

Energy in a Less-Energetic Global Economy



Avery Shenfeld, Chief Economist & Managing Director

August 2017



Growth Outlook: Not “Great Again”, But Good Enough

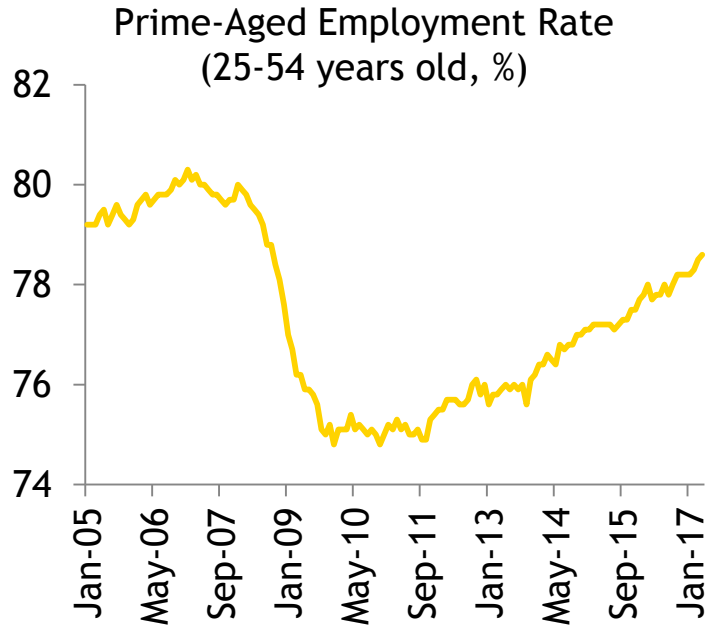
1

	5 yrs before recession, avg	2014A	2015A	2016A	2017F	2018F	2019F
World*	4.8	3.4	3.2	3.0	3.4	3.1	3.0
US	2.9	2.6	2.9	1.5	2.1	2.1	1.9
Canada	2.6	2.6	0.9	1.5	2.9	2.1	1.6
Euroland	2.2	1.3	1.9	1.7	2.0	1.7	1.4
UK	3.3	3.1	2.2	1.8	1.5	1.3	1.4
Japan	1.8	0.2	1.1	1.0	1.3	1.1	0.8
Brazil	4.0	0.5	-3.8	-3.6	0.2	1.6	2.5
Russia	7.5	0.7	-2.8	-0.2	1.2	1.5	2.0
India	8.9	6.4	7.5	8.0	7.5	7.2	7.2
China	11.6	7.3	6.9	6.7	6.7	6.5	6.2

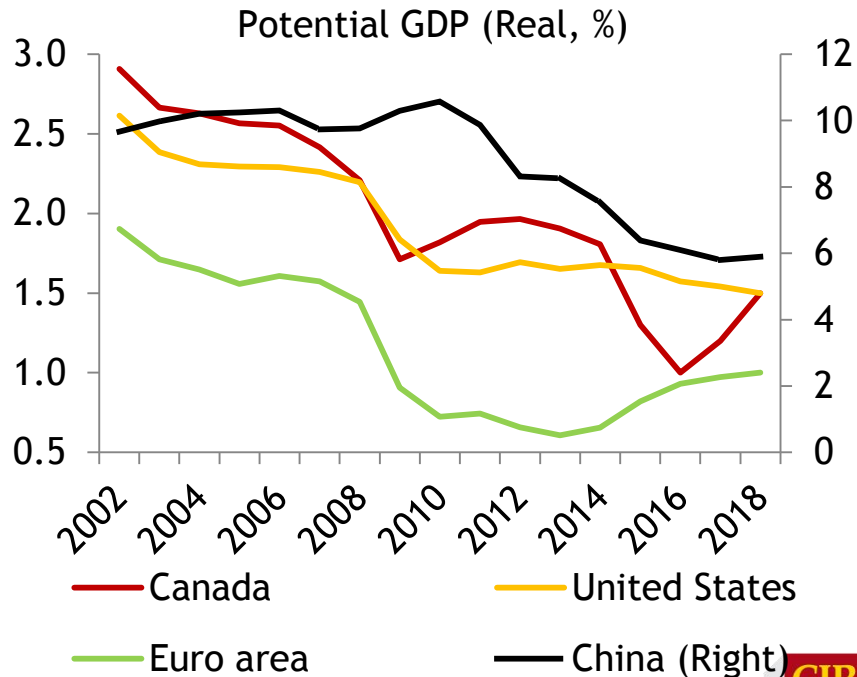
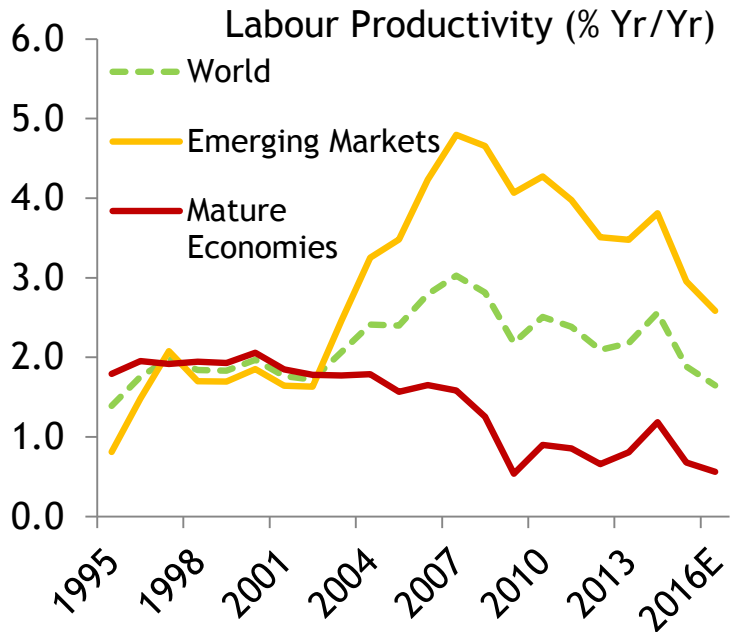
* at Purchasing Power Parity



US Prime-Age Employment Rates (L), Job Vacancies (R) Both Near Previous Cycle Peaks



Weaker Productivity (L), Slowing/Aging Population Mean Softer Speed Limits (R), Even for Emerging Markets

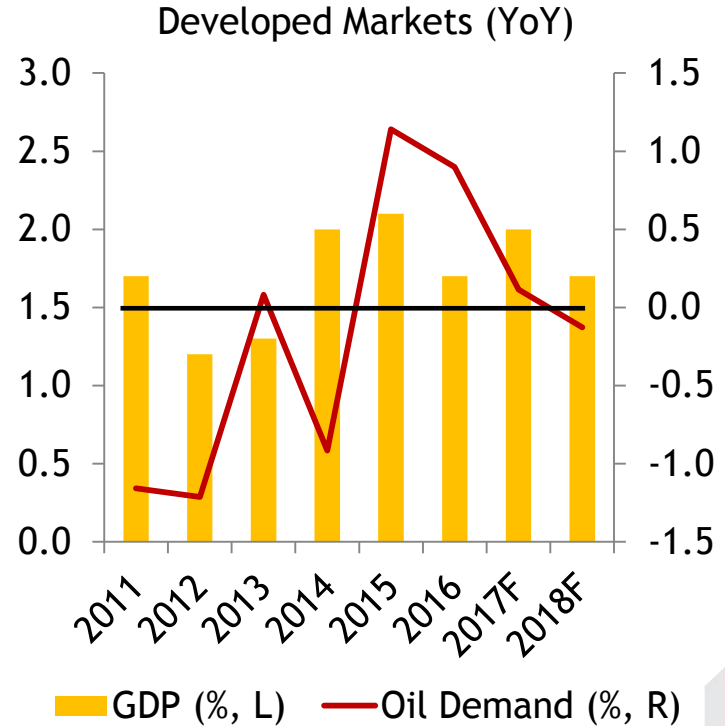
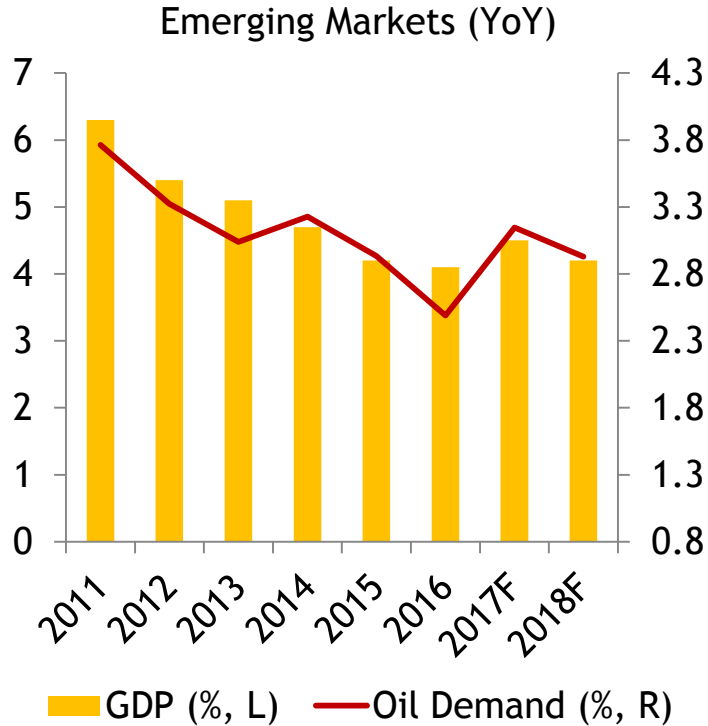


Source: CIBC, IMF, UN



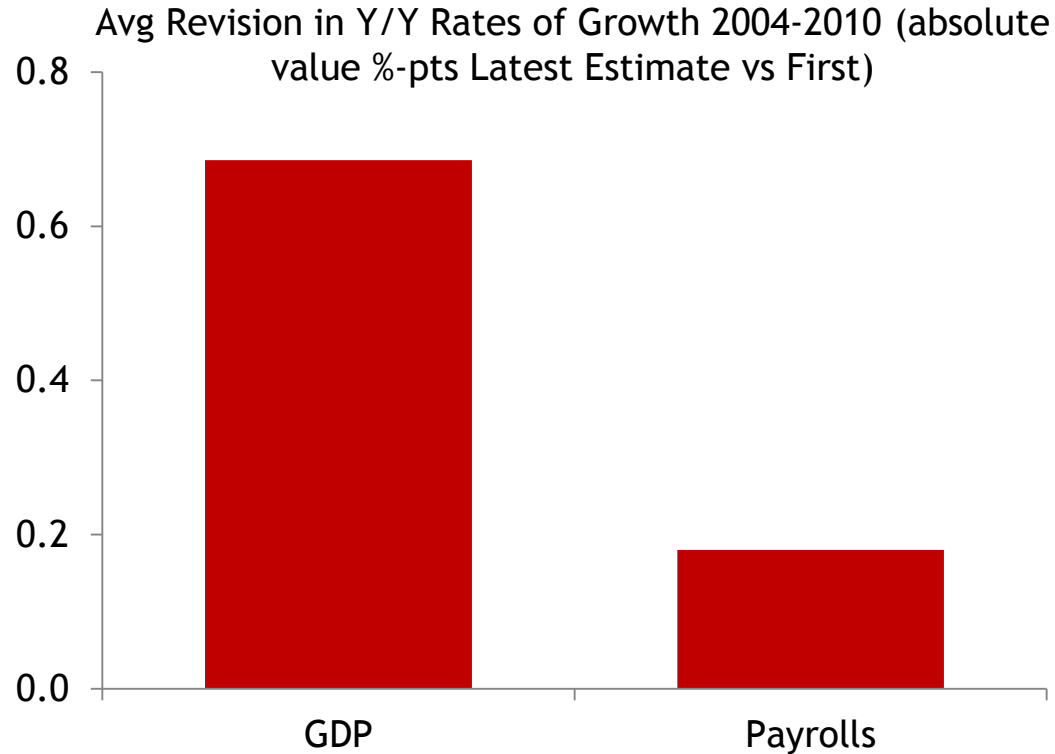
Emerging Markets Drive All of Total Oil Demand Growth

4



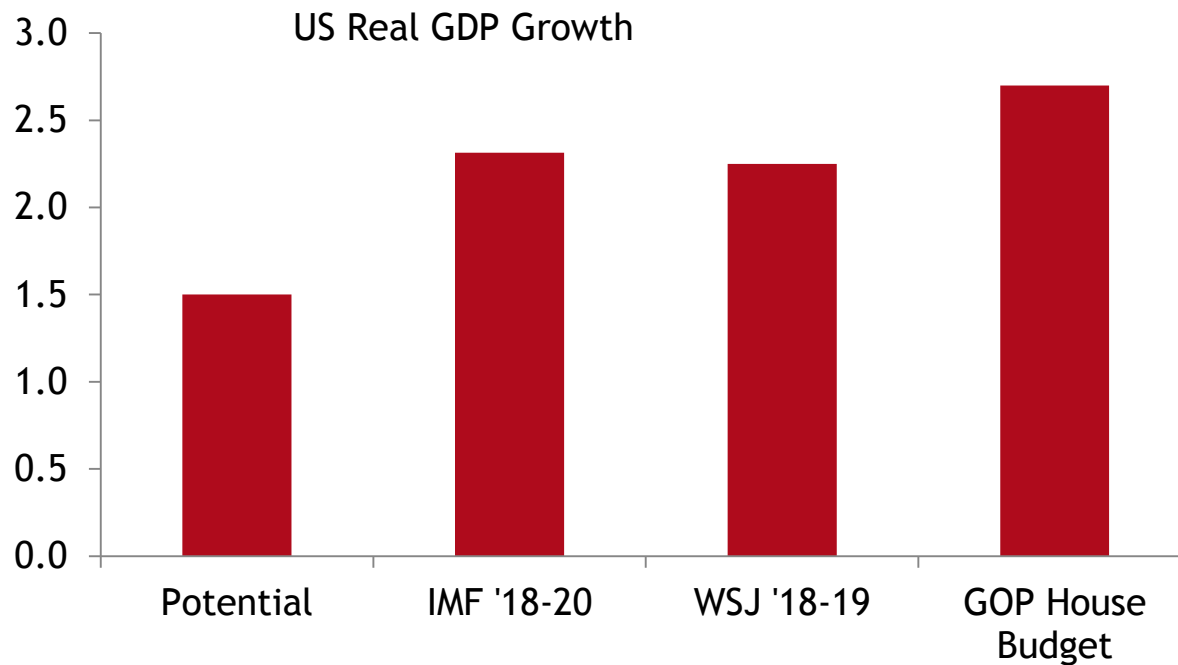
Source: IMF, BP, CIBC



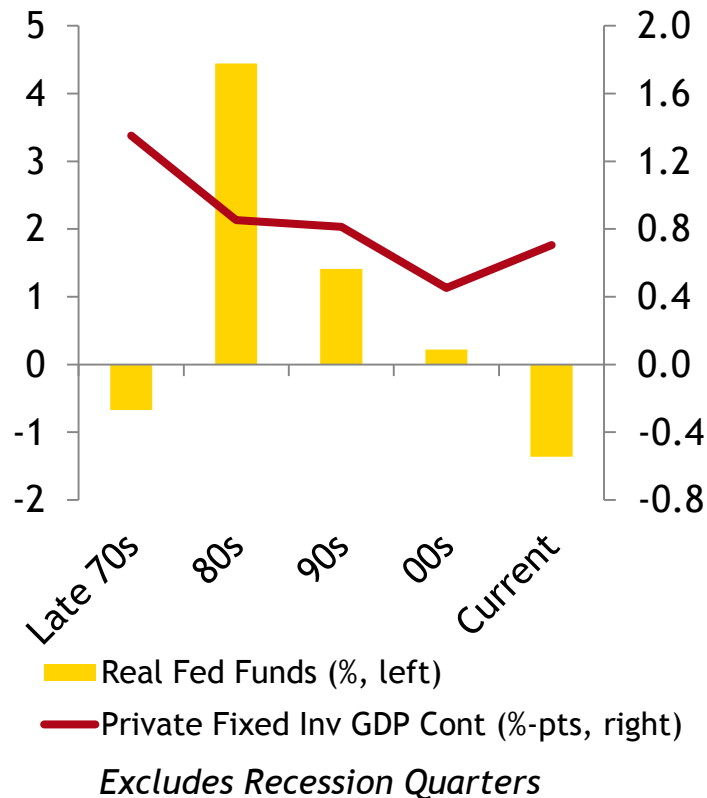
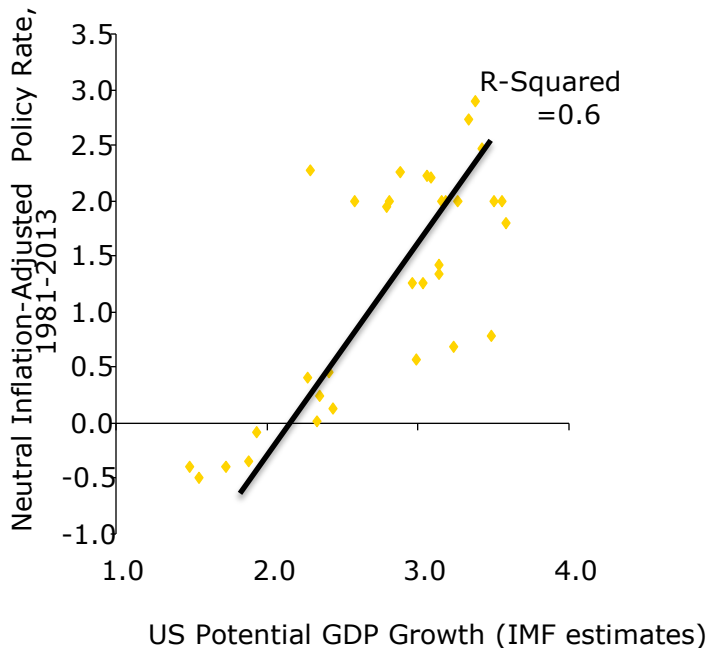


Source: BEA, BLS, CIBC

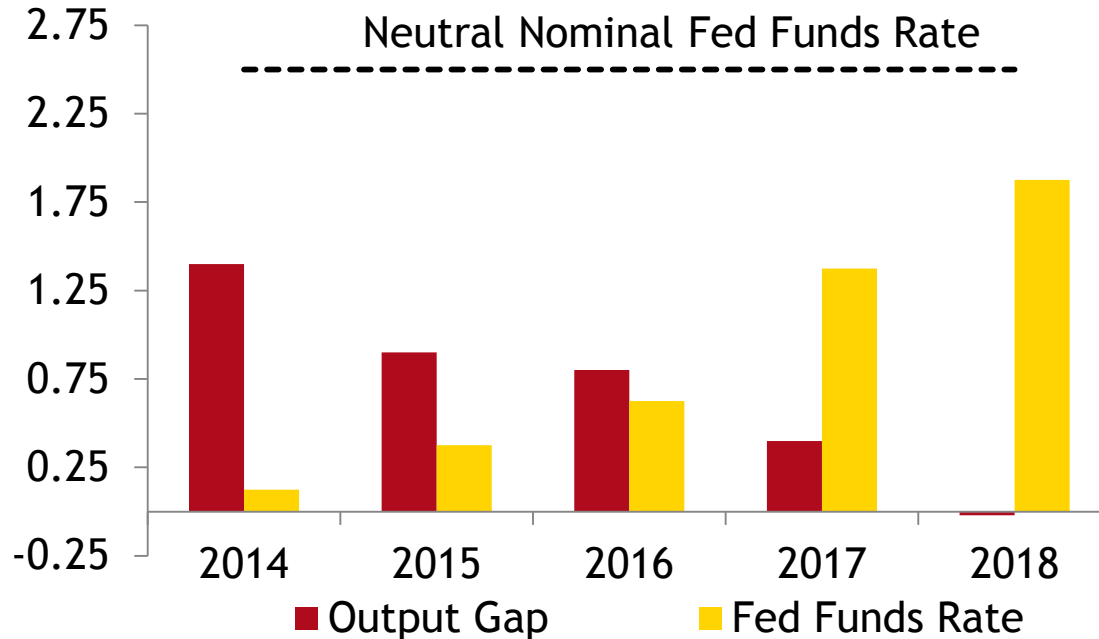




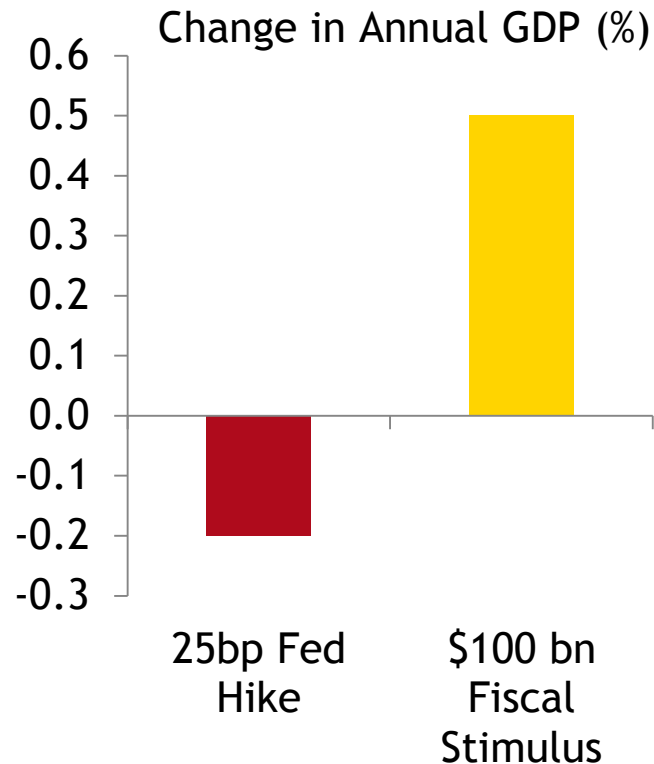
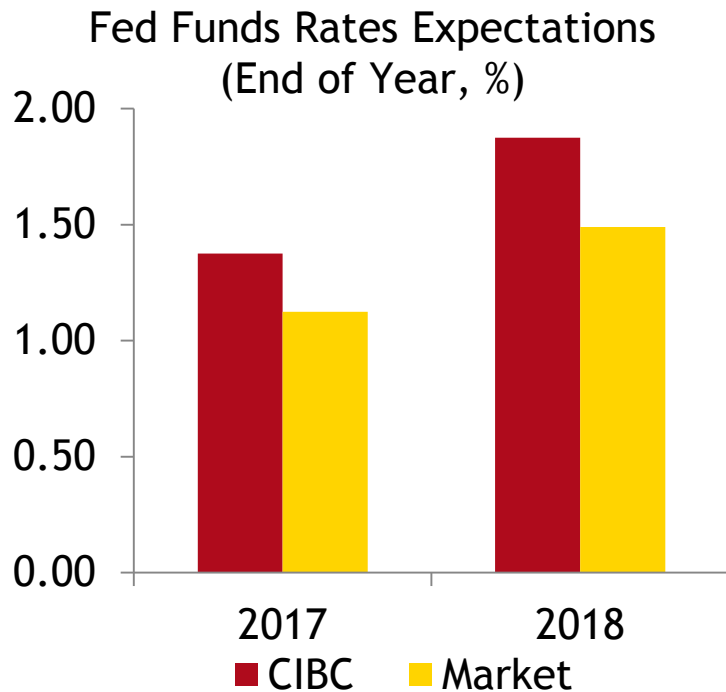
Slower Growth Implies Lower Real Neutral Interest Rate (L) As Does Weaker Capital Spending at Any Given Interest Rate (R)



Estimate of the Output Gap and Fed Funds Rate(%)

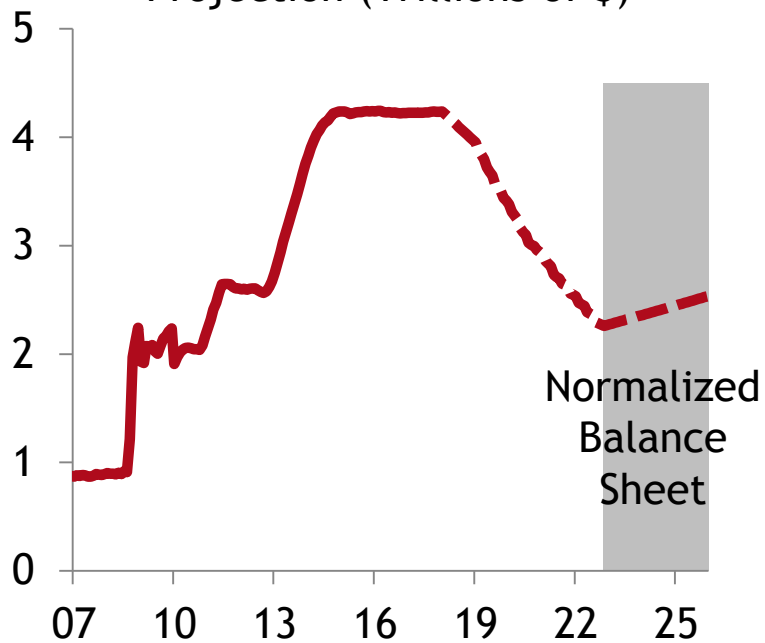


Markets are Slightly Underpriced for Fed Hikes (L), Fiscal Stimulus Would Add to Hikes in 2018 (R) but Looking Less Likely

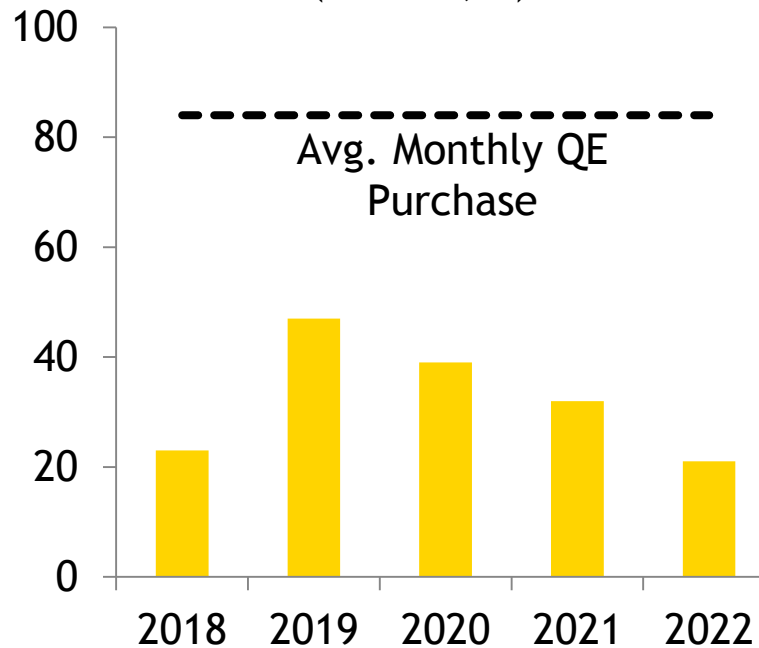


Don't Get Too Wound Up Over Fed Unwinding: A Higher "Normal" (L), Monthly Roll-off Pales vs QE Purchases (R)

Balance Sheet Normalization Projection (Trillions of \$)



Estimated Avg. Monthly Roll-off (Billions, \$)



Commodities: A Shallow Recovery, Not Just in Oil/Gas

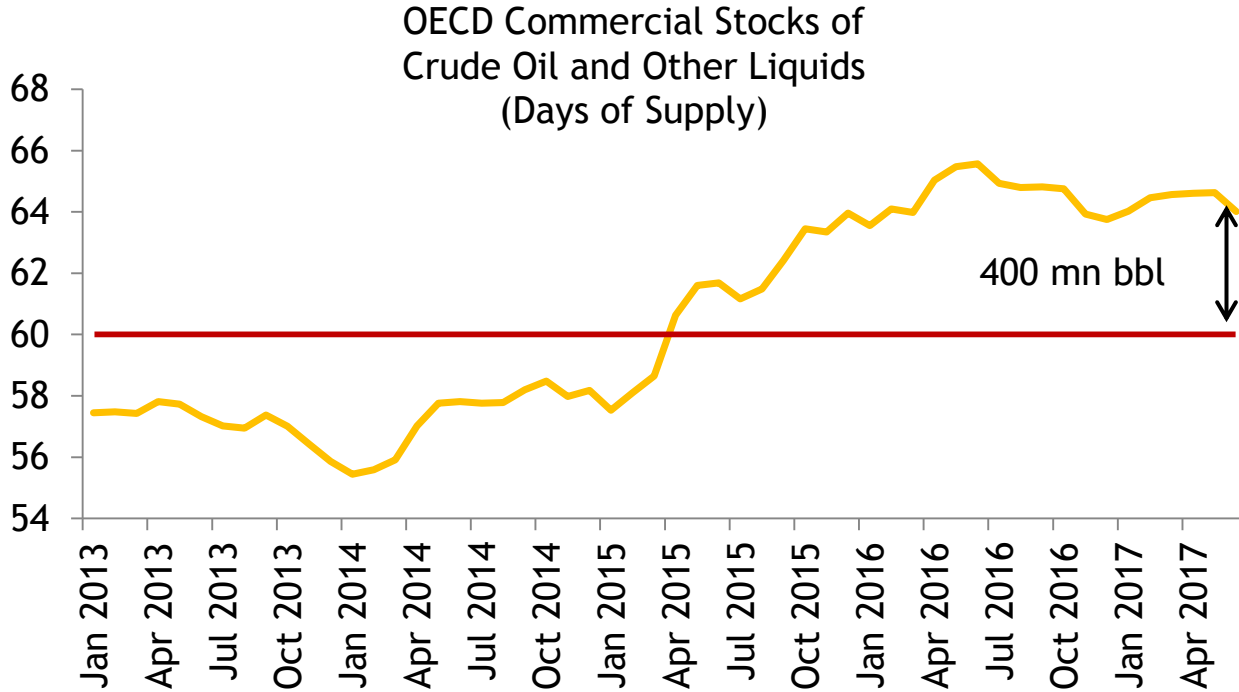
11

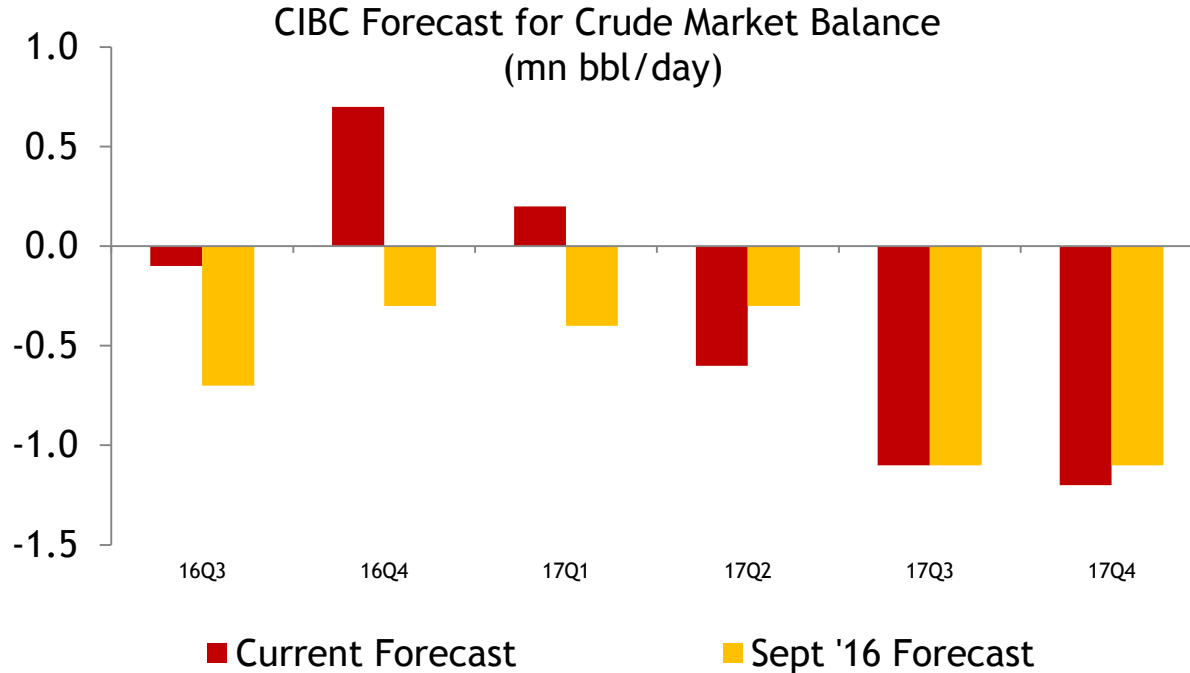
		3-Aug	2014	2015	2016	2017 (f)	2018 (f)	2019 (f)
Oil (WTI)	\$/bbl	49	93	49	43	49	53	55
Natural Gas (Henry)	\$/Mn Btu	2.78	4.35	2.61	2.49	2.95	2.80	2.90
Gold*	\$/troy oz	1270	1184	1061	1148	1200	1250	1225
Silver*	\$/troy oz	16.67	15.7	13.8	15.9	16.9	18.1	18.0
Iron Ore (62% Fe)	\$/mt	73	97	56	58	72	69	67
Copper	\$/lb	2.87	3.12	2.50	2.21	2.61	2.69	2.50
Aluminum	\$/lb	0.86	0.85	0.76	0.73	0.85	0.86	0.79
Nickel	\$/lb	4.68	7.68	6.38	4.37	4.55	4.75	4.58
Zinc	\$/lb	1.27	0.98	0.95	0.95	1.27	1.16	1.13
Lumber**	\$/'000 bd ft	384	338	268	300	365	370	370
Potash	\$/tonne	218	297	304	246	220	230	230

* end of period, **1st CME Futures



Oil Has Been Vulnerable to Dips on Inventory Overhang



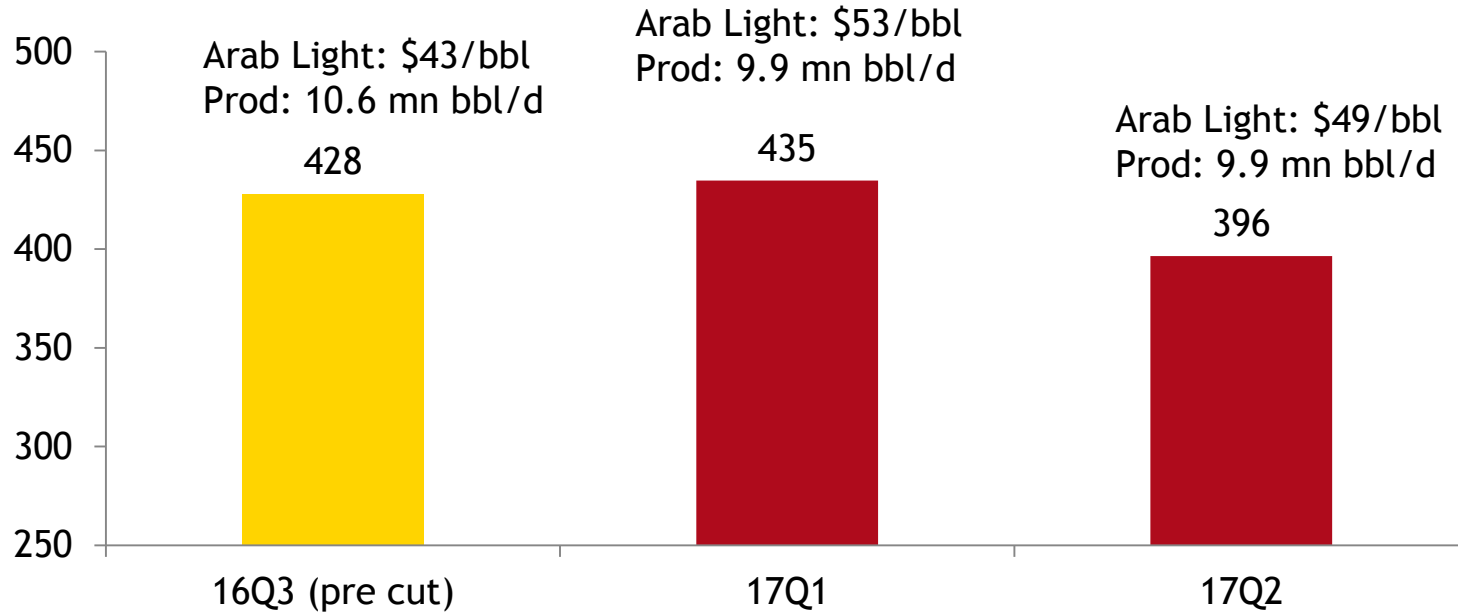


Source: CIBC, EIA, Bloomberg



OPEC Discipline Is a Near Term Risk: Production Cuts Helped Saudi in Q1, But Not in Q2

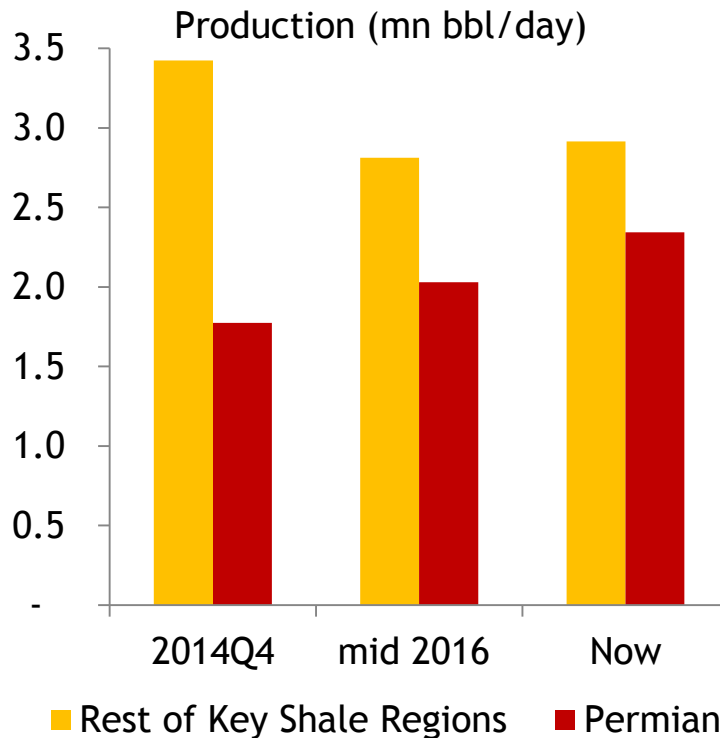
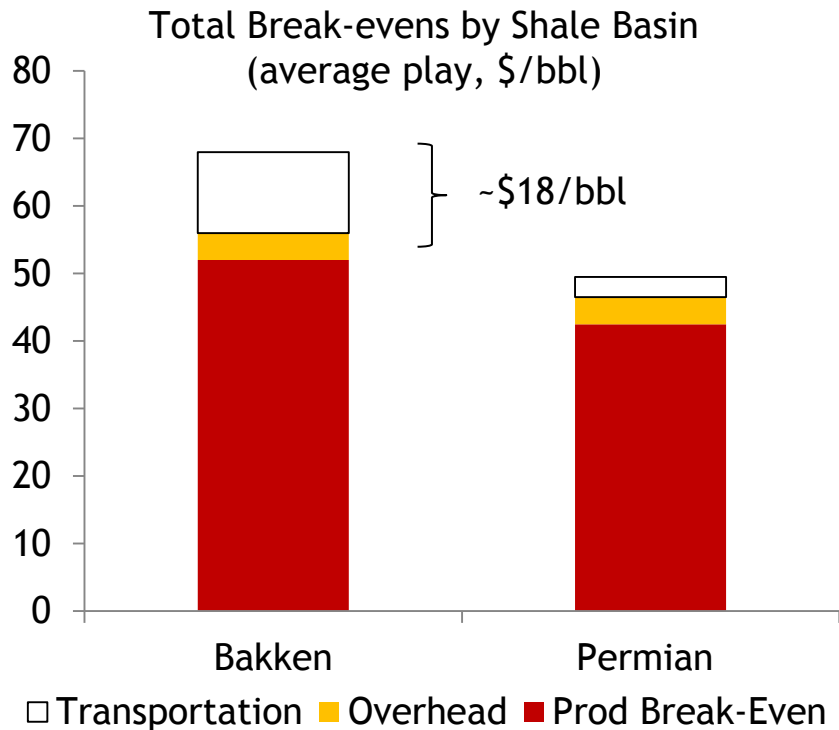
Implied Saudi Oil Revenues (\$ mn/day)



Source: OPEC, Bloomberg, CIBC

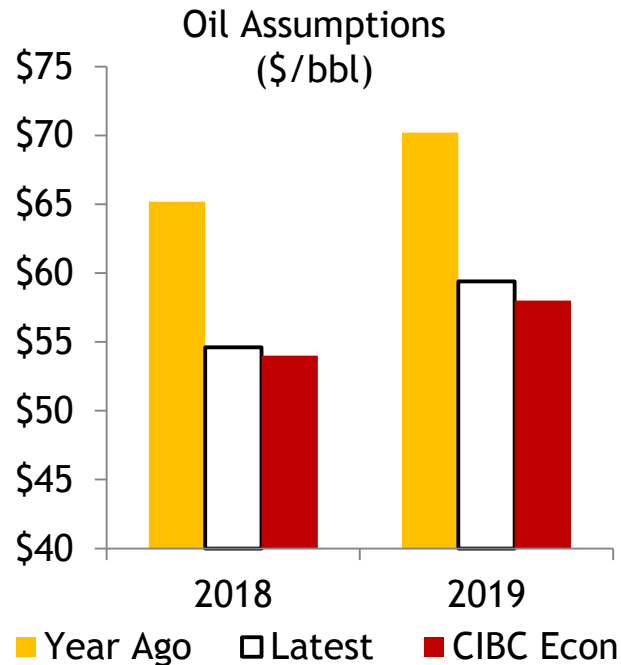
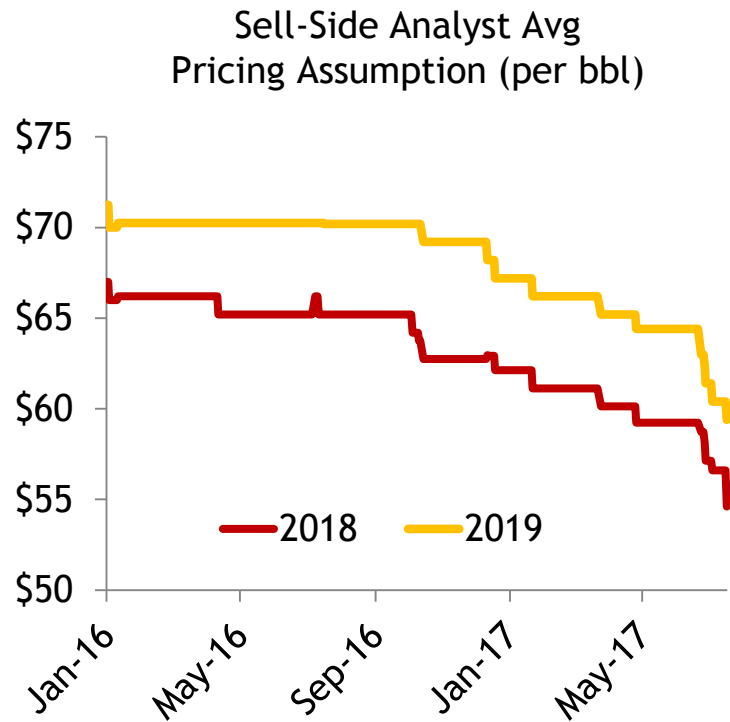


\$50/bbl Is Enough for the Permian, Not Enough For Broader Expansion



Source: Bloomberg, CIBC

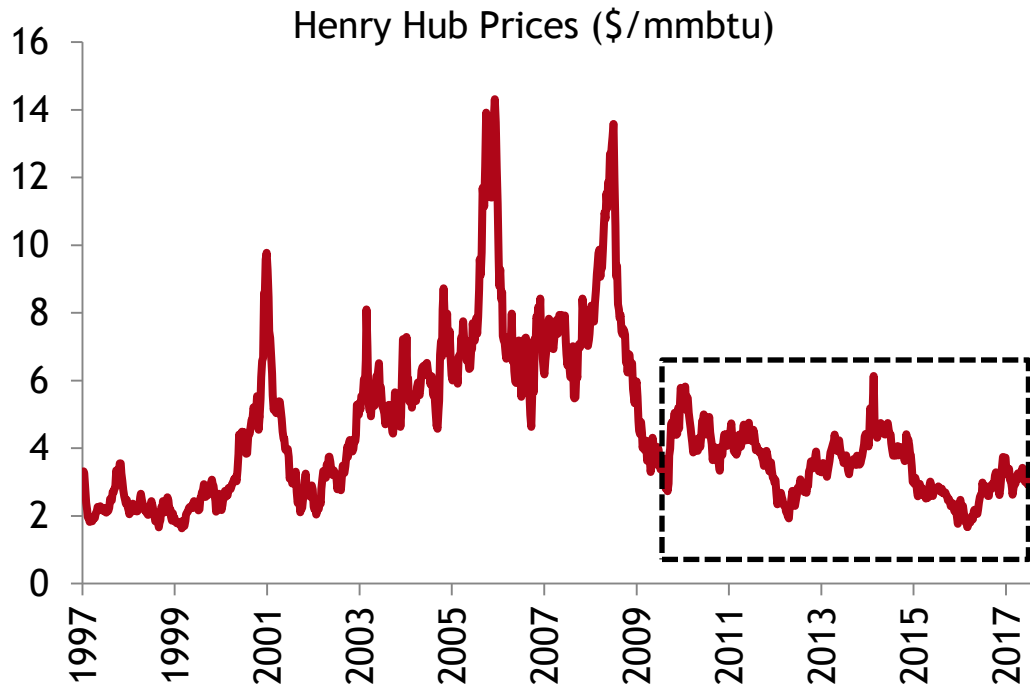




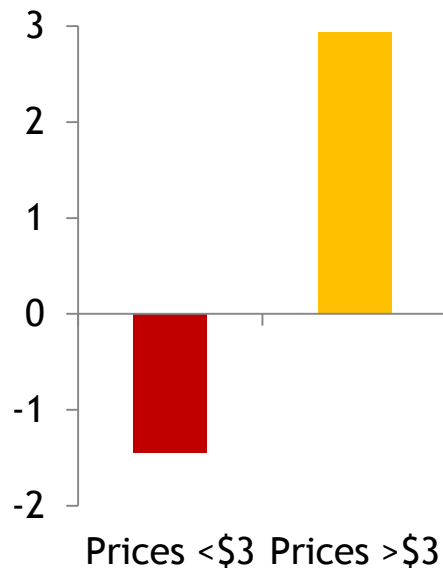
Source: CIBC



Nat Gas Stuck in a Tight Range (L), With \$3 Being the Swing Point for Production (R)



Average Weekly Chg in Gas Rigs (last two years)



Source: Bloomberg, Baker Hughes, CIBC



“We will modernize NAFTA so that it is a win-win for all our trading partners (Pence)”

“More than our entire deficit (with Canada) comes from hydrocarbons and electric energy...I don't call that blameful exports” (Ross)



“We can’t let Canada...take advantage and do what they did to our workers and farmers... I want to just mention included in there is lumber, timber and energy”

“We lose with Canada – big-league. Tremendous, tremendous trade deficits with Canada.”



- ❑ US decelerates to 2% growth in 2018, slower in '19. Similar trend for Canada
- ❑ Federal Reserve outpaces market expectations, helping stabilize US\$, but only 25 bps more this year, 50 bps in 2018. Monetary tightening spreads to Europe in 2018/19.
- ❑ Short rates reach 2½% in US, (2% in Canada) likely by end of 2019. Long yields also climb as inflation picks up to 2%+
- ❑ Shallow further recovery in oil matched to shallow global growth
- ❑ WTI only slightly higher in 2019 to broaden non-OPEC production growth. OPEC discipline a risk below \$50 or above \$60. Flat natural gas prices.
- ❑ Trade barriers unlikely to hurt Canadian producers. SAGD costs coming down, might make greenfield projects viable early next decade.
- ❑ Equity market prices have adapted to a range-bound crude market.