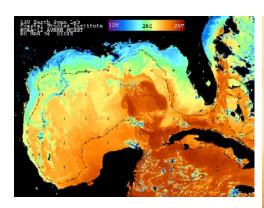
Developing & Supporting Critical Energy Infrastructure Offshore











National Ocean Industries Association

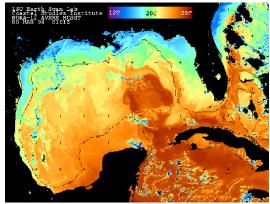
Michael Kearns Director of Public Affairs

www.noia.org

NOIA represents the full spectrum of U.S. businesses that produce energy from the offshore













Demand for Oil and Natural Gas is on the Rise

Figure 95. Petroleum supply, consumption, and imports, 1970-2025 (million barrels per day)

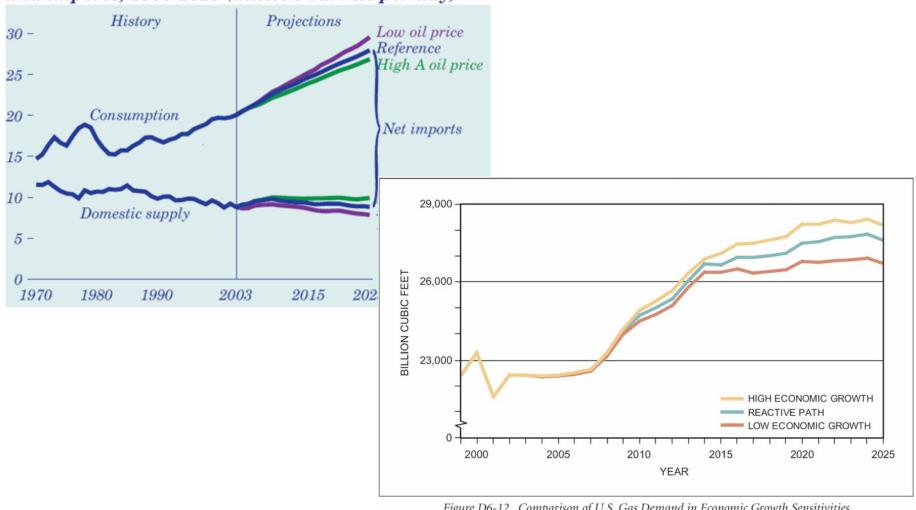
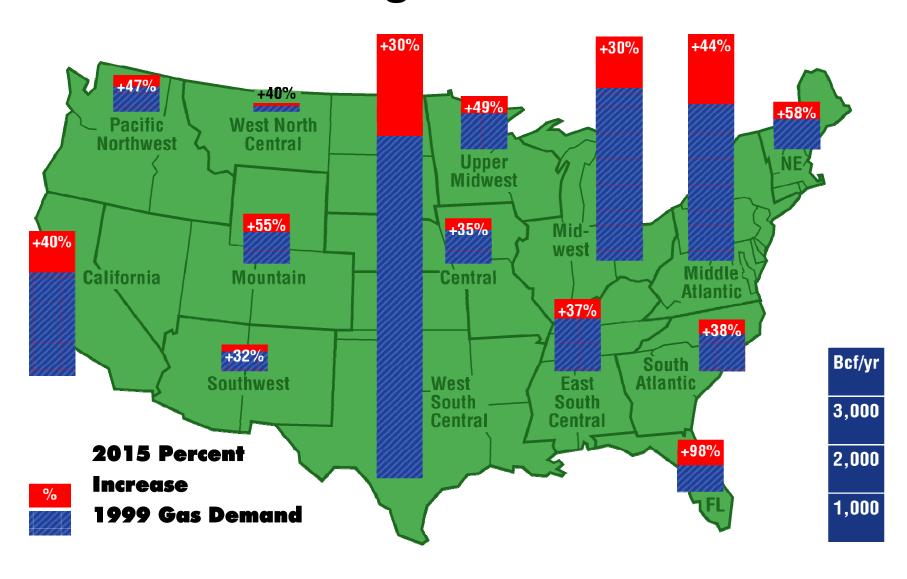


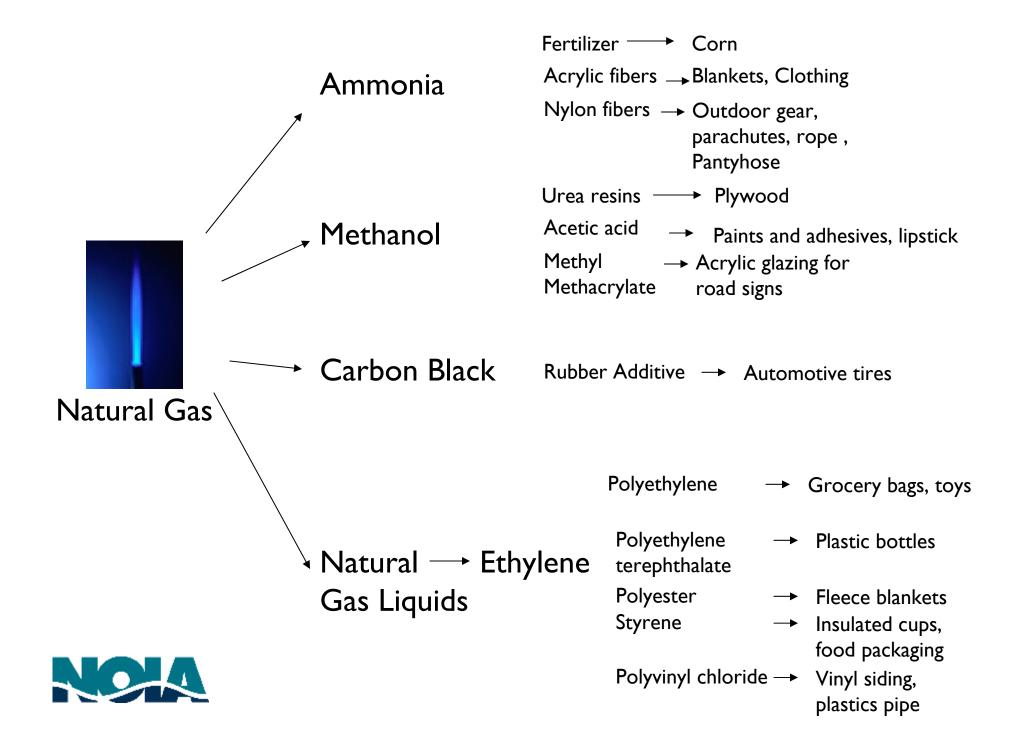


Figure D6-12. Comparison of U.S. Gas Demand in Economic Growth Sensitivities

Source: Energy Information Administration; Annual Energy Outlook

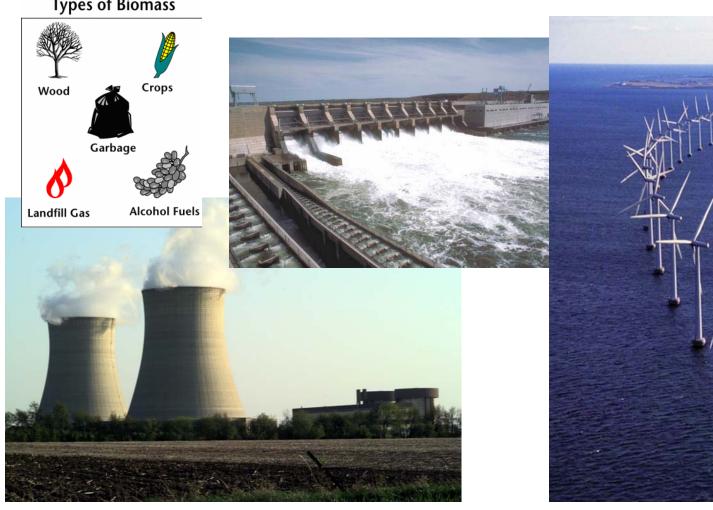
Example: Natural Gas Demand will Increase in All Regions





Renewable sources alone cannot meet rising demand

Types of Biomass



The Offshore Industry and the Economy

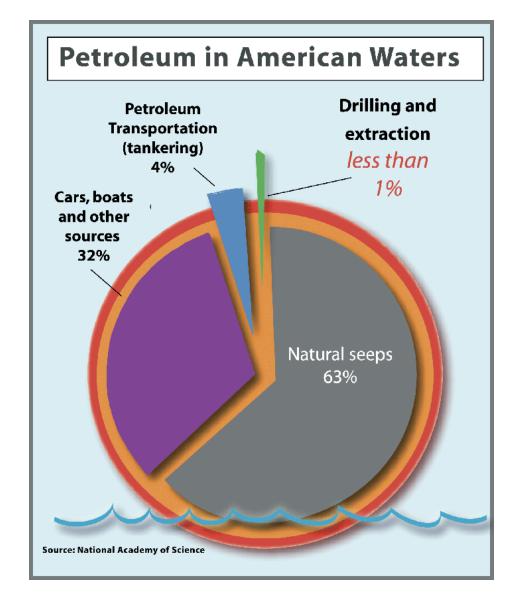


A Direct Source of Jobs and Economic Development:

- In the Gulf of Mexico, oil and gas activities on the OCS directly employ 85,000 people.
- Indirectly, OCS activity accounts for an additional 85,000 support jobs, many from small business vendors.
- These are good jobs: wages in the oil & natural gas industry are 30% higher than average income.
- These are safe jobs: Government statistics show that the injury and illness rate for offshore workers is about 70 percent lower than all of private industry.

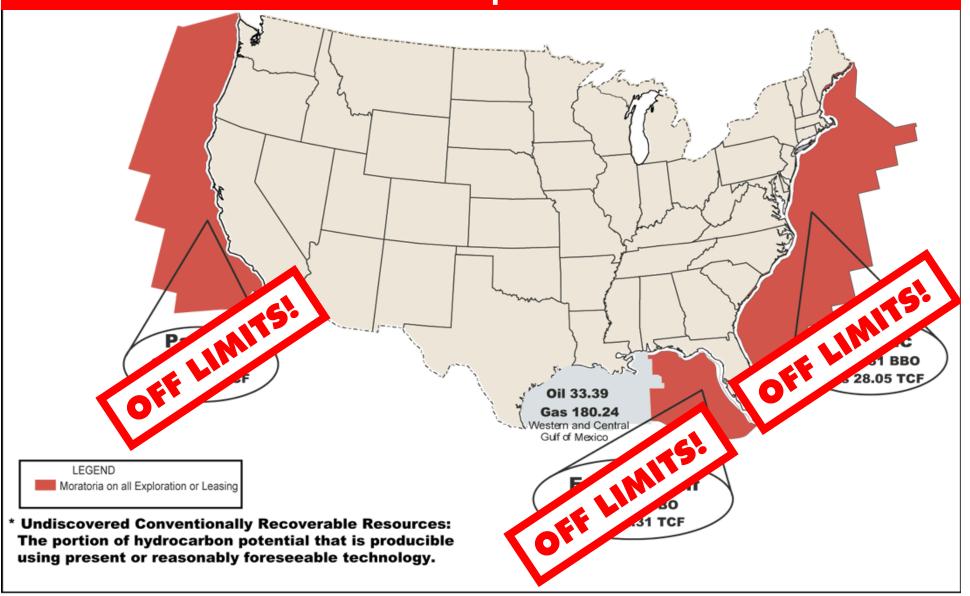
Safety and Offshore Energy

- Enviable Record of Environmental Performance
- Continuous improvements in safety and environmentally sensitive operations
- MMS conducts 12,000 inspections annually

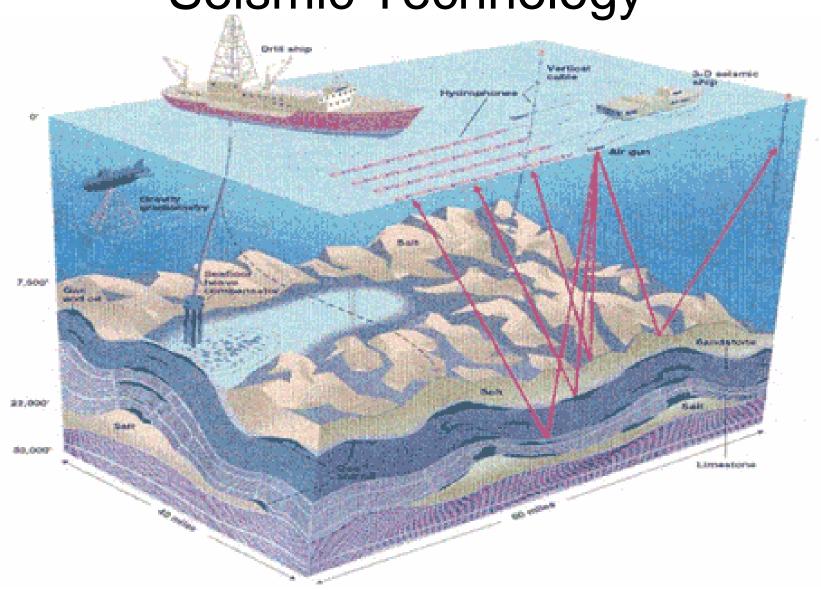




Less than 19% of OCS is Open to Development

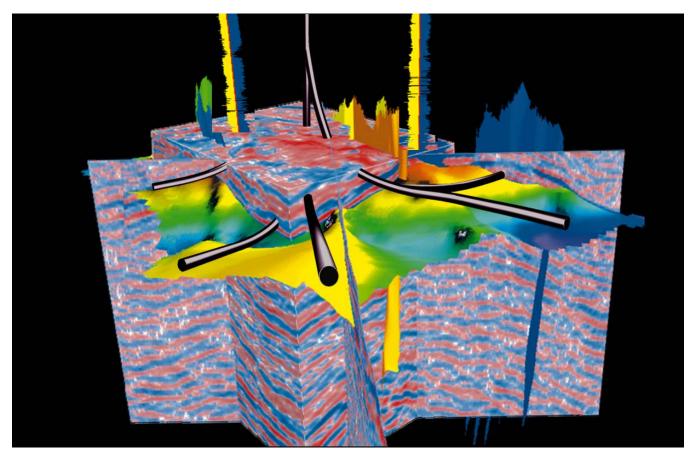


An Overview of Exploration: Seismic Technology



An Overview of Exploration: Geologic & Geophysical Analysis

 Advances in computing power lead to 3-D and 4-D analysis and more targeted drilling



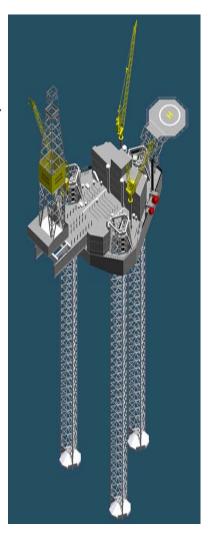


An Overview of Exploration: Drilling Wells

Drill Ships Reach Record Depths: In 2004, Transocean's *Discoverer*Deep Seas drilled a well nearly 200 miles from Galveston, Texas in 10,011' tvd

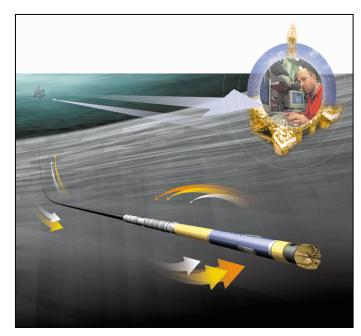




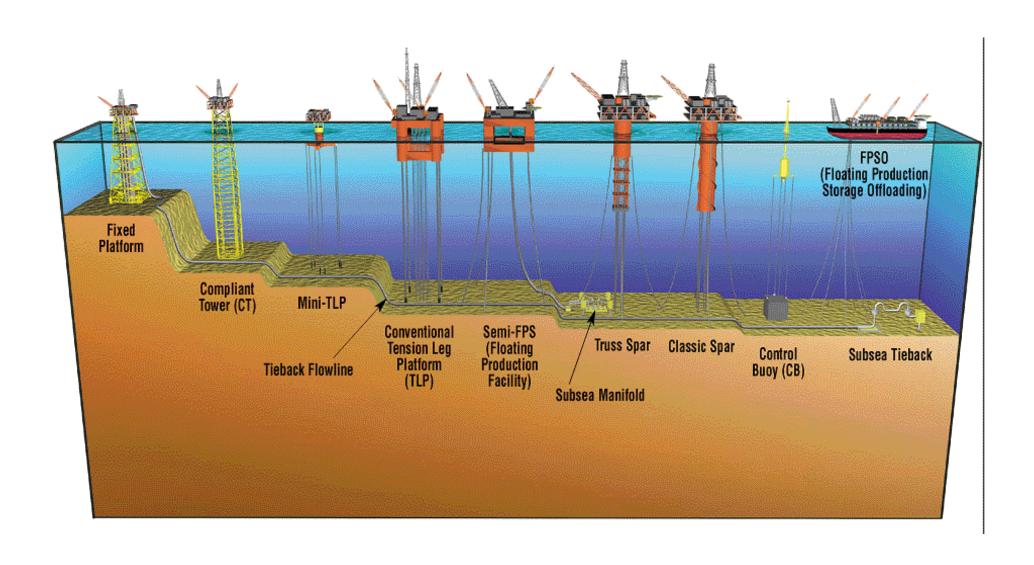


Directional drilling:

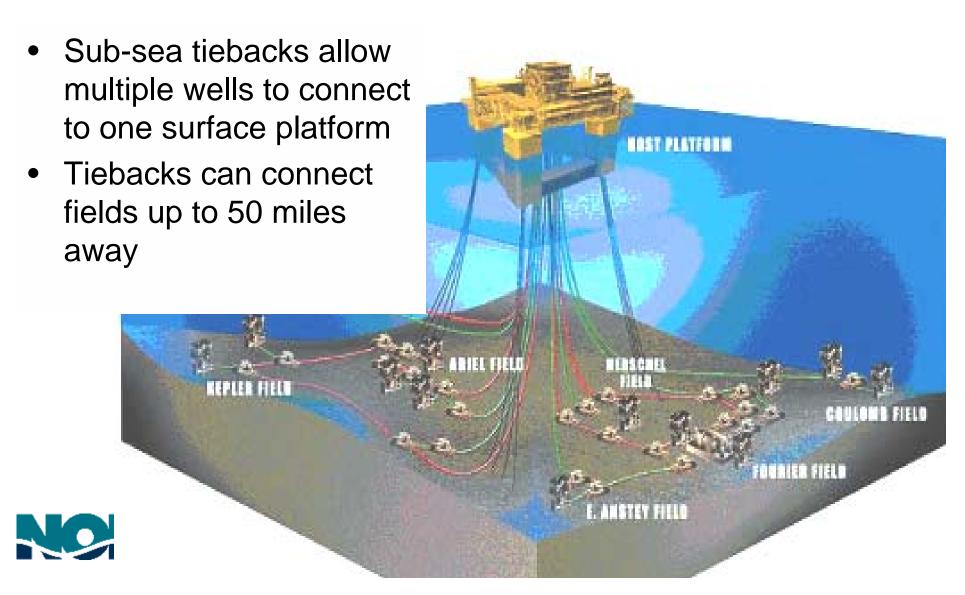
Real-time data improves drilling accuracy/speed



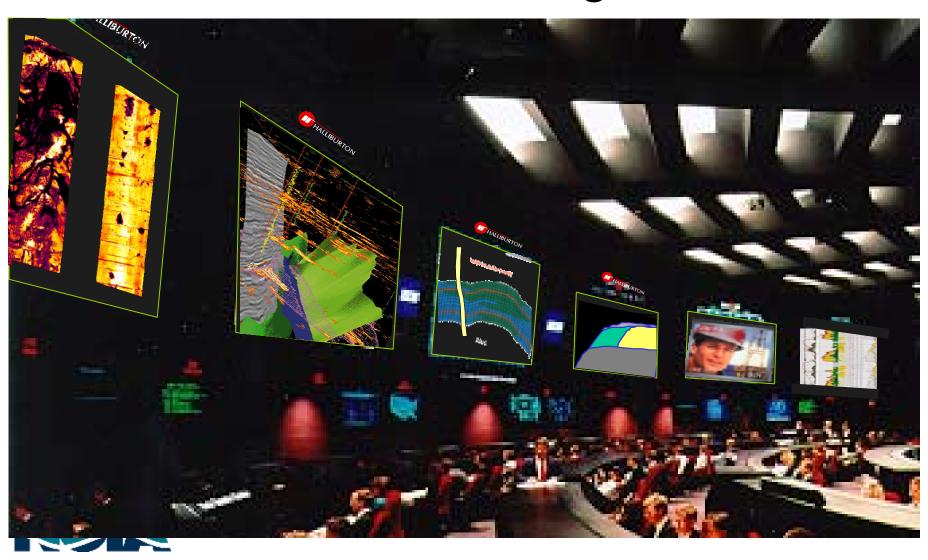
An Overview of Production: Different Types of Platforms



An Overview of Production: Sub-sea Tie-back Wells



Overview of Production: Smart Well Management



Overview of Production: Pipelines

ROV'S (Remotely Operated Vehicle)
and AUV'S (Autonomous
Underwater Vehicle) are vital
to construction and
safety inspections





Overview of Post-Production: Decommissioning/Removal of Structures

Required Steps:

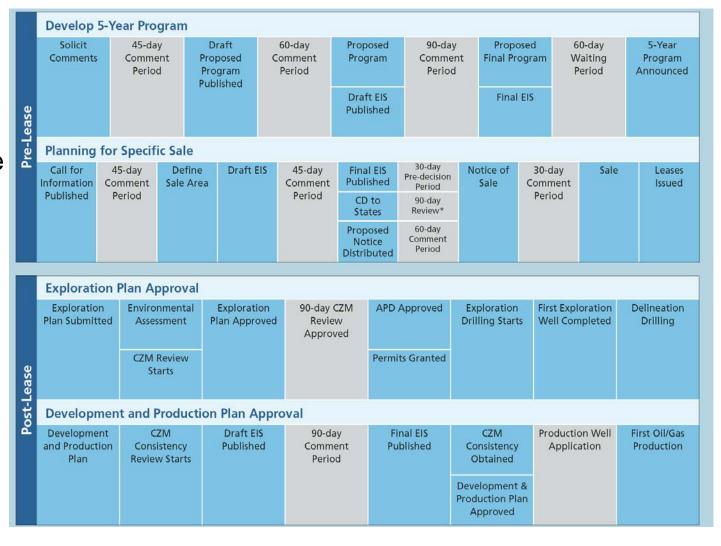
- Companies must meet financial criteria and bonding requirement
- Condition surveys & engineering asbuilt data collation
- Purging/cleaning production fluids
- Planning/engineering of removal & transportation
- Mobilization of derrick barge & transportation vessels
- Cutting/severing of platform components
- Lifting, back loading & sea fastening of components
- Transportation, off loading & scrapping, reefing / storage of components
- Post-removal surveys & seabed debris removal





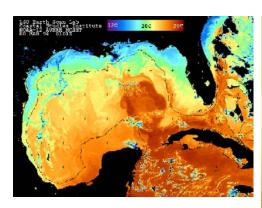
OCS Activity is governed by a thorough, multiphase, public regulatory process:

- 1. Preparation of the MMS 5-Year Plan
- 2. Specific Lease Sale Process
- 3. ExplorationPlanPreparation
- 4. Development and Production Planning





Developing & Supporting Critical Energy Infrastructure Offshore











National Ocean Industries Association

Michael Kearns Director of Public Affairs

www.noia.org