A presentation featured at the

2010 Topical Symposium:


Hosted by:
The Institute for National Strategic Studies
of
The National Defense University

24-25 August 2010

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Economic Security: Neglected Dimension of National Security

Panel 4: Energy Security Fuels our National Security

*Migrating to Alternative Energy*

William C. Walden
Technikon, LLC
• U.S. Energy Use 2007:
  – Fossil Sources 85%
  – Non-Fossil 15%
• Renewable % in U.S. 5%
• U.S. exported $360 billion in 2009 for fossil fuels
• Cost to DoD was $20 billion in 2008
• Reasons to move from fossil to Renewable Energy:
  – Carbon in the atmosphere
  – Price stability
  – Supply interruption – Dependence on foreign
  – Jobs creation in U.S.
  – Reduce environmental disasters
  – Research science is relatively mature
• Challenges and myths:
  – Low cost of fossil energy, landfill and sewage treatment
  – High cost of new infrastructure
  – R&D is being exported or appropriated
  – Technology at industrial scale is not mature
  – Private sector funding is sitting on the sideline
  – A Pre-Commercialization Gap exists and not being solved on national scale
  – We still believe that research creates manufacturing jobs
Shrinking the Pre-Commercialization Gap