

Energy Security: Four Decades of "It's a Problem"

responsibility. (17-Jul-1981)

been climbing steadily since 1985 and now stand at 42 percent of our total consumption. Too many of those oil imports come from sources in troubled

Bill Clinton: "... we must do more to free working families from the grip of rising energy costs, especially the price we pay at the pump ...we still have more to do to strengthen our security over the long term. That's the most important thing." (01-Jul-

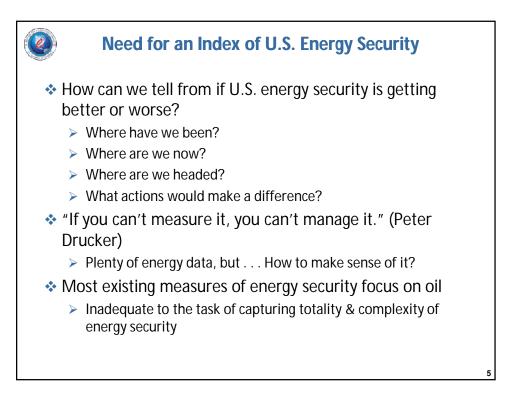
George W. Bush: "Keeping America competitive requires affordable energy. And here we have a serious problem: America is addicted to oil, which is often imported from unstable parts of the world."

Barack Obama: "Given our energy needs, in order to sustain economic growth and produce jobs, and keep our businesses competitive, we are going to need to harness traditional sources of fuel even as we ramp up production of new sources of renewable, homegrown energy." (31-Mar-2010)

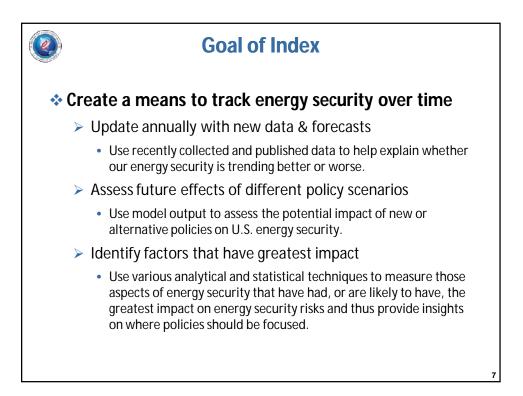
What Do We Mean by "Energy Security"? Modern life not possible without energy, but reliance on energy

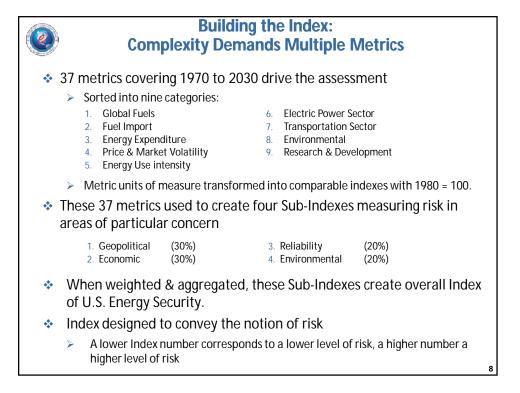
poses risks

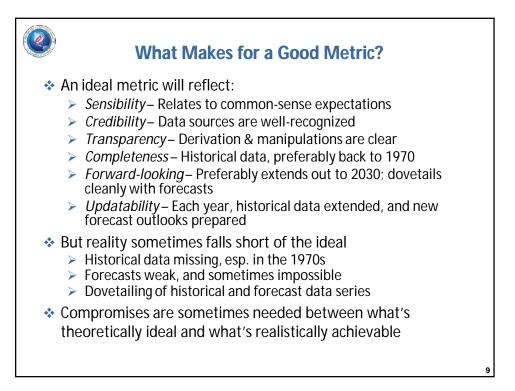
- > Oil supply disruptions, gasoline price spikes, power blackouts, natural gas shortages & environmental concerns have made energy a pressing national economic and security priority
- Energy security is not necessarily energy independence
 - > Energy independence not realistically achievable & may not even be desirable in today's globalized economy
- Many factors interact to affect energy security—it's not just about oil!
 - Reliability & diversity of production and supply
 - > Diversity of energy sources & fuels
 - Geopolitical & physical vulnerabilities
 - Price & price volatility
 - Reliability of delivery & transmission systems
 - Consumption patterns & energy efficiency
 - **Emissions from energy**
 - Intellectual capital and advanced technology >
 - & many more . . .

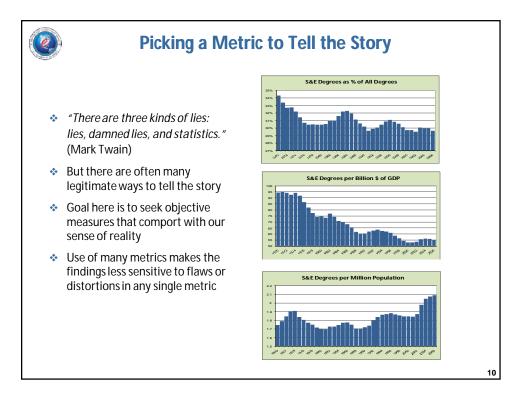


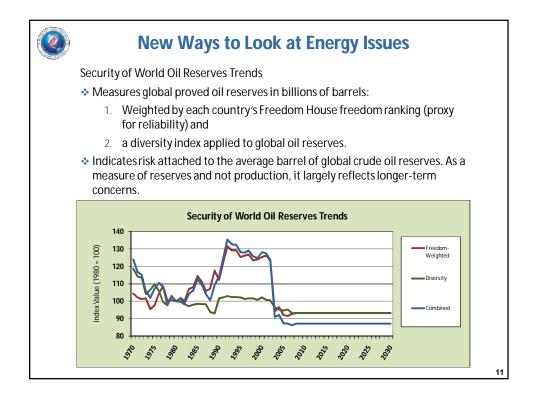


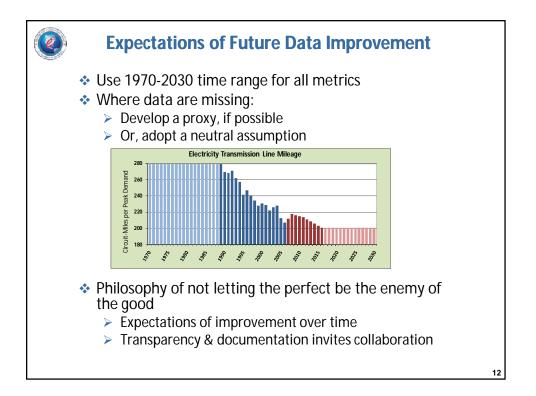


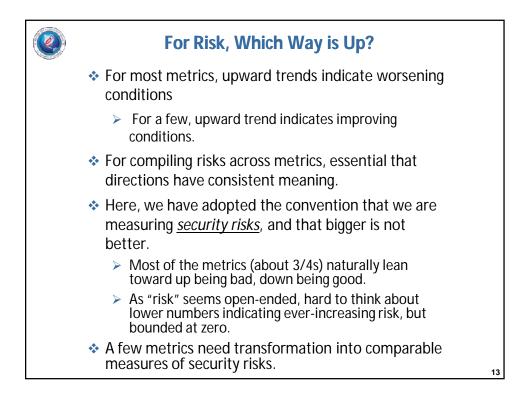


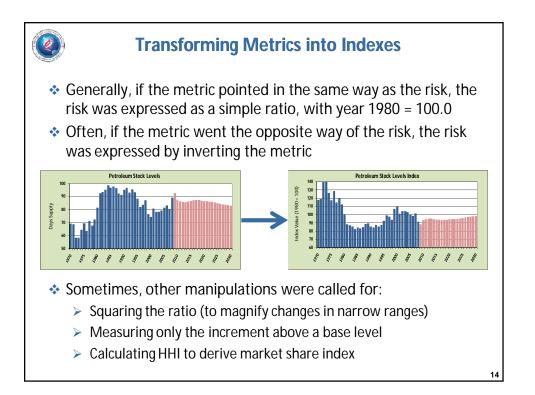


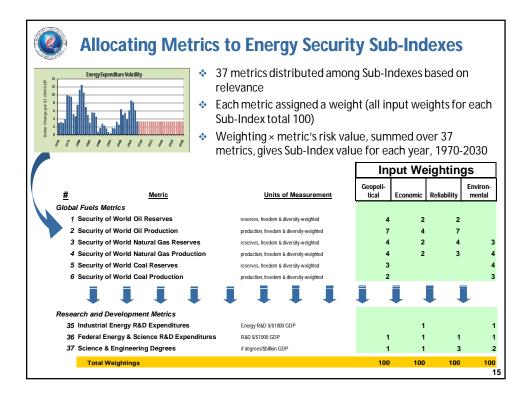


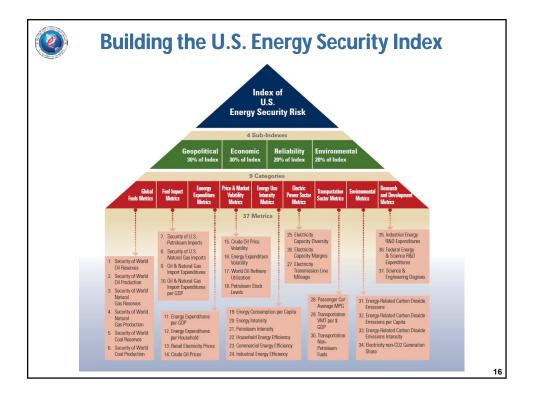


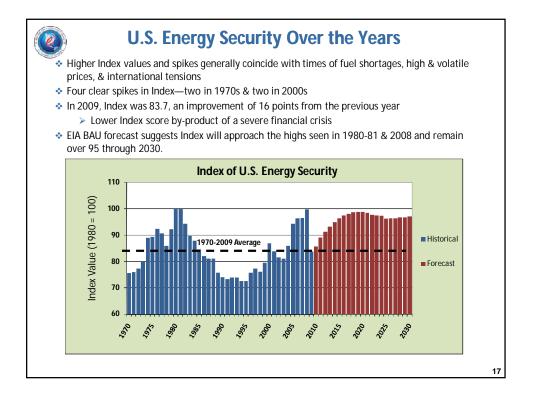












U.S. Energy Security Risks from 1970 to 2009: High, Low & Average Index Scores					
Year	Index Score	Year	Index Score	Historica Average	
Total Composite Index	1980	100.0	1994	72.6	84.2
Sub-Indexes:					
Geopolitical	2008	101.1	1995	69.5	82.4
Economic	2008	105.7	1970	62.5	78.5
Reliability	1981	103.9	1995	69.5	84.3
Environmental	1973	104.4	1991	85.0	95.1

