



Department of Energy Achieving Program Performance

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Director Program Analysis & Evaluation

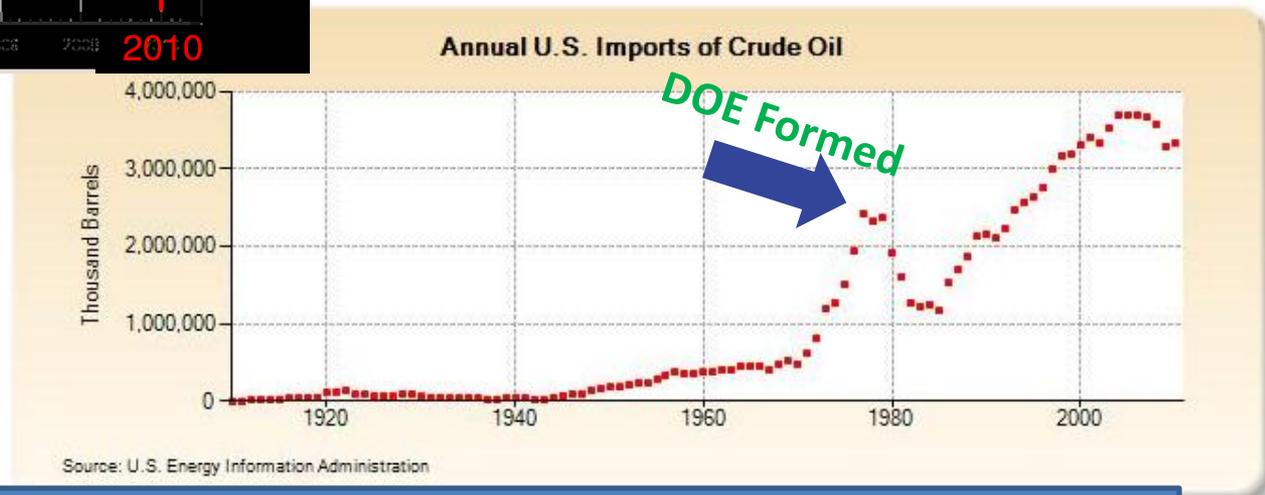
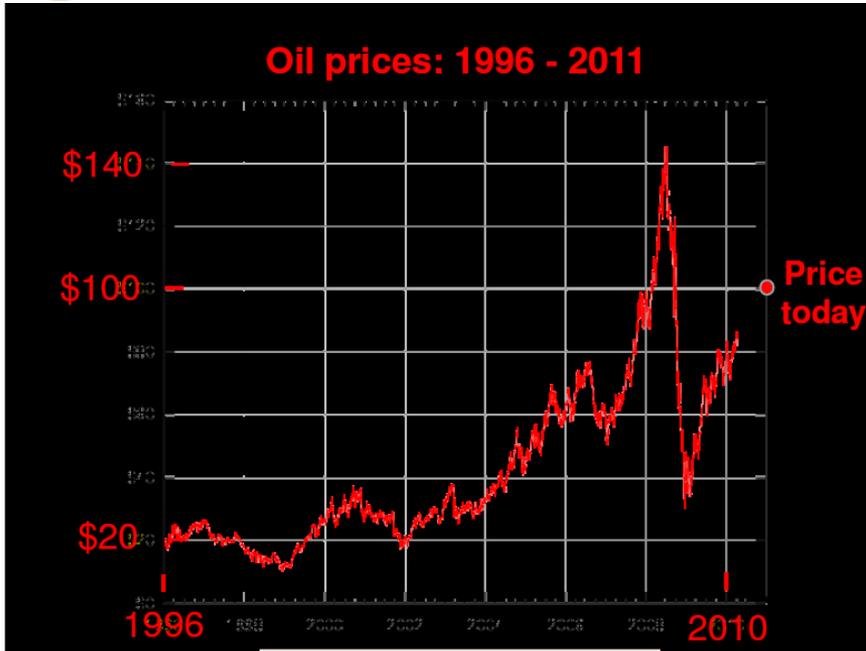
Department of Energy

May 18, 2011



Defining the Problem

Exhibit A: Economic Security and Energy



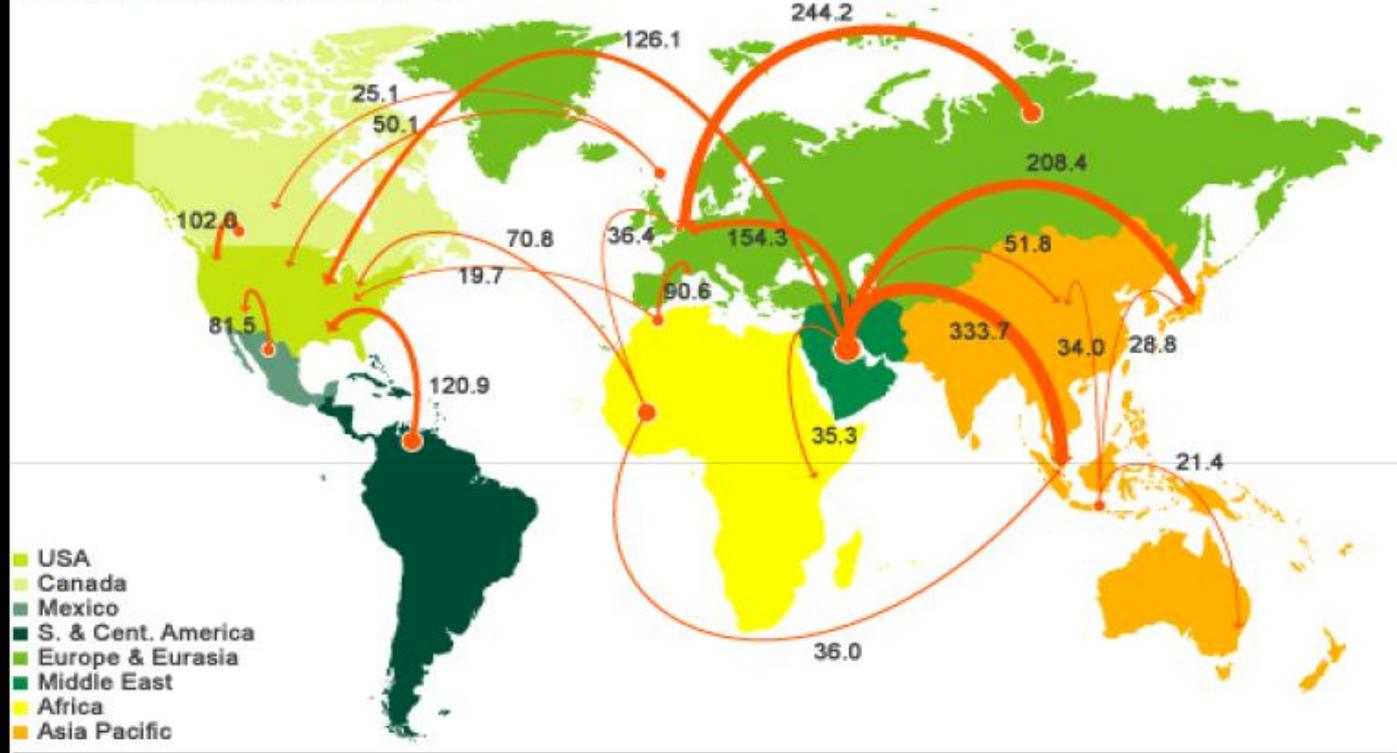
The price of oil will go up in the coming decades



Defining the Problem

Exhibit B: National Security and Energy

Major oil trade movements
Trade flows worldwide (million tonnes)



Oil trade

\$400B/Year (\$1B+/Day) flows out of U.S. to Import Energy and Global Demand will Increase



President Has Articulated National Policy Approach and Goals to Solve the Problem

Science

"No area is more ripe for innovation than energy."

- Protect and increase investment in fundamental research

Energy

"The nation that leads the clean energy economy will be the nation that leads the global economy."

- 80% electricity from clean sources (2035)
- Reduce oil imports by 3.5 MBD
- 1M alternative fuel vehicles (2015)
- Clean energy jobs and private investment



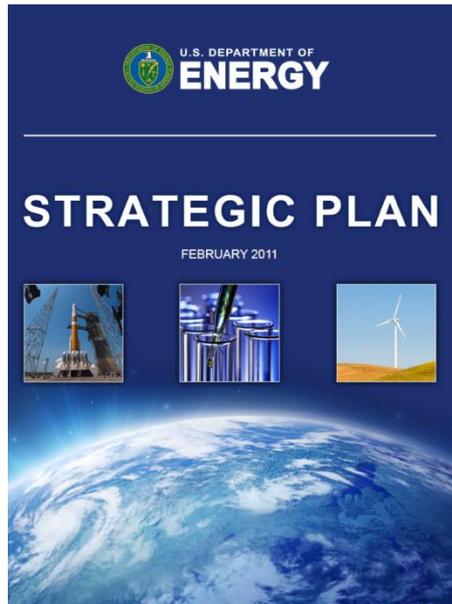
"This is our generation's Sputnik moment. Two years ago, I said that we needed to reach a level of research and development we haven't seen since the height of the Space Race... ..We'll invest in biomedical research, information technology, and especially clean energy technology -- an investment that will strengthen our security, protect our planet, and create countless new jobs for our people."

"[C]lean energy breakthroughs will only translate into clean energy jobs if businesses know there will be a market for what they're selling. So tonight, I challenge you to join me in setting a new goal: By 2035, 80 percent of America's electricity will come from clean energy sources."

-- President Obama, January 25, 2011 -- State of the Union



Implementing the President's Vision and Catalyze Resource Alignment through the Strategic Plan



Goal 1: Energy: Catalyze the timely, material, and efficient transformation of the nation's energy system and secure U.S. leadership in clean energy technologies

Goal 2: Science: Maintain a vibrant U.S. effort in science and engineering as a cornerstone of our economic prosperity, with clear leadership in strategic areas

Goal 3: Nuclear Security: Enhance nuclear security through defense, nonproliferation, and environmental efforts



Strategic Plan Articulates Targets *Define Resources & Efforts Necessary to Meet these Targets*

Forms the basis for Energy Outcome Measures (below is a subset)
...What Gets Done By When?

Near-term (next couple of years)

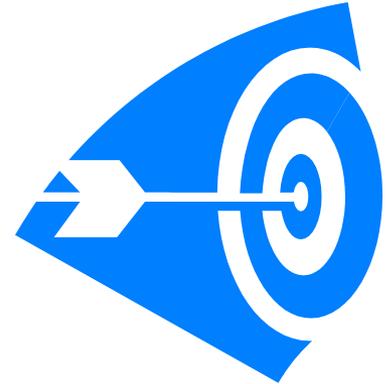
- Support 2x renewable energy generation by 2012
- Retrofit 1.0 million homes by 2013
- Install >1000 syncophasor units and >40 M smart meters by 2013

Medium-Term (by mid-decade)

- Reduce utility scale energy storage costs 30% by 2015
- Support battery manufacturing capacity for 500,000 PHEVs/y by 2015
- Establish >6 appliance standards/y and industrial efficiency cert. by 2015
- Facilitate >5 commercial-scale CCS demonstrations by 2016

Long-term (by end of the decade)

- Demonstrate small modular reactors by 2019



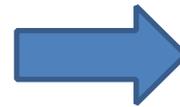
Establish a Cadence of Results, Balancing Near-term and Long-term

“In the long run, we're all dead.”

John Maynard Keynes -- Economist



Replicate Planning Architecture from Recovery Exploring Work Plans to Implement the Strategic Plan



Program Work Plans

| | |
|---|----------------------|
| I. PROGRAM (AKA GPRA Unit) | |
| Accountable official | <input type="text"/> |
| e-mail address | <input type="text"/> |
| Program web-site | <input type="text"/> |
| <i>Provide high-level overview of the program's purpose, UNIT and words, below as in the Performance Plan and program to support the availability of financial information.</i> | |
| A. Description/Mission | |
| Strategic Goal | <input type="text"/> |
| <i>Provide a brief and program to support the availability of financial information.</i> | |
| B. Strategic Plan Alignment | |
| Primary Strategic Objective | <input type="text"/> |
| Secondary Strategic Objective | <input type="text"/> |
| <i>Use the drop-down lists to select the Goal and up to two Objectives which the program</i> | |
| <i>aligns with the energy, climate, and environmental and economic development</i> | |
| <i>energy, climate, and economic development and economic development</i> | |
| <i>energy, climate, and economic development and economic development</i> | |
| C. Targeted Outcomes and HPPGs Support | |
| Primary Outcome Supported | <input type="text"/> |
| Secondary Outcome Supported | <input type="text"/> |
| Third Outcome Supported | <input type="text"/> |
| Additional | <input type="text"/> |
| Program Goal | <input type="text"/> |
| <i>Use the drop-down lists to select the Targeted Outcomes to which the p</i> | |
| <i>Outcome of a program transition to a more energy efficient economy by establishing or updating the</i> | |
| <i>planning in which it appears standard annually and establishing an AEO credited reduced energy</i> | |
| <i>2010</i> | |
| <i>10 operational commercial scale CCS demo by 2019</i> | |

IMPLEMENTATION:

- Translate program of work and component pieces into a cohesive and executable work plan
- Establishes planning baseline against which all aspects of performance can be monitored
- Aligns otherwise disparate components and focuses them on the expected result