Primer: The Law, Science and Finance of International Energy Projects Part 6: International Energy Project Economics

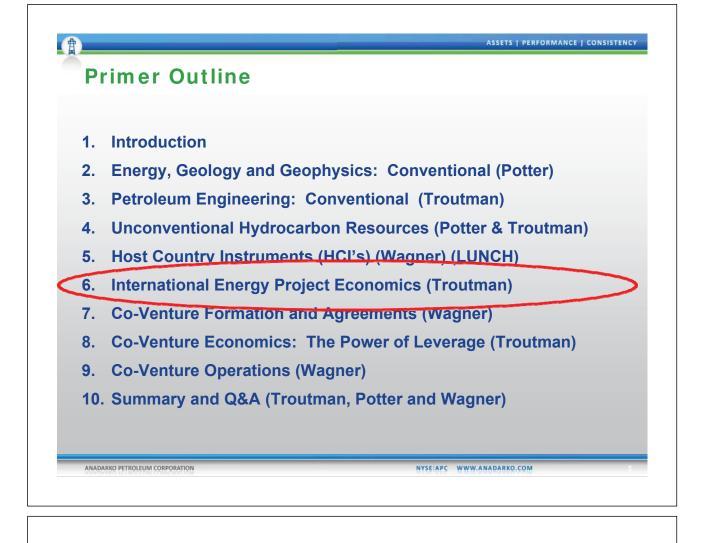
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Key Takeways Capital Requirements are substantial Complex technology Long lead times (5 to 10 years) Substantial capital (typically millions to billions of \$\$) Financial Investments must compete (Portfolio) Must deliver shareholder return Weigh financial risk to reward • Economically quantify the opportunity Understand country fiscal regimes Risk assessment critical Above ground risk Political Stability Contractual (or Fiscal) Stability • Operational (or Security) manageable Subsurface risk (geologic)

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Economic Tools

Discounted Cash Flow Analysis used to compare opportunities

- Time value of money (a \$ today better than a \$ tomorrow)
- Forecast cost
- Forecast revenue
- Estimate risk



Main Measurements of Economic Attractiveness

- Materiality Cash returned minus the investment required (net expected value)
- Capital Efficiency Cash Returned for each dollar invested (profit/investment)
- Timing How quickly an investment is recovered (rate-of-return)

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