National Security and Climate Change
Silver Buckshot Approaches to Reducing Carbon Pollution

Wilson Center -- The Environmental Change and Security Program

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CNA's Leadership on Climate Change & National Security

CNA -- Research organization providing in-depth analysis and solutions for government leaders

MAB -- 2007-2014 Over 30 Members (Rotational)

- General Gordon Sullivan, USA (Ret)
- General James Conway, USMC (Ret)
- Admiral "Skip" Bowman, USN (Ret)
- General Paul Kern, USA (Ret)
- General "Chuck". Wald, USAF (Ret)
- General Ron Keys, USAF (Ret)
- Vice Admiral Lee Gunn, USN (Ret)
- Rear Admiral Dave Titley, USN (Ret)
- General Don Hoffman, USAF (Ret.)
- Vice Admiral Ann Rondeau, USN (Ret.)
- Sherri Goodman

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2007 National Security and the Threat of Climate Change

National Security and the Threat of Climate Change (2007)

- Climate change is a **threat multiplier** for instability in some of the most volatile regions of the world
- Projected climate change will **add to tensions** even in stable regions of the world
- Projected climate change poses a **serious threat** to America's national security
- **Climate change**, **national security**, and **energy dependence** are a related set of global challenges

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2014- National Security & the Accelerating Risk of Climate Change

National Security and the Accelerating Risk of Climate Change (2014)

- **We now observe that climate change risks are accelerating**
- **In some areas climate change is serving as a *Catalyst for Conflict***
- **Climate change is happening today - it's no longer a future threat**
- **Action is required today – it's no longer an option to wait and see**

To lower our national security risks, the United States should take a global leadership role in preparing for the projected impacts of climate change. The **U.S. should lead global efforts to develop sustainable and more efficient energy solutions to help slow climate change.**

Why DoD?

DoD remains a good platform for developing alternatives
(only 1.7% of total U.S. fuel consumption, but largest in USG)

DoD not just about GHG reduction, but increasing operational efficiency and effectiveness -- Example for the private sector

- Efficiency
  - Hybrid Elect Drive
  - LED lighting
  - Improved Engines
  - Lowered drag aircraft
  - Ship stern flaps
  - Improved generators
  - Micro grids
  - Building (LEED)
- Renewable
  - Solar (PV)
  - Wind
  - Geothermal
  - Tide/current
  - Ocean thermal
- Alternatives
  - Nuclear
  - SMR
  - Electric Vehicles
  - Methane Recov.
  - Biofuels

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DOD Tools

Vehicle	Approval Level
Appropriated Funding	Service level or in the case of ECIP, OSD and Congressional level
Power Purchase Agreements	Service level
Enhanced Use Leasing	OSD level (for projects that include land with an annual fair market value of $750K+ requires OSD Certification)
Energy Savings Performance Contract	Service level
Energy Service Agreements	OSD level, OMB review
Utility Energy Service Contract	Service level
Utility Privatization	Service level
2922a Special Agreement Authority	OSD level

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Other Important consideration

- **Commitment of Leadership**
  - **Civilian and Uniformed**
- **DoD – DOE MOU**
- **Cultural Changes**
- **DoD – Community resilience/partnership**

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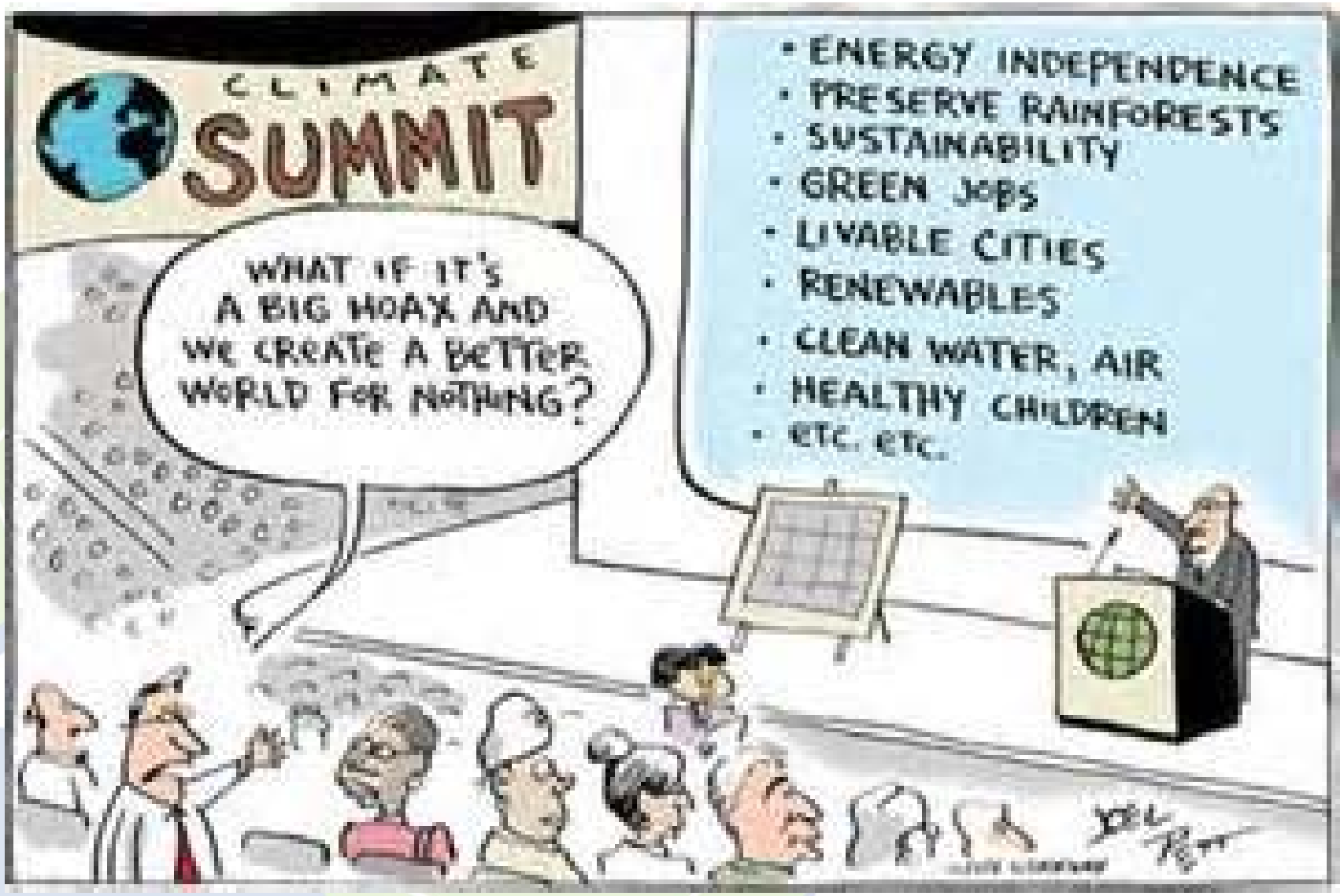

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Back-up

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