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Energy & Resources Quarterly update

Q3 2018

Energy sector trends

Carbon free California – the landmark vote for the Golden State¹

California legislators recently voted on a mandate that, if approved by the State Senate and Governor, would require 100 percent of the state's electricity come from carbon-free sources by 2045. The mandate requires renewable sources to power 60 percent of the states electric utilities by 2030, up from the current target of 50 percent. California, only second to Hawaii, are the only states to call for carbon-free electricity by 2045.

Q3: A record breaking quarter for oil & gas M&A³

US oil & gas merger and acquisition (M&A) activity jumped by 250 percent from Q2 to Q3. This increase put the oil & gas M&A market for Q3 at a total of value of \$32 billion. The \$32 billion worth of M&A deals in Q3, which shattered previous quarters, was 76 percent higher than the quarterly average of \$18.3 billion since 2009. Q3 broke all quarterly records dating back to Q4 of 2012.

The utility market and fluctuation in natural gas prices²

Natural gas prices have softened again back to May's prices of \$2.70/MMBtu, which is a good thing for consumers. The price drop happened in spite of high power generation from natural gas resources that accompanied the high temperatures this summer. Robust gas production is one of the main catalysts for the price drop. Strong stockpiles are considered crucial to meeting the winter gas heating demands. Change needs to be made

in the industry update as well as per my previous comment.



Energy supply chain preps for active hurricane season⁴

After the devastating impact of Hurricanes Harvey and Irma in 2017, the energy industry has made significant strides to help ensure a stable supply of oil and natural gas and improve infrastructure resilience. To reduce spikes to the supply chain, many fuel terminals are working non-stop to dispense supplies to service stations and companies and local, state, and federal governments are coordinating to bring gasoline and diesel supplies from neighboring states if necessary.

In the news

September 20th, 20185 - The US celebrated another new record for crude oil production of 10.8 million barrels per day (MBD) over the past two months. But US petroleum exports decreased by 1.3 million barrels per day since June. The overall United States' petroleum trade balance went from net imports of 2.9 MBD in June to 4.54 MBD in August, which is more than a 56 percent increase in two months. US natural gas quietly achieved 12 percent annual growth in Q3, but it appears demand was limited by potential coal & nuclear power subsides, global LNG market conditions, escalating trade disputes, and improved competitiveness by renewables. According to Chief Economist Dean Foreman, the trade war appears to be limiting the United States' access to crude export markets. **August 8th, 20186** – A group of senators announced they have drafted legislation targeted at Russia with the intention to restrict US investment in Russian energy projects. According to the bill, sanctions will be applied to energy projects in Russia whose value exceeds \$250 million. While the draft does not directly define what an "energy project" entails, it is expected the restrictions will be broad and likely include limits on projects ranging from the production of solar panels to the geological exploration of hydrocarbons.

In this update

- Energy trends
- Economic outlook
- Industry analysis
- Select M&A transactions
- Appendix

This update will focus on news and trends in the following areas:

- Oilfield Services
- Renewable Energy
- Power & Utilities
- Energy and Resources Supply Chain

Who we are

Deloitte Corporate Finance LLC is a leading global middle market M&A adviser. The firm's professionals have extensive knowledge within various sectors of the Energy space.

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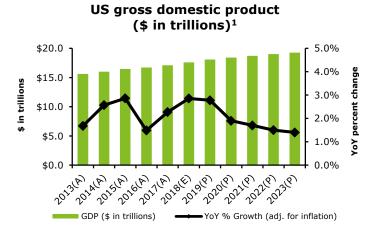
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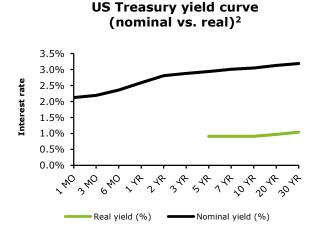
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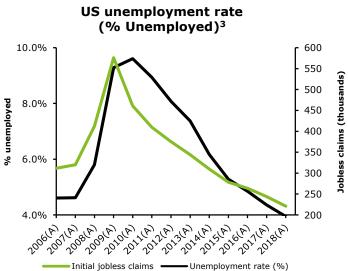
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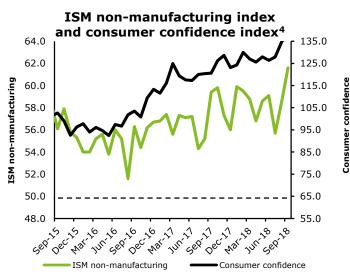


Macroeconomic outlook



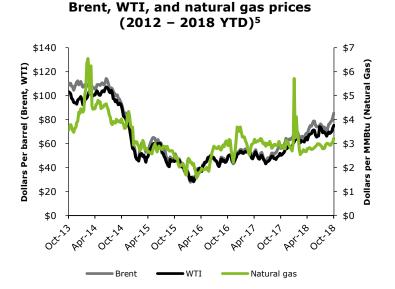




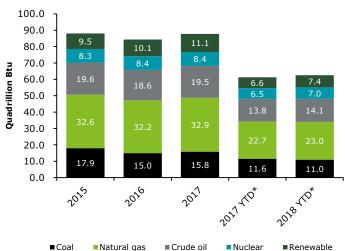


*An ISM non-manufacturing index value above 50 signals economic expansion.

Energy sector outlook



US energy production by source⁶



Energy sector breakdown & trading statistics1

							Last twelve months		NTM
Sector	Number of companies	% of 52 week high	Median revenue CAGR (3 Yr)	Median LTM EBITDA	Median EBITDA Margin	Median enterprise value	EV/ Revenue	EV/ EBITDA	EV/ EBITDA
(\$ in millions)									
Oil and gas, general (14)	14	77.8 %	1.0 %	\$4,553.5	19.6 %	\$30,309.3	1.5 x	8.5 x	5.6 x
Power & utilities (19)	19	97.6	2.2	3,014.4	31.5	35,755.2	3.8	12.1	10.8
Renewable energy (13)	13	73.6	6.7	107.1	11.1	2,218.8	1.9	11.7	10.4
Nuclear (3)	3	74.9	4.2	486.7	20.2	5,267.8	2.2	10.8	10.4
Energy index	49	86.1 %	3.0 %	\$2,443.7	27.7 %	\$21,643.6	2.9 x	10.7 x	9.7 x

Public comparables three-year stock market performance²



^{*}Energy index companies listed on pages 6 & 7 in the Appendix.



Select Energy M&A transactions ¹								
Close date*	Target/acquiror	Target business description	Enterprise value ("EV")	EV/ EBITDA				
Pending	American Midstream Partners, LP	Provides midstream infrastructure that links the producers of natural gas, crude oil, natural gas liquids (NGLs), condensate, and specialty chemicals to various intermediate and end-use markets and Mexico.	\$1,858.9	20.9				
	Dominion Energy, Inc.							
Pending	Basic Energy Services, Inc. Diamondback Energy, Inc.	Provides well site services to oil and natural gas drilling and producing companies.	509.9	7.8				
	Diamonuback Energy, Inc.							
Pending	Dominion Energy Midstream Partners, LP TLP Acquisition Holdings LLC	Owns liquefied natural gas (LNG) terminalling, storage, regasification, and transportation assets.	8,272.4	21.8				
Pending	Energen Corporation	Energen Corporation, through its subsidiary, Energen Resources Corporation, engages in the exploration, development, and production of oil, natural gas liquids, and natural gas.	9,250.6	11.9				
	United Energy Group Limited							
Pending	Kuwait Energy plc	Kuwait Energy plc, an independent oil and gas company, engages in the exploration, appraisal, development, and production of hydrocarbons.	1,178.3	7.6				
	Transocean Ltd.	Marquee Energy Ltd., a junior energy Company, focuses on the						
Pending	Marquee Energy Ltd. Centerbridge Partners, L.P.	acquisition, exploration, development, and production of oil and natural gas properties in Alberta, Canada.	42.4	12.7				
	Centerbridge raithers, c.r.	MEG Energy Corp., an oil sands company, focuses on sustainable in						
Pending	MEG Energy Corp.	situ development and production in the southern Athabasca oil sands region of Alberta.	4,987.8	16.3				
	Birch Hill Equity Partners Management Inc.	Provides midstream infrastructure that links the producers of						
Pending	Ocean Rig UDW Inc. ArcLight Capital Partners, LLC	natural gas, crude oil, natural gas liquids (NGLs)s to various intermediate and end-use markets.	2,606.5	7.4				
	Arctignic Capital Farthers, LLC							
7/17/2018	Seitel, Inc. Husky Energy Inc.	Provides onshore and offshore seismic data to the oil and gas industry in North America.	237.5	4.1				
2/4//2040								
9/14/2018	Tidewater Midstream and Infrastructure Ltd. Ensign Energy Services Inc.	Engages in the gathering, processing, and transportation of natural gas liquids (NGLs) primarily in North America.	540.6	11.				
Pending	Transmontaigne Partners L.P. Prairie Provident Resources Inc.	TransMontaigne Partners L.P. provides integrated terminaling, storage, transportation, and related services.	1,254.3	11.				
Pending	Trinidad Drilling Ltd. Key Energy Services	Designs, builds, and operates drilling rigs for complex wells primarily in Canada, the United States, and internationally.	714.0	8.				

^{*}Pending transactions sorted by announcement date.

Annual Energy M&A transaction volume² 2,500 2,287 2,016 2,000 deals 1,500 1,000 500 1,920 1,925 1,707 1,605 1,293 1,210 1145 1,025 500 0 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 YTD ■ Undisclosed ■<\$100M ■\$100-\$250M ■\$250-\$500M ■\$500-\$1B ■>\$1B



Appendix

Public comparables analysis¹

Market data as of 11/12/18							Last twelve	e months	NTM
Company (ticker)	% of 52 week high	LTM revenue	Revenue CAGR (3 Yr)	LTM EBITDA	EBITDA margin	Enterprise value ("EV")(1)	EV/ revenue	EV/ EBITDA	EV/ EBITDA
(\$ in millions)									
Oil and qas, qeneral (14) Andeavor	94.1 %	\$42,776.0	8.3 %	\$3,433.0	8.0 %	\$0.0	0.0 x	0.0 x	0.0 x
Chevron Corporation (NYSE:CVX)	87.7	153,071.0	3.9	30,173.0	19.7	251,767.8	1.6	8.3	4.7
ConocoPhillips (NYSE:COP)	81.2	35,835.0	0.2	18,778.0	52.4	83,440.9	2.3	4.4	4.6
Devon Energy Corporation (NYSE:DVN)	67.8	14,217.0	1.2	3,159.0	22.2	17,718.7	1.2	5.6	5.0
Diamond Offshore Drilling, Inc. (NYSE:DO)	62.9 88.1	1,171.8	(22.2)	332.8	28.4 19.4	3,390.8	2.9 0.0	10.2 0.0	12.8 0.0
Energy Transfer Operating, L.P. Exxon Mobil Corporation (NYSE:XOM)	89.4	35,941.0 278,412.0	(5.0) 2.1	6,986.0 39,725.0	14.3	378,818.8	1.4	9.5	5.9
Halliburton Company (NYSE:HAL)	59.0	23,999.0	(4.2)	4,457.0	18.6	38,346.7	1.6	8.6	8.9
Hess Corporation (NYSE:HES)	76.8	6,177.0	(6.4)	2,496.0	40.4	22,271.8	3.6	8.9	6.8
Marathon Petroleum Corporation (NYSE:MPC)	74.5	77,690.0	3.0	6,391.0	8.2	63,852.2	0.8	10.0	5.4
Phillips 66 (NYSE:PSX) Southwestern Energy Company (NYSE:SWN)	78.8 86.8	108,773.0 3,496.0	3.5 0.9	4,650.0 1,389.0	4.3 39.7	57,927.1 6,876.4	0.5 2.0	12.5 5.0	7.1 5.4
Transocean Ltd. (NYSE:RIG)	67.4	2,874.0	(28.2)	1,092.0	38.0	11,522.6	4.0	10.6	11.3
Valero Energy Corporation (NYSE:VLO)	67.7	108,953.0	5.6	6,266.0	5.8	43,052.8	0.4	6.9	5.9
Median	77.8 %	\$35,888.0	1.0 %	\$4,553.5	19.6 %	\$30,309.3	1.5 x	8.5 x	5.6 x
Mean	77.3 %	\$63,813.3	(2.7) %	\$9,237.7	22.8 %		1.6 x	7.2 x	6.0 x
Power & utilities (19)									
Ameren Corporation (NYSE:AEE)	99.2 %	\$6,046.0	0.6 %	\$2,468.0	40.8 %	\$25,622.4	4.2 x	10.4 x	10.6 x
ALLETE, Inc. (NYSE:ALE)	95.6	1,388.2	(0.2)	332.2	23.9	5,383.4	3.9	16.2	11.8
American Electric Power Company, Inc. (NYSE:AEP)	97.6	16,205.0	(0.9)	5,105.8	31.5	61,739.1	3.8	12.1	10.0
Avangrid, Inc. (NYSE:AGR)	90.1	6,346.0	13.6	1,907.2	30.1	21,643.6	3.4	11.3	11.2
Black Hills Corporation (NYSE:BKH) CenterPoint Energy, Inc. (NYSE:CNP)	98.7 93.1	1,708.4 10,191.0	7.8 8.6	592.4 2,218.0	34.7 21.8	7,213.5 21,736.5	4.2 2.1	12.2 9.8	11.9 8.7
Consolidated Edison, Inc. (NYSE:ED)	88.5	12,349.0	(0.9)	3,832.0	31.0	42,489.3	3.4	11.1	10.2
Dominion Energy, Inc. (NYSE:D)	86.1	13,215.0	3.1	6,267.0	47.4	87,956.8	6.7	14.0	13.1
DTE Energy Company (NYSE:DTE)	98.8	13,733.0	7.9	2,527.0	18.4	35,755.2	2.6	14.1	12.4
Duke Energy Corporation (NYSE:DUK)	93.6	23,810.0	0.7	10,238.0	43.0	117,811.4	4.9	11.5	10.8
Entergy Corporation (NYSE:ETR) Eversource Energy (NYSE:ES)	97.7 98.8	11,120.8 8,308.7	(2.1) 0.7	3,014.4 2,604.4	27.1 31.3	33,256.6 35,087.9	3.0 4.2	11.0 13.5	7.5 12.3
Exelon Corporation (NYSE:EXC)	99.0	35,521.0	5.8	10,035.0	28.3	81,175.7	2.3	8.1	8.5
PG&E Corporation (NYSE:PCG)	57.7	16,771.0	(0.4)	5,443.0	32.5	36,277.9	2.2	6.7	5.6
Sempra Energy (NYSE:SRE)	90.7	11,430.0	3.6	3,886.0	34.0	61,948.4	5.4	15.9	15.3
The Southern Company (NYSE:SO)	89.1	23,786.0	9.9	8,009.0	33.7	96,911.6	4.1	12.1	11.7
Vectren Corporation (NYSE:VVC) WEC Energy Group, Inc. (NYSE:WEC)	99.8 98.3	2,678.9 7,657.7	2.2 13.0	636.9 2,443.7	23.8 31.9	8,294.8 33,684.6	3.1 4.4	13.0 13.8	0.0 13.4
Xcel Energy Inc. (NasdaqGS:XEL)	97.9	11,452.0	0.4	3,743.0	32.7	42,532.7	3.7	11.4	9.0
Median	97.6 %	\$11,430.0	2.2 %	\$3,014.4	31.5 %	\$35,755.2	3.8 x	12.1 x	10.8 x
Mean	93.2 %	\$12,300.9	3.9 %	\$3,963.3	31.5 %		3.8 x	12.0 x	10.2 x
Renewable energy (13)									
Ballard Power Systems Inc. (TSX:BLDP)	58.3 %	\$108.4	27.6 %	(\$11.1)	NM %	\$518.3	4.8 x	NM x	NM x
Brookfield Renewable Partners L.P. (TSX:BEP.UN)	83.0	2,859.0	20.5	1,739.0	60.8	26,889.2	9.4	15.5	11.7
Canadian Solar Inc. (NasdaqGS:CSIQ)	74.8	4,096.5	6.7	401.6	9.8	2,745.9	0.7	6.8	7.8
Enphase Energy, Inc. (NasdaqGM:ENPH)	71.4	303.5	(8.5)	7.2	2.4	573.2	1.9	80.1	28.1
First Solar, Inc. (NasdaqGS:FSLR) JA Solar Holdings Co., Ltd.	52.3 88.3	1,892.0 2,823.2	(19.6) 20.3	107.1 253.7	5.7 9.0	2,218.8	1.2 0.0	20.7 0.0	3.5 0.0
Macquarie Infrastructure Corporation (NYSE:MIC)	56.0	1,924.1	5.4	638.7	33.2	6,765.6	3.5	10.6	10.4
Ormat Technologies, Inc. (NYSE:ORA)	73.6	695.2	6.7	305.7	44.0	3,926.9	5.6	12.8	9.7
ReneSola Ltd (NYSE:SOL)	43.1	173.7	(49.8)	(11.6)	NM	234.6	1.4	NM	13.7
Renewable Energy Group, Inc. (NasdaqGS:REGI) SunPower Corporation (NasdaqGS:SPWR)	77.2	2,444.4	22.3	300.6	12.3	932.6 2,770.0	0.4	3.1	6.8
Sunrun Inc. (NasdagGS:RUN)	63.4 75.6	1,998.1 669.3	(5.5) 36.2	(92.0) (8.4)	NM NM	2,770.0 3,533.8	1.4 5.3	NM NM	19.4 105.5
Vivint Solar, Inc. (NYSE:VSLR)	91.7	293.6	74.8	(32.4)	NM	1,812.7	6.2	NM	NM
Median	73.6 %	\$1,892.0	6.7 %	\$107.1	11.1 %	\$2,218.8	1.9 x	11.7 x	10.4 x
Mean	69.9 %	\$1,560.1	10.5 %	\$276.8	22.1 %	\$4,070.9	3.2 x	18.7 x	19.7 x
Nuclear (3)									
BWX Technologies, Inc. (NYSE:BWXT)	61.3 %	\$1,752.0	6.6 %	\$354.1	20.2 %	\$5,069.1	2.9 x	14.3 x	13.0 ×
Curtiss-Wright Corporation (NYSE:CW)	74.9	2,375.1	2.7	486.7	20.5	5,267.8	2.2	10.8	10.4
Huntington Ingalls Industries, Inc. (NYSE:HII)	77.4	7,973.0	4.2	1,216.0	15.3	10,411.8	1.3	8.6	8.5
Median	74.9 %	\$2,375.1	4.2 %	\$486.7	20.2 %	\$5,267.8	2.2 x	10.8 x	10.4 x
Mean	71.2 %	\$4,033.4	4.5 %	\$685.6	18.7 %	\$6,916.2	2.1 x	11.2 x	10.6 x



Recent transactions¹

(\$ in millions)

		Close date	LTM revenue			Enterprise value ("EV")	Last twelve months		
Target/acquiror	Sub-sector			LTM EBITDA	EBITDA margin		EV/ Revenue	EV/ EBITDA	
Dominion Energy Midstream Partners, LP Dominion Energy, Inc.	Oil and Gas Storage and Transportation	Pending	\$592.0	\$378.9	64.0 %	\$8,272.4	14.0 x	21.8 x	
Energen Corporation Diamondback Energy, Inc.	Oil and Gas Exploration and Production	Pending	1,256.5	775.1	61.7	9,250.6	7.4	11.9	
Transmontalgne Partners L.P. TLP Acquisition Holdings LLC	Oil and Gas Storage and Transportation	Pending	204.8	109.1	53.3	1,254.3	6.1	11.5	
Kuwait Energy pic United Energy Group Limited	Oil and Gas Exploration and Production	Pending	216.1	154.2	71.3	1,178.3	5.5	7.6	
Ocean Rig UDW Inc. Transocean Ltd.	Oil and Gas Drilling	Pending	711.7	352.2	49.5	2,606.5	3.7	7.4	
Seitel, Inc. Centerbridge Partners, L.P.; Centerbridge Capital Partners II, L.P.;	Oil and Gas Equipment and Services	Jul-18	77.8	57.6	74.1	237.5	3.1	4.1	
Tidewater Midstream and Infrastructure Ltd. Birch Hill Equity Partners Management Inc.; Birch Hill Equity	Oil and Gas Storage and Transportation	Sep-18	269.6	60.8	22.6	711.3	2.6	11.7	
American Midstream Partners, LP ArcLight Capital Partners, LLC; ArcLight Energy Partners Fund V, L	Oil and Gas Storage and Transportation.P.	Pending	752.4	88.9	11.8	1,858.9	2.5	20.9	
MEG Energy Corp. Husky Energy Inc.	Oil and Gas Exploration and Production	Pending	2,700.8	396.0	14.7	6,447.5	2.4	16.3	
Trinidad Drilling Ltd. Ensign Energy Services Inc.	Oil and Gas Drilling	Pending	550.5	110.0	20.0	936.9	1.7	8.5	
Marquee Energy Ltd. Prairie Provident Resources Inc.	Oil and Gas Exploration and Production	Pending	33.8	4.4	12.9	55.2	1.6	12.7	
Basic Energy Services, Inc. Key Energy Services, Inc.	Oil and Gas Equipment and Services	Pending	956.8	65.8	6.9	509.9	0.5	7.8	
Median			\$571.3	\$109.6	36.0 %	\$1,216.3	2.8 x	11.6 x	
Mean			\$693.6	\$212.8	38.6 %	\$2,776.6	4.2 x	11.9 x	



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DCF provides deal execution and lead financial advisory services to large corporate, middle market, private equity and venture capital firms. DCF and its affiliates maintain a presence in key US financial centers.

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