







NOC Breakeven Costs 2011-2013

CNOOC, Ecopetrol, Petronas, Rosneft, Sinopec, Statoil, PdVSA, Petrobras, PetroChina, Pemex, ONGC

NOC Sample Characteristics

- Companies represented 23-24% of EIA World Oil Production 2011-2013
- Companies' oil production was 73% of total production 2011-2013
- Companies' reserve replacement ratio 2011-2013 was 192% due to large acquisitions by CNOOC, Petronas and Rosneft
- High quality financial and operational reporting (SEC Form 20Fs or comparable)
- Companies exploration and production segment EBIT averaged 105% of total EBIT in 2013
- 10 companies' long term debt/equity averaged 35% in 2013;
 Pemex had negative equity



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(\$/BOE)			
Finding & Development Costs (3 Year Rolling Average)	Annual Cash Operating Expenses	Annual Fiscal Contribution to the State	Annual 10% ROI OR Annual Capital Expenditures
(Total \$ Costs Incurred for Exploration, Development & Acquisitions)/(BOE Net Revisions, Extensions & Discoveries, Enhanced Recovery & Acquisitions)	 Production Costs G & A and Marketing Other Operating Expenses Net Financial Expense 	 Production Taxes Cash Income Taxes Estimated Price Subsidies (refining losses) Dividends to state Social/economic development expenses 	 (Find. & Dev. Costs + Cash Op. Exp. + Fiscal Contribution) * 10% OR Total \$ Costs Incurred for Expl., Dev. & Acq.





