatters

@Nuclear_Matters
National Advertising

NUCLEAR MATTERS

America’s state-of-the-art nuclear energy plants are the backbone of our nation’s electricity system. We depend on these plants to maintain a diverse energy supply and to provide reliable, carbon-free and affordable energy now and in the future.

PROVIDE 20% OF AMERICA’S OVERALL ELECTRICITY
“ALWAYS ON” ENERGY GENERATION CAPABILITY

EMIT ZERO AIR POLLUTION
MAJOR SOURCE OF CARBON-FREE ENERGY

Reliable
Carbon-Free
Economic Engines

CREATE 100,000 JOBS THAT GROW LOCAL AND STATE ECONOMIES
TAX REVENUE FOR SCHOOLS, ROADS AND EMERGENCY SERVICES

YET, THE RELIABILITY OF AMERICA’S ELECTRICITY SYSTEM IS IN JEOPARDY
DUE TO FLAWED ENERGY POLICIES THAT MAY FORCE NUCLEAR POWER PLANTS TO SHUT DOWN.

To learn more: www.NuclearMatters.com @Nuclear_Matters

America’s nuclear energy plants empower us.

Clean, sustainable nuclear electricity energizes all of America. In fact, existing nuclear plants provide 20 percent of our nation’s energy day and night — without emitting harmful greenhouse gases. Building nuclear plants also create 100,000 new jobs, grow local and state economies, and provide critical tax revenue for schools, roads, and other public priorities.

But many of America’s valuable nuclear plants may be forced to shut down, due to flawed and outdated energy policies.

Visit nuclearmatters.com to learn more.

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Taking Action – State Campaign

- Media Relations
- Paid Advertising
- Coalition Building
- Voter Identification & Mobilization
- Event & Spokespeople Positioning
- Localized Engagement
- Digital Advocacy
Events

- 6/5: National Conference of State Legislators
- 6/6: First Friday Caucus
- 6/24: LaSalle County Generating Station
- 6/25: Democratic Governors Association
- 7/14: National Association of Regulatory Utility Commissioners
- 7/18: Republican Legislative Campaign Committee National Conference
- 7/28: U.S. Women in Nuclear National Conference
- 7/31: American Legislative Exchange Council Annual Meeting
- 7/31: Environmental Council of States STEP 2014 Conference
Possible Solutions

Nuclear Matters doesn’t prescribe any particular solution, but rather encourages policymakers and stakeholders to take steps that will enable the continued operation of U.S. nuclear energy plants.

Different solutions may be called for in different parts of the country, such as:

- New legislative, regulatory and/or competitive market policies that recognize the zero-carbon-emissions value of existing nuclear energy plants;
- New legislative, regulatory and/or competitive market policies that recognize the electric system reliability of existing nuclear energy plants;
- New efforts to enable rapid development of electric transmission capacity to better link existing nuclear energy plants to markets;
- Other, similar policy initiatives that help improve the economic viability of today’s nuclear energy plants.
Thank You

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