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## Primer Outline

1. Introduction
2. Energy, Geology and Geophysics: Conventional (Potter)
3. Petroleum Engineerina: Conventional (Troutman)
4. Unconventional Hydrocarbon Resources (Potter \& Troutman)
5. Host Country instruments (HCi's)(Vvagner)(LUNCH)
6. International Energy Project Economics (Troutman)
7. Co-Venture Formation and Agreements (Wagner)
8. Co-Venture Economics: The Power of Leverage (Troutman)
9. Co-Venture Operations (Wagner)
10. Summary and Q\&A (Troutman, Potter and Wagner)

## Global Shale Gas Potential Estimates (Excluding U.S.)



## Global Shale Gas Activity



## Shale Gas Summary

- Shale development will be a major source of production and reserves for several decades.
- Commercial terms and investment economics must be competitive and predictable.
$\ominus$ All shales are not created equal and each shale has variable technical differences.
$\Theta$ Industry approach requires creativity and innovation, new technical evaluation and modeling, integration methods, rigs, completion techniques and scale for commercial development.
$\theta$ Full development requires significant resource intensity:
a People
- Capital
- Rigs

Completion equipment

- Water

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## Title search: Unconventional Hydrocarbon Resources

Also available as part of the eCourse Answer Bar: Navigating an International Energy Project

First appeared as part of the conference materials for the 2015 Primer: The Law, Science and Finance of International Energy Projects session "Unconventional Hydrocarbon Resources"

