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



Markets and Financial Analysis Team

July 2016



Independent Statistics & Analysis www.eia.gov

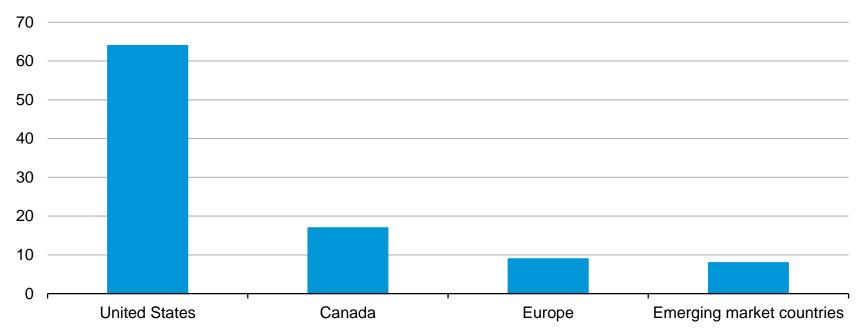
### Key findings for first-quarter 2016

- Brent crude oil prices averaged at the lowest level since 2004, significantly reducing profits and cash flow for energy companies.
- Production increased from year-ago levels, but growth is decelerating as companies reduced capital expenditure.
- Many companies were able to balance their capital expenditure with cash from operations.



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

number of companies

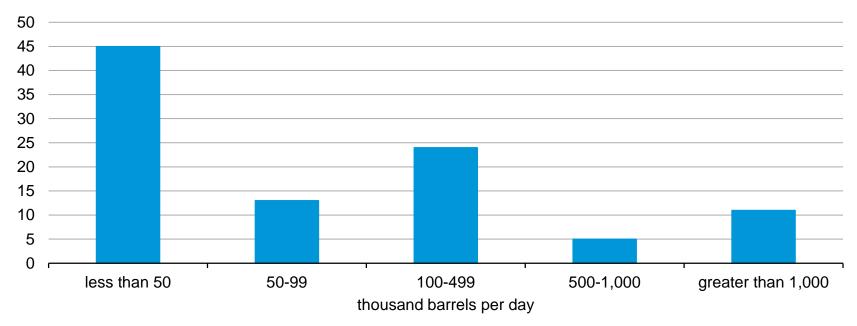


Source: U.S. Energy Information Administration, Evaluate Energy



#### Distribution of companies by production of petroleum liquids, firstquarter 2016

number of companies

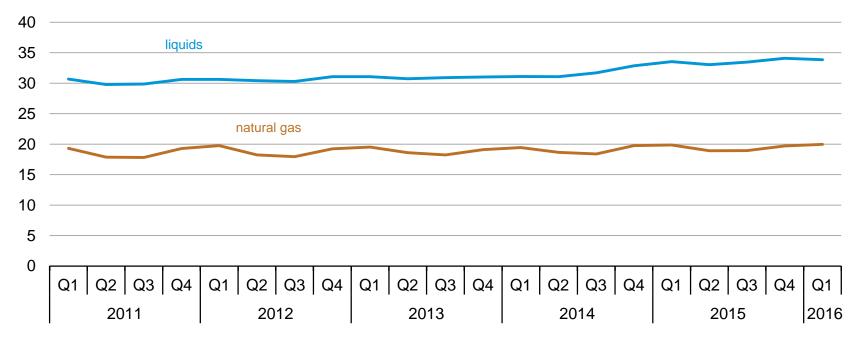


Source: U.S. Energy Information Administration, Evaluate Energy



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

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

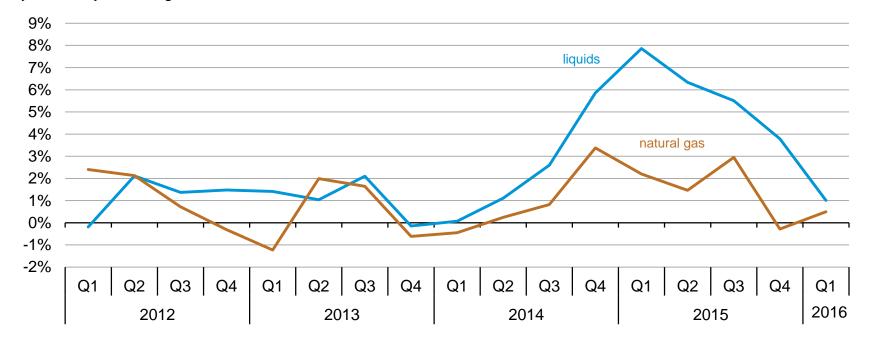


Source: U.S. Energy Information Administration, Evaluate Energy



# Liquids production increased 1% and natural gas production increased 0.3% in first-quarter 2016

oil and natural gas production year-over-year change

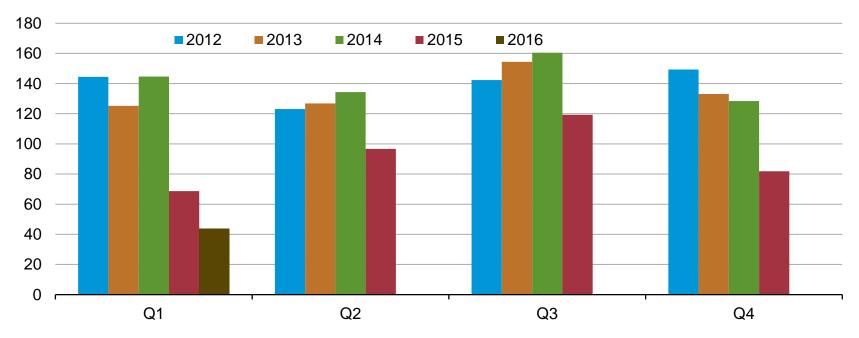


Source: U.S. Energy Information Administration, Evaluate Energy



### Operating cash flow declined to \$44 billion in first-quarter 2016

cash from operations billion 2016\$

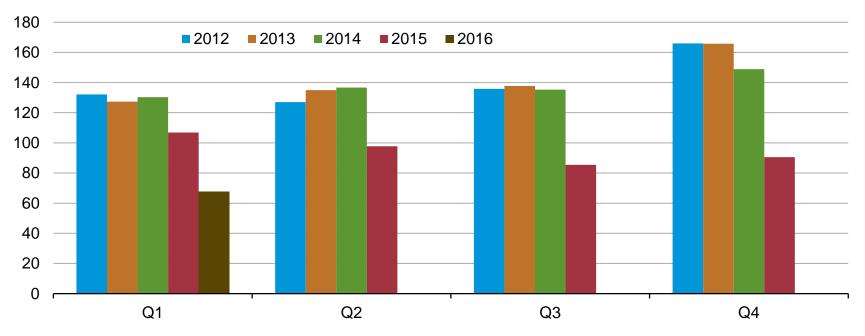


Source: U.S. Energy Information Administration, Evaluate Energy



# Capital expenditure in first-quarter 2016 totaled \$68 billion, 36% lower than the first quarter of 2015

capital expenditure billion 2016\$

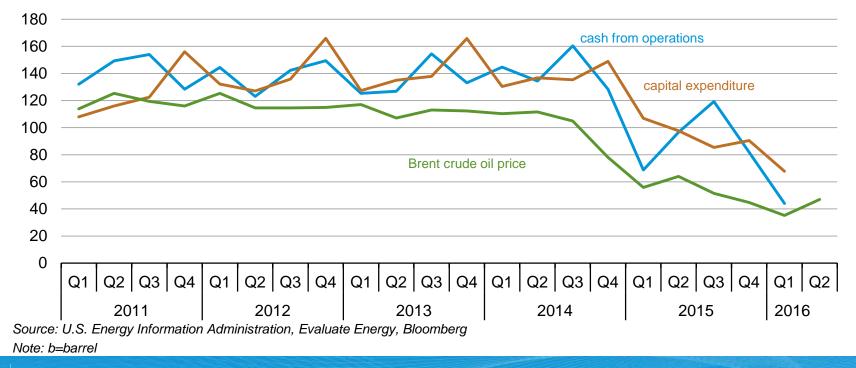


Source: U.S. Energy Information Administration, Evaluate Energy



#### Investment and cash flow continued to decline amid falling oil prices

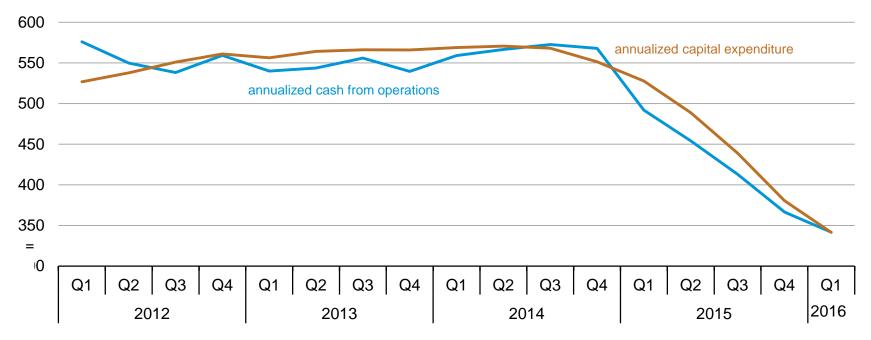
cash flow items and Brent price billion 2016\$; Brent in 2016 \$/b





### Cash flow and capital expenditures in first-quarter 2016 were the same for the first time since 2014

annualized cash flow items billion 2016\$

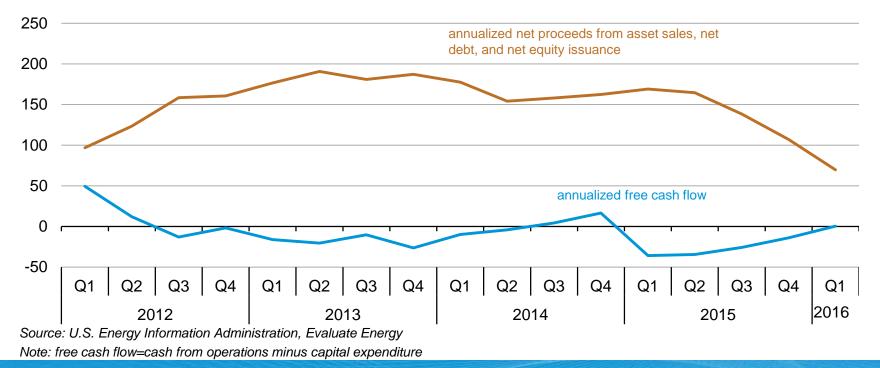


Source: U.S. Energy Information Administration, Evaluate Energy



# Higher free cash flow in first-quarter 2016 required the lowest amount of funding from asset sales, equity, or debt since 2012

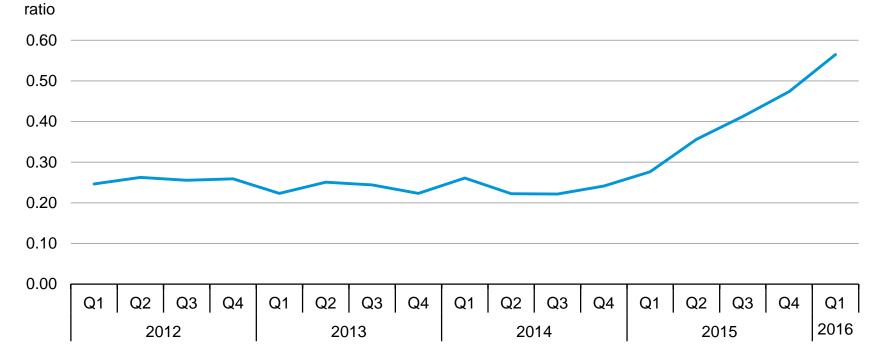
annualized cash flow items billion 2016\$



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

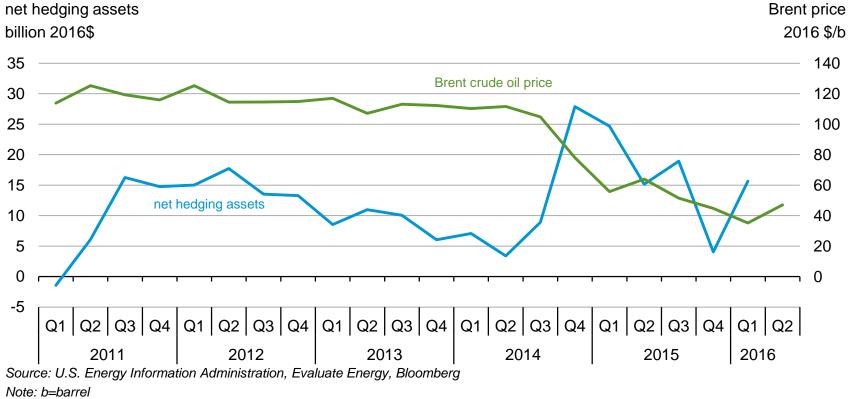
Annualized debt repayments to cash flow



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



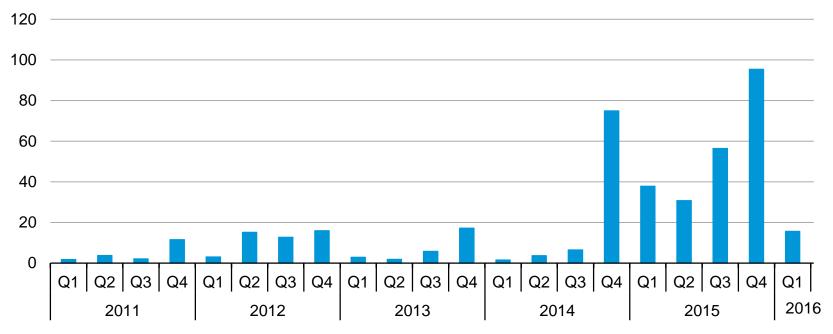
# Net hedging assets, which tend to increase in value when oil prices decline, increased \$11.6 billion since fourth-quarter 2015





### Asset write-downs fell to \$15.6 billion in first-quarter 2016, \$22 billion below first-quarter 2015

asset write-downs (impairment charges) billion 2016\$

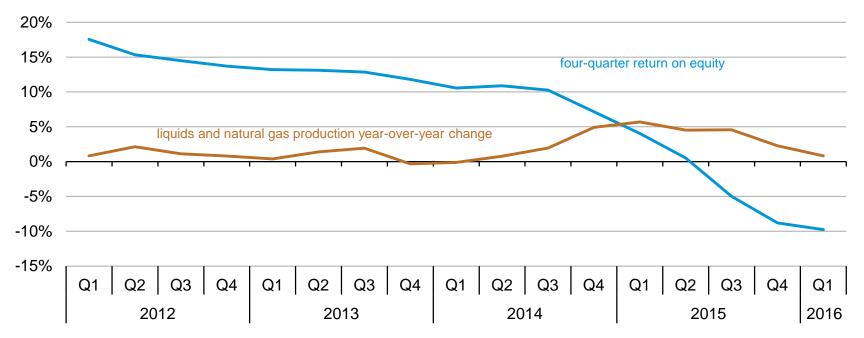


Source: U.S. Energy Information Administration, Evaluate Energy



#### Falling profits may result in production declines

profitability and production

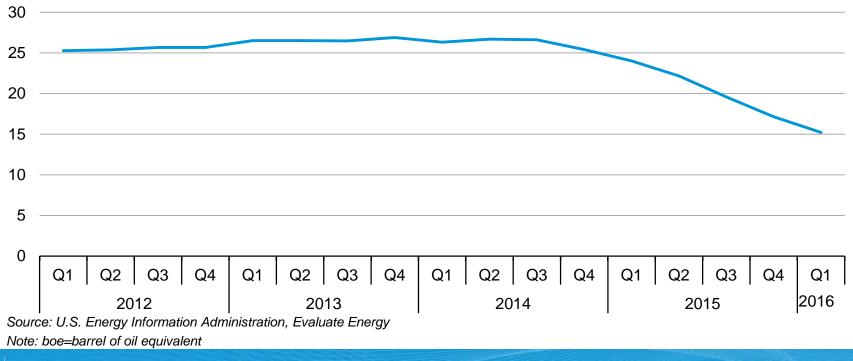


Source: U.S. Energy Information Administration, Evaluate Energy



# Upstream investment on a per-barrel basis is the lowest since at least 2012

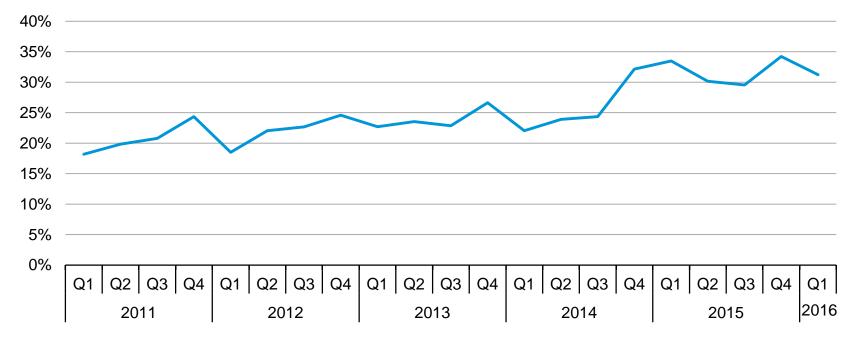
upstream capital expenditure per barrel of oil produced 2016 \$/boe four-quarter moving average





# A return to the 25% ratio of upstream capital expenditure to Brent prices would require further spending cuts or an increase in prices

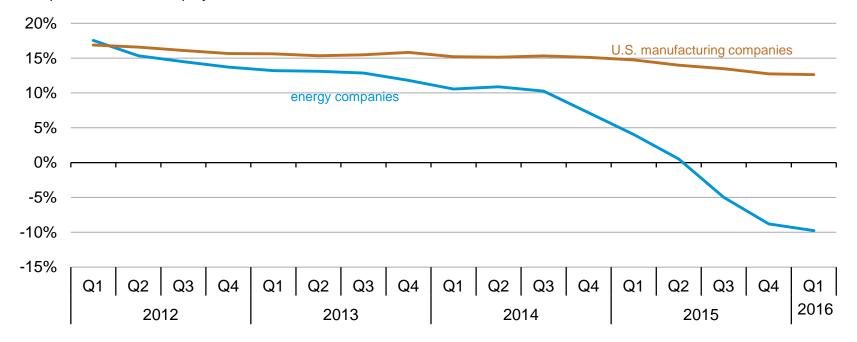
ratio of upstream capital expenditure/boe to Brent price



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



### Profits for energy companies and U.S. manufacturing companies continued to decline



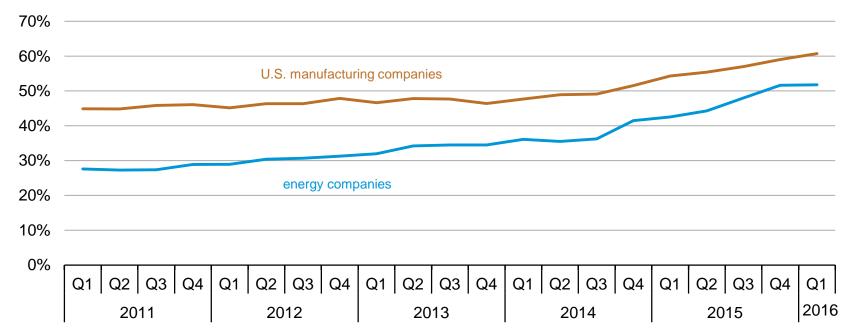
four-quarter return on equity

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



#### Leverage increased for U.S. manufacturing companies, but it was flat for energy companies since fourth-quarter 2015

long-term debt-to-equity



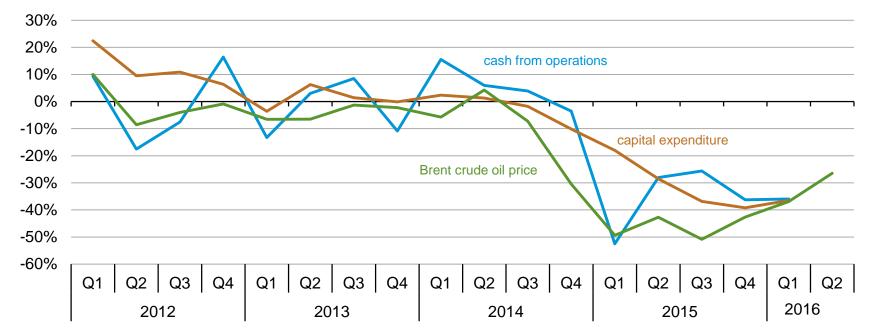
Source: U.S. Energy Information Administration, Evaluate Energy, U.S. Census Bureau



# Cash flow and capital expenditure may continue to decline if oil prices decline

cash flow items and Brent prices

year-over-year change



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



#### Appendix: List of companies

Anadarko Petroleum Corp. Apache Corporation Approach Resources Inc Athlon Energy Inc. ATP Oil & Gas Corp. **Bankers Petroleum Ltd** Baytex Energy Corp. Berry Petroleum Co. **BG Group** Bill Barrett Corporation BP PIC. BPZ Resources Inc Breitburn Energy Partners **Brigham Exploration Company** California Resources Corporation Callon Petroleum Canacol Energy Ltd. Canadian Natural Resources Limited Enerplus Corporation Carrizo Oil & Gas. Inc Cenovus Energy Inc.

Chesapeake Energy Corp. **Chevron Corporation** Cimarex Energy Co. Clayton Williams Energy Comstock Resources Concho Resources Inc ConocoPhillips Continental Resources Denbury Resources Inc. Det Norske **Devon Energy Corporation** Diamondback Energy Inc. Ecopetrol Encana Corporation Endeavour International Corp Kodiak Oil & Gas Corp. Energen Corp Energy XXI ENI 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 Novatek Hess Corp Husky Energy Inc. Imperial Oil Limited Ithaca Energy Inc. Jones Energy, Inc. Kosmos Energy Laredo Petroleum Linn Energy Lukoil (IFRS) Lundin Petroleum

Magnum Hunter Resources Marathon Oil Corp. Matador Resources Company Memorial Production Partners LP Murphy Oil Corporation Newfield Exploration Company Noble Energy Northern Oil & Gas. Inc Oasis Petroleum Inc. **Occidental Petroleum Corporation** OMV Pacific Exploration and Production Corporation Parsley Energy Inc. PDC Energy, Inc. Penn Virginia Penn West Petroleum Ltd. Petrobras (IFRS USS Current) PetroChina PetroMagdalena Energy Corp.

Petrominerales Ltd. PetroQuest Energy, Inc Pioneer Natural Resources Company QEP Resources Inc Range Resources Corp Repsol Repsol Oil & Gas Canada Inc. Resolute Energy Corporation 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 Thunderbird Resources Equity Inc. TNK-BP International Ltd Total TransAtlantic Petroleum Ltd. TransGlobe Energy Corporation Triangle Petroleum Corporation Unit Corp Vaalco Energy Inc Vermilion Energy Inc. W & T Offshore Whiting Petroleum Corporation WPX Energy YPF Sociedad Anonima

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

Note: Some companies merged or split before 2016. A total of 98 companies existed in first-guarter 2016.



### Background

- This analysis focuses on the financial and operating trends of 98 global oil and natural gas companies (called the *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.
- For consistency, a 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 (earnings) 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.
- The term upstream refers to crude oil exploration, production, and other operations prior to refining. The term downstream refers to refinery operations, product sales, and marketing at the wholesale and retail level.
- Several charts show comparisons between these upstream companies and the U.S. manufacturing industry, collected from U.S. Census Bureau's *Quarterly Financial Report.*

