# Financial Review of the Global Oil and Natural Gas Industry: Third-quarter 2016















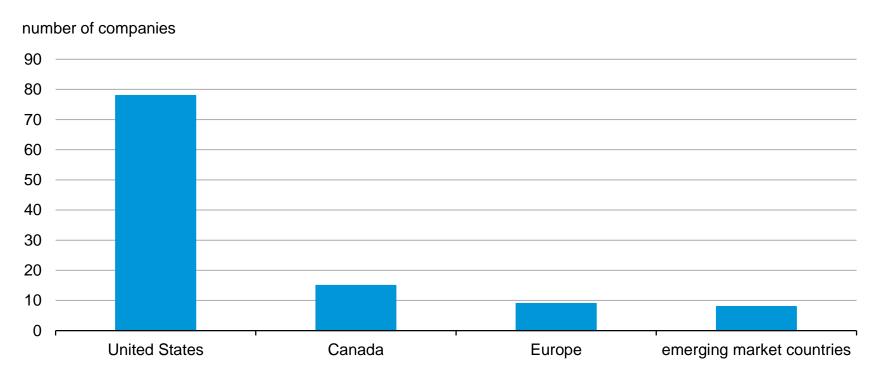
Markets and Financial Analysis Team

December 2016

### Key findings for third-quarter 2016

- Brent crude oil prices averaged 10% below the third quarter of 2015 and contributed to year-over-year declines in cash from operations and capital expenditures
- Reductions in capital expenditures contributed to a decline in production of petroleum liquids and natural gas compared to the third quarter of 2015
- Almost half of the energy companies reported positive earnings from upstream operations, the highest percentage since the 2011–14 period

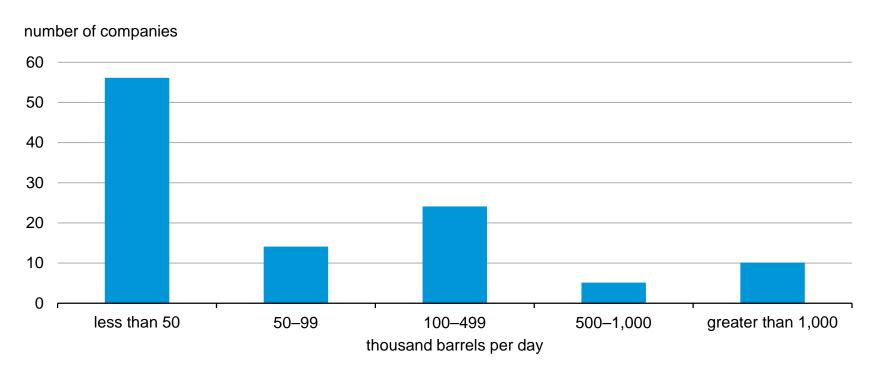
### Geographic distribution of global oil and natural gas companies, thirdquarter 2016







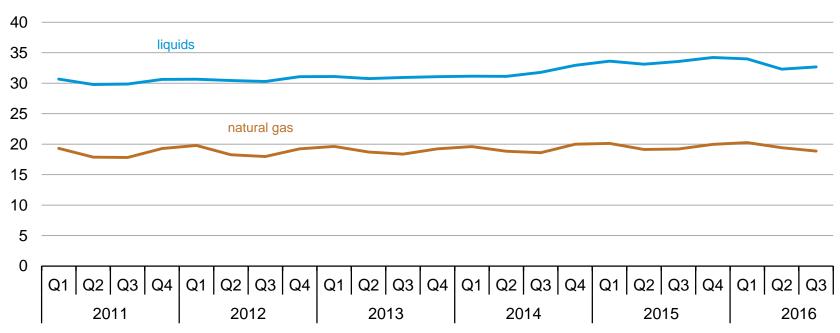
## Distribution of global energy companies by production of petroleum liquids, third-quarter 2016





#### Production from global oil and natural gas companies

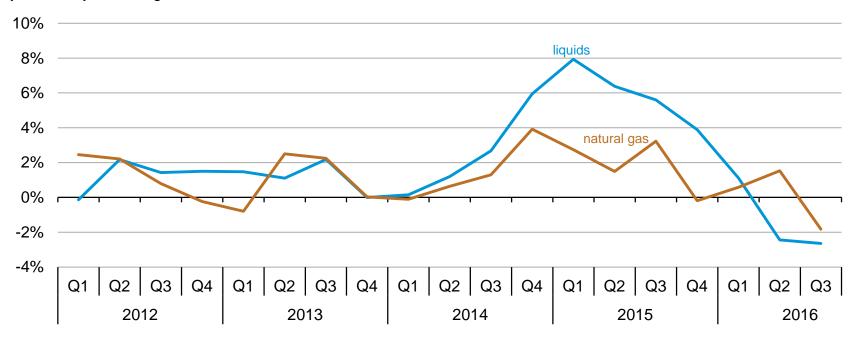
liquids and natural gas production million barrels of oil equivalent per day





## Global liquids production in third-quarter 2016 decreased 2.6%, and natural gas production decreased 1.8% from third-quarter 2015 levels

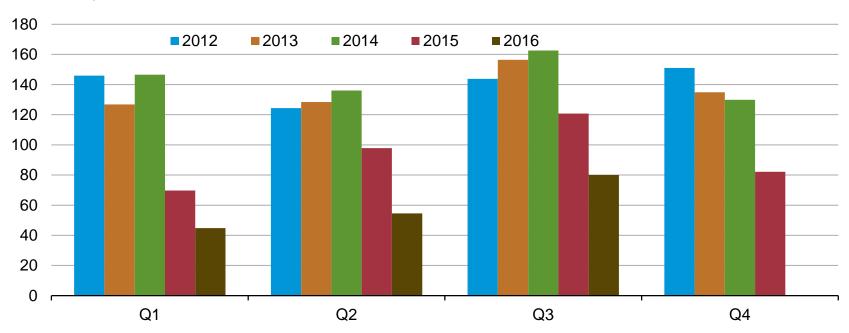
liquids and natural gas production year-over-year change





## Operating cash flow for energy companies declined 34% from third-quarter 2015 to \$80 billion in third-quarter 2016

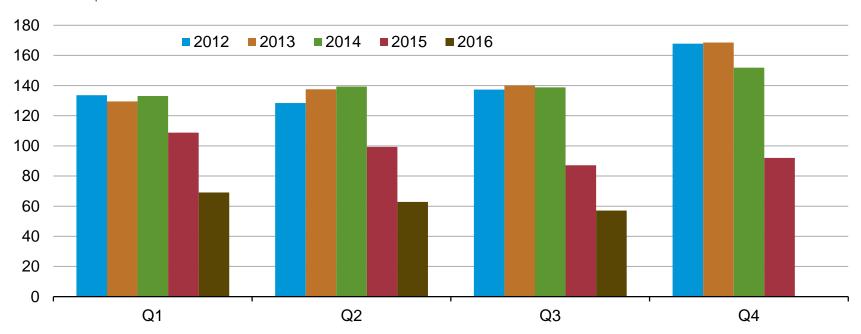
cash from operations billion 2016\$





## Capital expenditure in third-quarter 2016 totaled \$57 billion, 35% lower than in third-quarter 2015

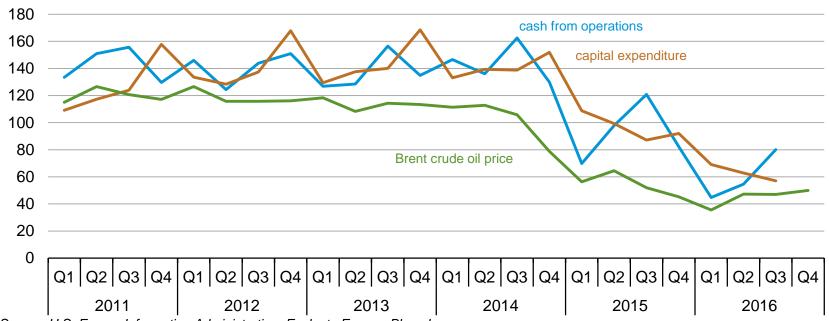
capital expenditure billion 2016\$





## Capital expenditure declines slowed and cash from operations increased from the second quarter of 2016 as crude oil prices stabilized

cash flow items and Brent price billion 2016\$; Brent in 2016 \$/b



Source: U.S. Energy Information Administration, Evaluate Energy, Bloomberg

Note: b=barrel

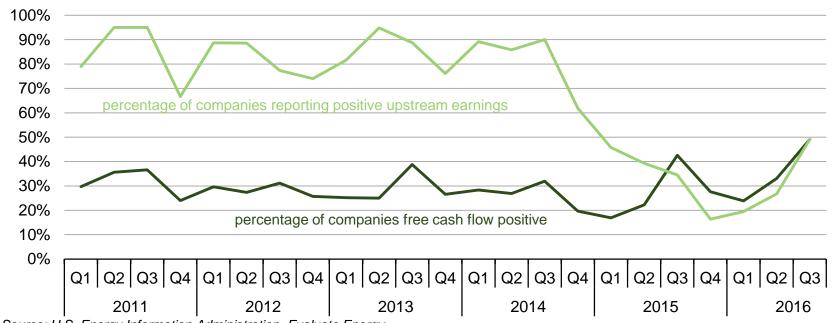


### Cash flow was more than \$19 billion less than capital expenditure for the four quarters ending September 30, 2016

annualized cash flow items billion 2016\$ 650 600 annualized capital expenditure 550 annualized cash from operations 500 450 400 350 300 250 Q1 Q1 Q4 Q1 2013 2014 2016



## Almost half of companies were free cash flow positive and reported positive earnings from upstream operations in the third quarter of 2016



Source: U.S. Energy Information Administration, Evaluate Energy

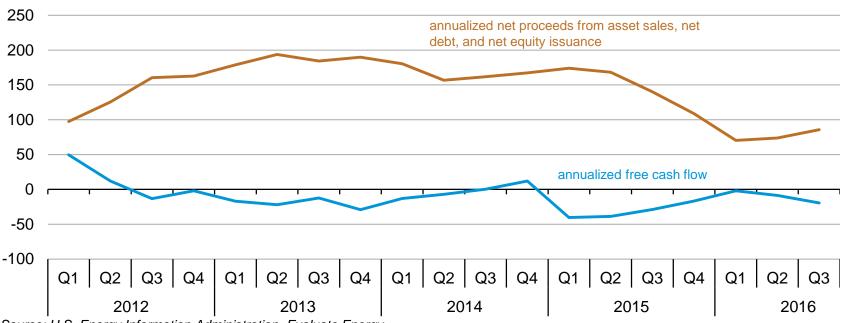
Note: free cash flow=cash from operations minus capital expenditure



## Companies raised \$86 billion from asset sales, debt issuance, and equity issuance for the four quarters ending September 30, 2016

annualized cash flow items





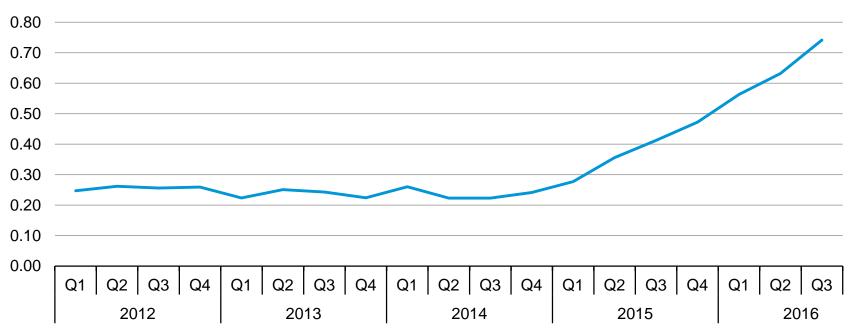
Source: U.S. Energy Information Administration, Evaluate Energy

Note: free cash flow=cash from operations minus capital expenditure



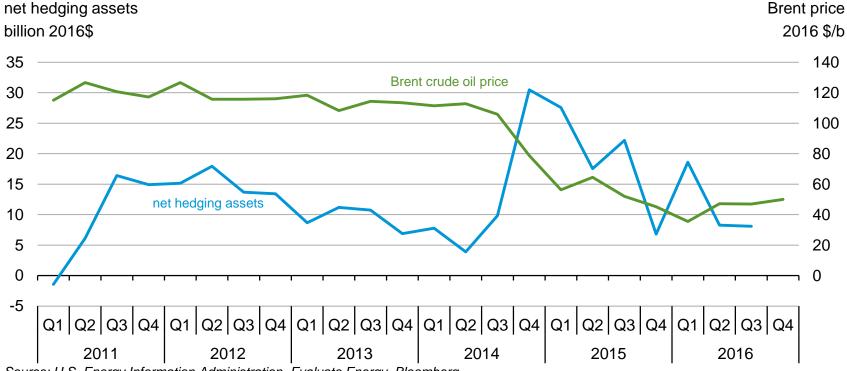
## Debt servicing payments as a share of operating cash flow increased as cash flow declined and companies refinanced

Annualized ratio of debt repayments to cash flow





### Net hedging assets, which tend to increase in value when oil prices decline, decreased slightly from second-quarter 2016 to third-quarter 2016



Source: U.S. Energy Information Administration, Evaluate Energy, Bloomberg

Note: b=barrel

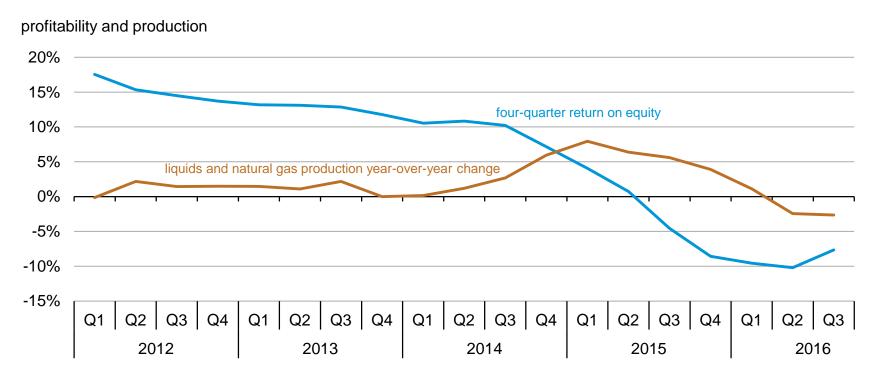


## Impairments fell to \$11 billion in third-quarter 2016, \$44 billion below third-quarter 2015

impairments billion 2016\$ 120 100 80 60 40 20 Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 Q1 Q2 | Q3 | Q4 | Q2 | Q3 | Q4 Q1 | Q2 | Q3 2012 2013 2014 2015 2016 2011



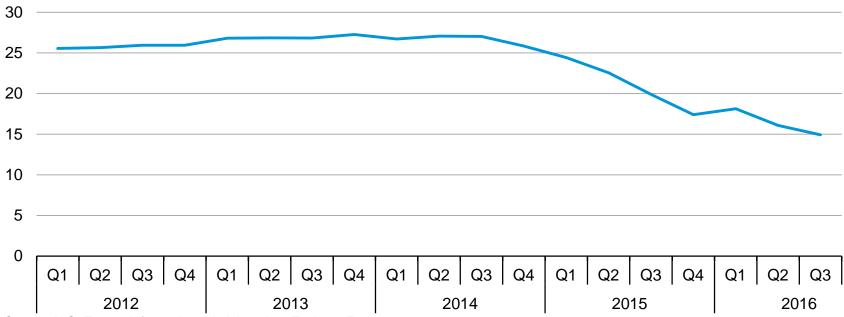
## Falling profits for the energy companies contributed to declines in production of petroleum liquids and natural gas





### Upstream investment in third-quarter 2016 on a per-barrel basis was the lowest since at least 2012

upstream capital expenditure per barrel of oil produced 2016 \$/boe, four-quarter moving average



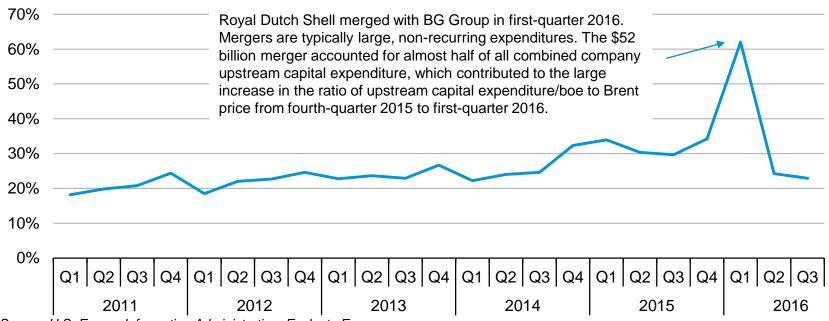
Source: U.S. Energy Information Administration, Evaluate Energy

Note: boe=barrel of oil equivalent



## The ratio of upstream capital expenditures to Brent prices fell to 23% in third-quarter 2016, similar to the ratio in 2012–14

ratio of upstream capital expenditures/boe to Brent price

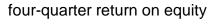


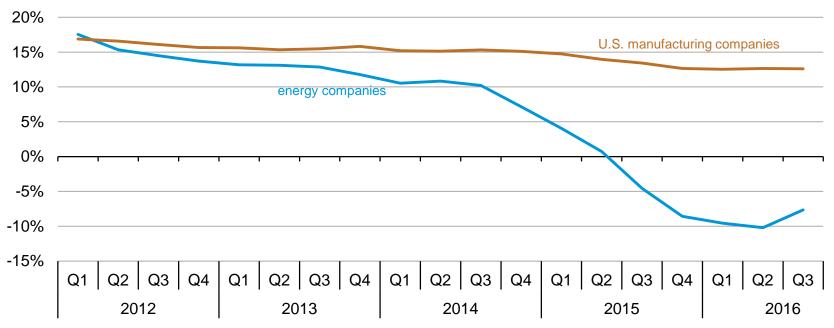
Source: U.S. Energy Information Administration, Evaluate Energy

Note: boe=barrel of oil equivalent



### Profits for global energy companies in third-quarter 2016 remained negative, while profits for U.S. manufacturing companies were stable

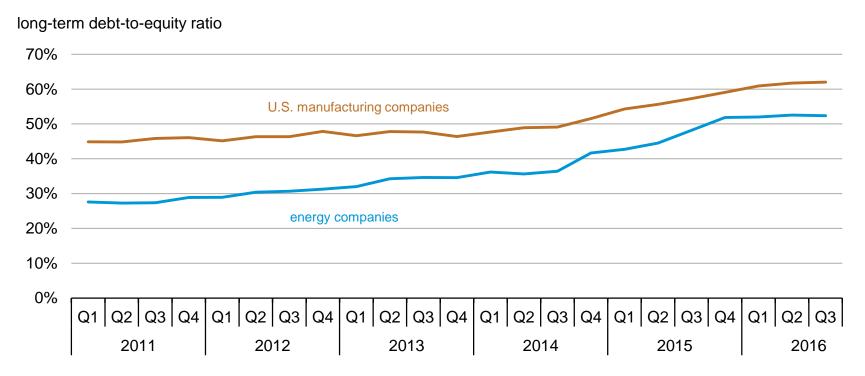




Source: U.S. Energy Information Administration, Evaluate Energy, U.S. Census Bureau



## Global energy companies' long-term debt-to-equity ratio remained near 53% for the fourth consecutive quarter

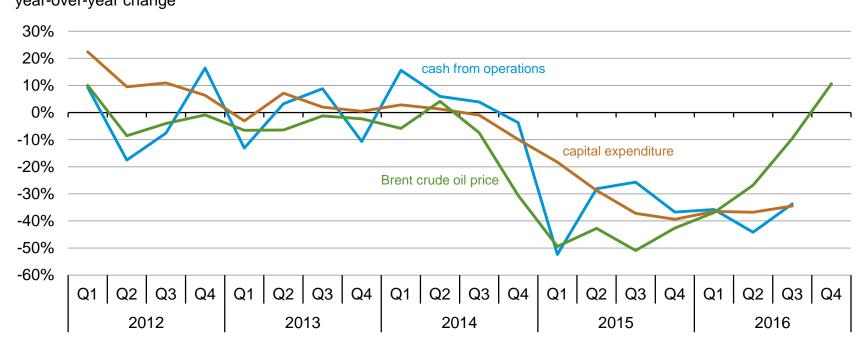


Source: U.S. Energy Information Administration, Evaluate Energy, U.S. Census Bureau



Cash flow could increase because fourth-quarter 2016 oil prices through December 12 are higher than fourth-quarter 2015 prices, the first year-over-year increase since 2014

cash flow items and Brent prices year-over-year change





#### Appendix: List of companies

Abraxas Petroleum Corporation Carrizo Oil & Gas. Inc Adams Resources & Energy Inc. Cenovus Energy Inc. Aker RP ASA Chesapeake Energy Corp. Anadarko Petroleum Corp. Chevron Corporation Antero Resources Corporation Cimarex Energy Co. Apache Corporation Clayton Williams Energy Approach Resources Inc. Comstock Resources Concho Resources Inc Arete Industries, Inc. Athlon Energy Inc. ConocoPhillips ATP Oil & Gas Corp. Contango Oil and Gas Company Harvest Natural Resources Inc. Northern Oil & Gas, Inc Bankers Petroleum Ltd Continental Resources Baytex Energy Corp. Denbury Resources Inc. Berry Petroleum Co. **Devon Energy Corporation BG Group** Diamondback Energy Inc. Bill Barrett Corporation Earthstone Energy Inc. BP Plc. Ecopetrol **BPZ** Resources Inc **Encana Corporation Breitburn Energy Partners Endeavour International Corp Brigham Exploration Company Energen Corp** California Resources Corporation Energy XXI Callon Petroleum **Enerplus Corporation** 

ENI

Canadian Natural Resources Limited EOG Resources

EP Energy Corporation EPL Oil & Gas Inc **ExxonMobil** Forest Oil Corporation Gazprom Neft Goodrich Petroleum Corp Gran Tierra Energy Inc. Gulfport Energy Corporation Halcon Resources Corporation Noble Energy Hess Corp Houston American Energy Corp Oasis Petroleum Inc. Husky Energy Inc. Imperial Oil Limited Isramco, Inc Ithaca Energy Inc. Jones Energy, Inc. Kodiak Oil & Gas Corp. Kosmos Energy Laredo Petroleum Lilis Energy Inc. Linn Energy

Magnum Hunter Resources Marathon Oil Corp. Matador Resources Company Memorial Production Partners LP Mid-Con Energy Partners, LP Murphy Oil Corporation Newfield Exploration Company Novatek Occidental Petroleum Corporation OMV Pacific Exploration and Production Corporation Parsley Energy Inc. PDC Energy, Inc. PEDEVCO Corp. Penn Virginia Penn West Petroleum Ltd. Petrobras (IFRS US\$ Current) PetroChina

PetroMagdalena Energy Corp.

Lundin Petroleum

Petrominerales Ltd. PetroQuest Energy, Inc. Pioneer Natural Resources Company QEP Resources Inc Range Resources Corp Repsol Repsol Oil & Gas Canada Inc. Resolute Energy Corporation Ring Energy Inc Rosetta Resources Inc. Rosneft Royal Dutch Shell RSP Permian Inc. Sabine Oil & Gas Corporation Sanchez Energy Corp SandRidge Energy SM Energy Company Sonde Resources Corp. Statoil ASA Stone Energy Suncor Energy Inc. Swift Energy Co Synergy Resources Corporation

T-Rex Oil. Inc. Thunderbird Resources Equity Inc. TNK-BP International Ltd Total TransAtlantic Petroleum Ltd. TransGlobe Energy Corporation Triangle Petroleum Corporation Unit Corp Vaalco Energy Inc Vanguard Natural Resources LLC Vermilion Energy Inc. W & T Offshore Whiting Petroleum Corporation WPX Energy YPF Sociedad Anonima

Yuma Energy, Inc.

Source: U.S. Energy Information Administration, Evaluate Energy

Note: Some companies merged or split before 2016. A total of 110 companies existed in third-quarter 2016.

Lukoil (IFRS)



Canacol Energy Ltd.

### Background

- This analysis focuses on the financial and operating trends of 110 global oil and natural gas companies (called *energy companies*)
- The data come from the public financial statements each company submits to the U.S. Securities and Exchange Commission, which a data service (Evaluate Energy) aggregates for ease of data analysis
- Several charts show comparisons between energy companies and the U.S. manufacturing industry, collected from U.S. Census Bureau's Quarterly Financial Report
- For consistency, an energy company's assets that were acquired by another company in the group after first-quarter 2011 were kept in the prior-year data



### Brief description of terms

- Cash from operations is a measure of income
- Capital expenditure represents cash used for property, plant, and equipment
- Financing activities measure inflows/outflows in debt or equity markets including dividends, share issuance or repurchases, and debt issuance or repayments
- Return on equity is a measure of the profit a company earns on money shareholders have invested
- Market capitalization is the total value of all of a company's publicly traded shares outstanding



### Brief description of terms

- Net income represents profit after taxes and depreciation
- Asset impairments occur when a company lowers the estimated value of a property to reflect current market value, which may result from loss of production potential or declining oil prices
- Upstream refers to crude oil exploration, production, and other operations prior to refining
- Downstream refers to refinery operations, product sales, and marketing at the wholesale and retail levels