U.S. Department of Energy Office of Fossil Energy

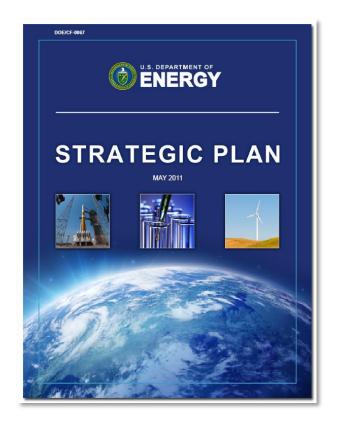
Ensuring America's Energy Security

C.D. McConnell Chief Operating Officer



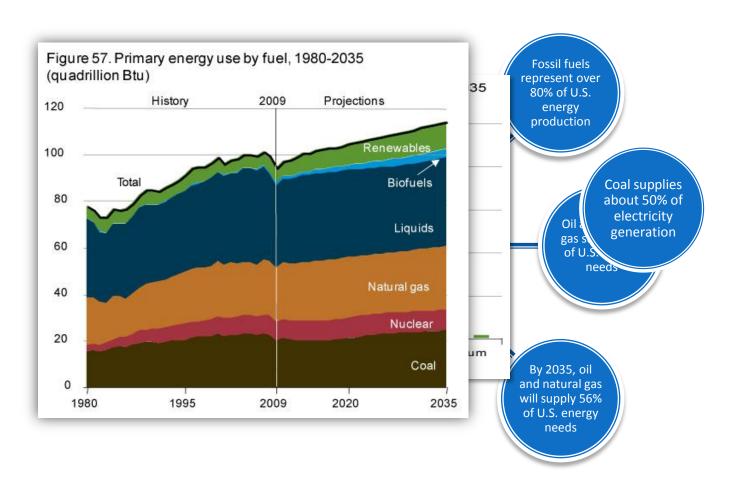
DOE Strategic Plan

- Transform our Energy Systems
- Science and Engineering Enterprise
- Secure our Nation
- Management and Operational Excellence





Importance of Fossil Fuels



Source: EIA Annual Energy Outlook 2011



Fossil Energy Portfolio

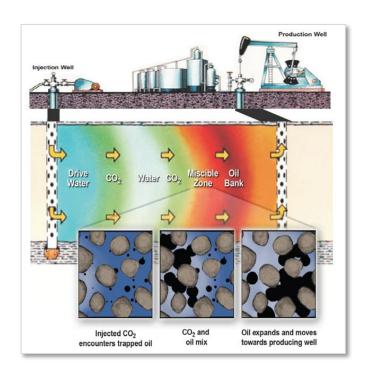
- Oil & Gas Technology R&D
- Petroleum Reserves
- Clean Coal Technology R&D
- National Energy Technology Laboratory
- International Collaboration



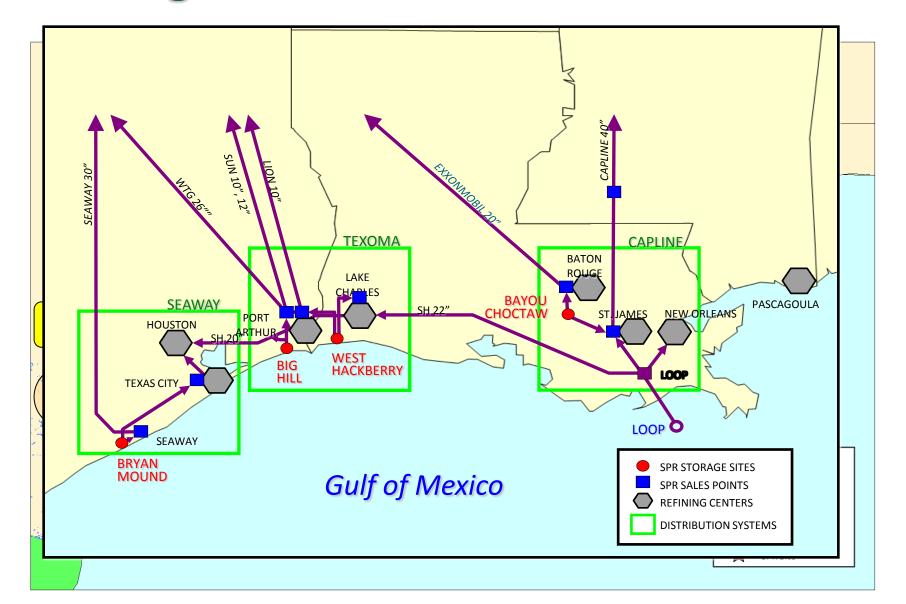


Oil and Gas

- Enhanced Oil Recovery
- Shale Gas
- Sustainability and Environmental Stewardship



Strategic Petroleum Reserve



Clean Coal - Major U.S. Demonstrations



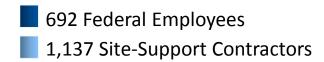
- Large-Scale Geologic CO2 Storage
- CO₂ Capture from Industrial Facilities
- Post-CombustionCapture
- IGCC with CO₂ Capture
- IGCC with Enhanced Oil Recovery
- Oxy-combustion

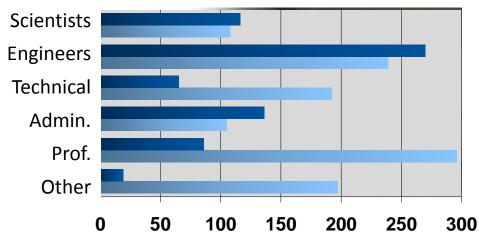
Advanced Technology for Carbon Capture, Utilization and Storage



National Energy Technology Laboratory

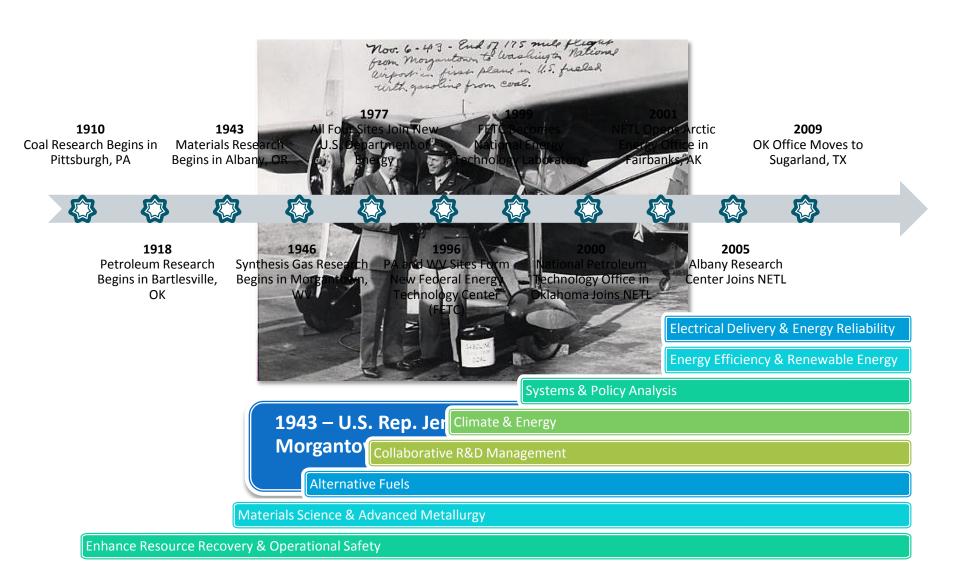








NETL – A Century of Innovation



NETL Research Partnerships







Regional University Alliance

Regional Carbon
Sequestration Partnerships

Clean Coal Power Initiative

FutureGen 2.0

National Carbon Capture Center

RPSEA









National Lab Partnerships















International Collaboration





International Collaboration

Key Bilateral Activities

U.S.-China Clean Energy Research Center

U.S.-India Coal Working Group

Global Carbon Capture and Storage Institute (Australia)



Key Multilateral Activities

Carbon Sequestration Leadership Forum

World Energy Council

International Energy Agency (various)



Return on Investment













\$13 Return for Every \$1 Invested 1.2 Million Jobs Created (2000-2020) 25 Million Tons of Avoided NO_x Emissions 2 Million Tons of Avoided SO₂ Emissions 850 Patents (1978-2010) \$1.3 Trillion Estimated Health Benefits from Reduced Pollution



In Conclusion...

- Competition for Global Resources
- Global Environmental Trends and Policies
- Technology Demonstrations
- Commercial Scale

Create a Compelling Choice for Fossil Energy that is Game-Changing and Sustainable

