

NYSE Data Project Presentation--- What difference did Oil and Gas companies have in their Operating Profit?

Ticker_Sym	Years	Period_Ending	Total_Revenue	COG	SGA	RandD	Other_Operating	GICS_Sect	GICS_Sub_Industry	Gross Profit	Operating Profit
CHK	Year 1	12/31/2012	\$12,316,000,000	\$7,081,000,000	\$723,000,000	0	\$2,811,000,000	Energy	Integrated Oil & Gas	\$5,235,000,000	\$1,701,000,000
CHK	Year 2	12/31/2013	\$19,080,000,000	\$12,930,000,000	\$686,000,000	0	\$2,903,000,000	Energy	Integrated Oil & Gas	\$6,150,000,000	\$2,561,000,000
CHK	Year 3	12/31/2014	\$23,125,000,000	\$16,049,000,000	\$554,000,000	0	\$2,915,000,000	Energy	Integrated Oil & Gas	\$7,076,000,000	\$3,607,000,000
CHK	Year 4	12/31/2015	\$12,764,000,000	\$10,295,000,000	\$334,000,000	0	\$2,229,000,000	Energy	Integrated Oil & Gas	\$2,469,000,000	(\$94,000,000)
CVX	Year 1	12/31/2012	\$230,590,000,000	\$163,336,000,000	\$17,100,000,000	0	\$13,413,000,000	Energy	Integrated Oil & Gas	\$67,254,000,000	\$36,741,000,000
CVX	Year 2	12/31/2013	\$220,156,000,000	\$159,323,000,000	\$17,573,000,000	0	\$14,186,000,000	Energy	Integrated Oil & Gas	\$60,833,000,000	\$29,074,000,000
CVX	Year 3	12/31/2014	\$200,494,000,000	\$144,956,000,000	\$17,034,000,000	0	\$16,793,000,000	Energy	Integrated Oil & Gas	\$55,538,000,000	\$21,711,000,000
CVX	Year 4	12/31/2015	\$129,925,000,000	\$92,785,000,000	\$16,473,000,000	0	\$21,037,000,000	Energy	Integrated Oil & Gas	\$37,140,000,000	(\$370,000,000)
HES	Year 1	12/31/2012	\$12,245,000,000	\$3,535,000,000	\$1,126,000,000	0	\$2,866,000,000	Energy	Integrated Oil & Gas	\$8,710,000,000	\$4,718,000,000
HES	Year 2	12/31/2013	\$11,905,000,000	\$3,969,000,000	\$1,045,000,000	0	\$2,687,000,000	Energy	Integrated Oil & Gas	\$7,936,000,000	\$4,204,000,000
HES	Year 3	12/31/2014	\$10,737,000,000	\$3,753,000,000	\$863,000,000	0	\$3,224,000,000	Energy	Integrated Oil & Gas	\$6,984,000,000	\$2,897,000,000
HES	Year 4	12/31/2015	\$6,636,000,000	\$3,323,000,000	\$703,000,000	0	\$3,955,000,000	Energy	Integrated Oil & Gas	\$3,313,000,000	(\$1,345,000,000)
MUR	Year 1	12/31/2012	\$4,608,563,000	\$1,079,136,000	\$285,144,000	0	\$1,291,456,000	Energy	Integrated Oil & Gas	\$3,529,427,000	\$1,952,827,000
MUR	Year 2	12/31/2013	\$5,312,686,000	\$1,252,812,000	\$466,498,000	0	\$1,602,390,000	Energy	Integrated Oil & Gas	\$4,059,874,000	\$1,990,986,000
MUR	Year 3	12/31/2014	\$5,288,933,000	\$1,089,888,000	\$471,219,000	0	\$1,957,025,000	Energy	Integrated Oil & Gas	\$4,199,045,000	\$1,770,801,000
MUR	Year 4	12/31/2015	\$2,787,116,000	\$832,306,000	\$372,457,000	0	\$1,668,489,000	Energy	Integrated Oil & Gas	\$1,954,810,000	(\$86,136,000)
XOM	Year 1	12/31/2012	\$451,509,000,000	\$302,056,000,000	\$81,844,000,000	0	\$15,888,000,000	Energy	Integrated Oil & Gas	\$149,453,000,000	\$51,721,000,000
XOM	Year 2	12/31/2013	\$420,836,000,000	\$284,681,000,000	\$76,696,000,000	0	\$17,182,000,000	Energy	Integrated Oil & Gas	\$136,155,000,000	\$42,277,000,000
XOM	Year 3	12/31/2014	\$394,105,000,000	\$266,831,000,000	\$74,226,000,000	0	\$17,297,000,000	Energy	Integrated Oil & Gas	\$127,274,000,000	\$35,751,000,000
XOM	Year 4	12/31/2015	\$259,488,000,000	\$165,590,000,000	\$61,444,000,000	0	\$18,048,000,000	Energy	Integrated Oil & Gas	\$93,898,000,000	\$14,406,000,000

Screenshot 1 Five Oil & Gas Companies Financial Metrics (2012 to 2015) Calculation Summary

One GICS Sub Industry is included: **Integrated Oil & Gas**. There are 5 companies under this sub industry: CHK, CVX, HES, MUR, XOM.

Operating Profit is calculated and analyzed.

Operating Profit = Total Revenue – Cost of Goods – Total Operating Expenses (SGA + R&D + Other operating expenses)

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Table 1 Five Oil & Gas Companies Operating Profit (2012 to 2015) Statistics Summary

	CHK	CVX	HES	MUR	XOM
min	(\$94,000,000)	(\$370,000,000)	(\$1,345,000,000)	(\$86,136,000)	\$14,406,000,000
1/4 quartile	\$1,252,250,000	\$16,190,750,000	\$1,836,500,000	\$1,306,566,750	\$30,414,750,000
median	\$2,131,000,000	\$25,392,500,000	\$3,550,500,000	\$1,861,814,000	\$39,014,000,000
3/4 quartile	\$2,822,500,000	\$30,990,750,000	\$4,332,500,000	\$1,962,366,750	\$44,638,000,000
max	\$3,607,000,000	\$36,741,000,000	\$4,718,000,000	\$1,990,986,000	\$51,721,000,000
Range	\$3,701,000,000	\$37,111,000,000	\$6,063,000,000	\$2,077,122,000	\$37,315,000,000
Std	\$1,356,350,872	\$13,853,347,014	\$2,382,677,328	\$866,136,968	\$13,719,579,082

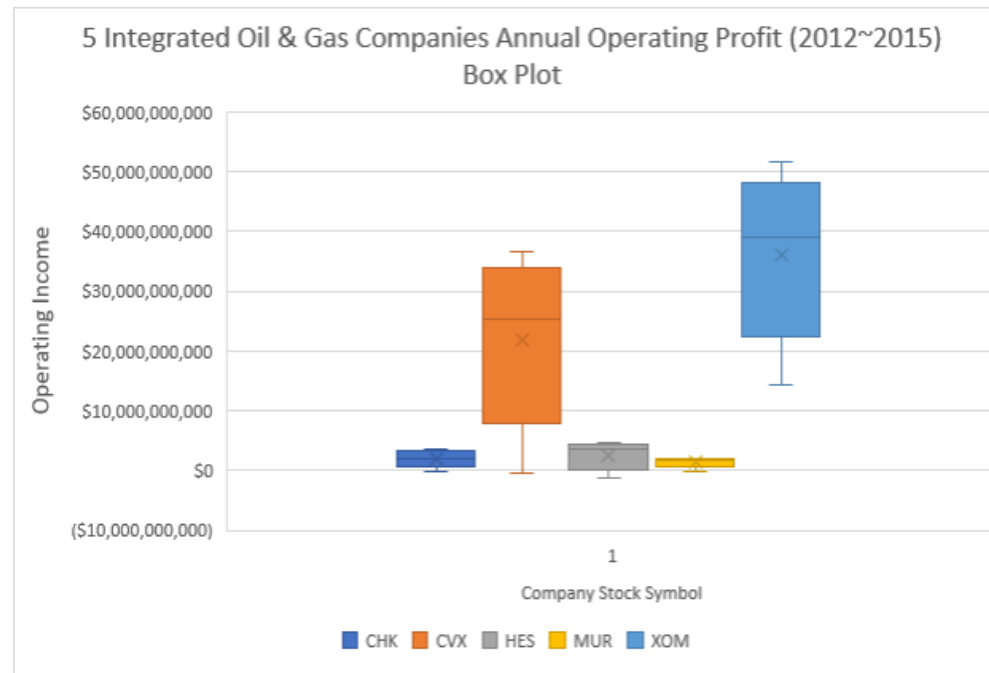


Figure 1 Five Oil & Gas Companies Operating Profit (2012 to 2015) Box Plot

According to Figure 1:

Insight 1: XOM has the highest median (\$39,014,000,000) operating income compared to the other 4 companies.

Insight 2: CVX and XOM has a wider spread range (\$37,111,000,000 & \$37,315,000,000 respectively) of operating income compared to the other 3 companies.

Insight 3: the minimum operating income of XOM (\$14,406,000,000) is higher than the maximum operating income of CHK, HES and MUR.

According to Table 1:

Insight 4: MUR has the smallest standard deviation (\$866,136,968) compared to other 4 companies.

Insight 5: HES operating income range (\$6,063,000,000) is almost three times of MUR operating income range (\$2,077,122,000).