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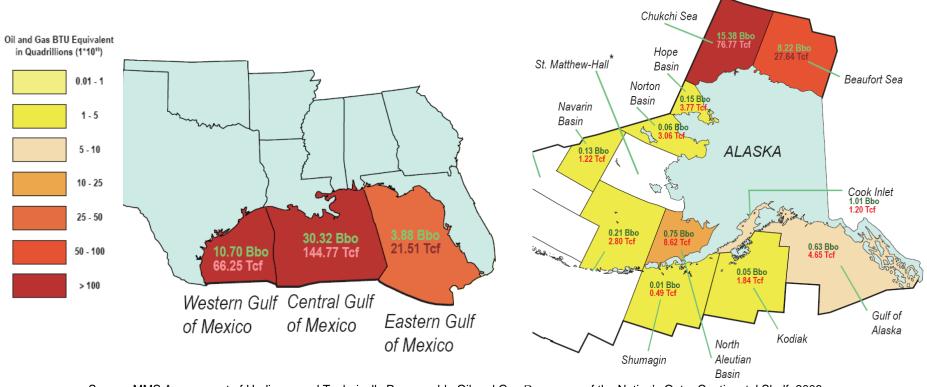
Oil & Gas Overview

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Resource Base Potential

- Large hydrocarbon resources in the Arctic and deepwater Gulf of Mexico
- High-level interest from the Oil & Gas industry
- Added complexity due to challenging offshore environments



Source: MMS Assessment of Undiscovered Technically Recoverable Oil and Gas Resources of the Nation's Outer Continental Shelf, 2006

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Deepwater Marine Activities

Floating Drilling

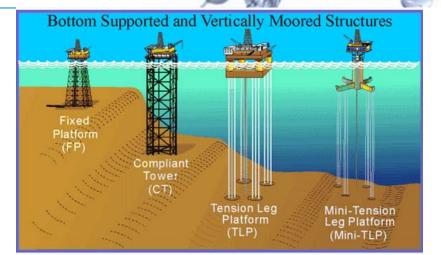
- Stationkeeping
- Re-supply
- Well maintenance/workover

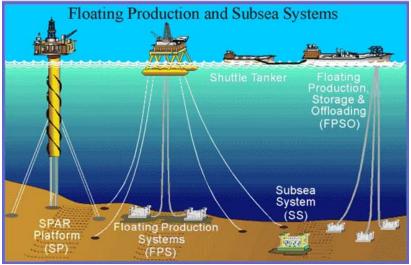
Floating Production

- Stationkeeping
- Well maintenance
- Offloading

Subsea Production

- Well reliability
- Well maintenance
- Subsea equipment

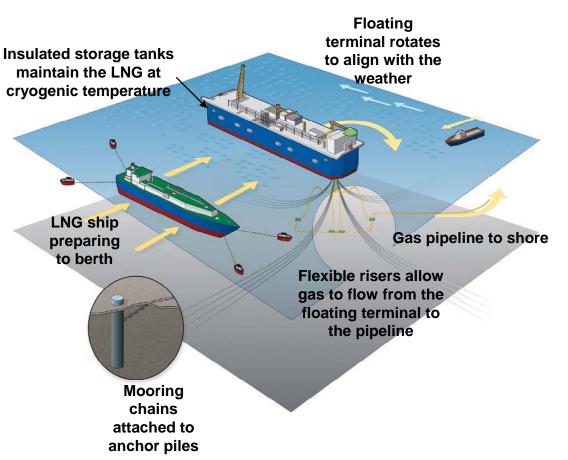




Source: MMS webpage, Deepwater Development Systems

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Offshore LNG Terminals



Offshore LNG receiving terminals as an alternative to onshore terminals

- Potential to provide additional energy source to key markets
- Especially in regions where onshore terminal sites are not readily available

Offshore siting considerations include:

- water depth, metocean conditions
- shipping lanes, commercial and recreational fishing
- environmental impacts

Marine safety and security considerations include safety and security zones and coordination of marine operations

ExxonMobil BlueOcean Energy Project offshore NJ/NY

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Arctic Marine Activities

Seismic Data Acquisition

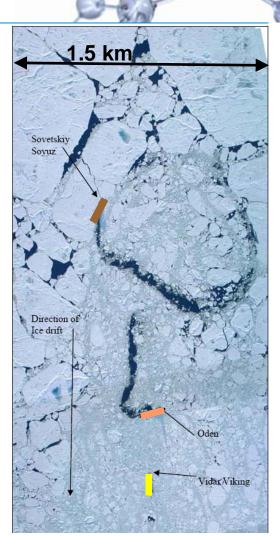
- Seismic acquisition vessel
- Support and scouting vessels
- Icebreaker escort for entry/exit

Exploration Drilling

- Arctic drilling unit
- Icebreaking escort and ice management vessels
- Re-supply and crew change vessels
- Helicopter ice reconnaissance

Arctic Construction Support

- Sea transports to support pipeline projects
- Barges, tugs, icebreaker escort



ACEX2004: Geotechnical drilling operation with ice management

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