

ANNUAL OPERATING SUMMARY						ANNUAL OPERATING SUMMARY (continued)						
(unaudited)						(unaudited)						
Oil Sands	2013	2012	2011	2010	2000	Exploration and Production Total Production (mboe/d)	2013 169.9	2012 189.9	2011	2010 296.9	149.3	
Total Production (mbbls/d)	392.5	359.2	339.3	318.2	306.7	Total Average Sales Price ⁽¹⁾ (dollars per barrel)	91.44	84.05	79.95	61.06	76.77	
Oil Sands Operations					-		31.44	04.03	75.55	01.00	76.77	
Production (mbbls/d)						North America Onshore						
Upgraded product (sweet SCO, sour SCO and diesel)	282.6	276.7	279.7	251.4	277.9	Production Natural gas (mmcf/d)	192	290	357	522	397	
Non-upgraded bitumen	77.9	48.1	25.0	31.6	12.7	Natural gas liquids and crude oil (mbbls/d)	5.3	5.6	5.1	8.8	8.1	
Oil Sands Operations production	360.5	324.8	304.7	283.0	290.6	Total production (mmcfe/d)	224	323	388	575	446	
Bitumen production (mbbls/d)		52.110		20010	20010	Average sales price ⁽¹⁾						
Mining	269.8	266.2	287.1	266.2	289.6	Natural gas (dollars per mcf)	3.42	2.17	3.55	4.04	4.10	
In Situ – Firebag	143.4	104.0	59.5	53.6	49.1	Natural gas* (dollars per mcf)	3.42	2.17	3.55	4.04	4.08	
In Situ – MacKay River	28.5	27.0	30.0	31.5	12.4	Natural gas liquids and crude oil (dollars per barrel)	81.34	76.93	85.30	67.06	56.84	
Total bitumen production	441.7	397.2	376.6	351.3		East Coast Canada						
Sales (mbbls/d)						Production (mbbls/d)						
Light sweet crude oil	91.5	93.8	85.5	82.3	99.6	Terra Nova	14.2	8.8	16.2	23.2	8.7	
Diesel	23.5	24.5	24.3	20.4	29.1	Hibernia	27.1	26.1	30.9	30.9	11.4	
Light sour crude oil	166.0	161.1	170.6	145.2	135.7	White Rose	14.9	11.6	18.5	14.5	4.2	
Bitumen	76.0	44.5	24.0	31.4	11.8		56.2	46.5	65.6	68.6	24.3	
Total sales	357.0	323.9	304.4	279.3	276.2	Average sales price ⁽¹⁾ (dollars per barrel)	112.39	112.15	108.42	80.20	76.86	
Average sales price ⁽¹⁾ (dollars per barrel)						International						
Light sweet crude oil	97.98	91.17	98.50	79.03	67.26	Production (mboe/d)						
Other (diesel, light sour crude oil and bitumen)	77.62	77.83	84.93	68.63	64.18	North Sea						
Average*	82.83	81.69	88.74	71.69	65.29	Buzzard	55.8	48.0	42.9	55.5	20.0	
Average	82.83	81.69	88.74	69.58	61.66	Other North Sea	_	_	3.8	23.5	12.0	
Operating costs (dollars per barrel)						Other International	20.6	41.5	12.1	25.2	12.7	
Cash operating costs*(2)	37.00	37.05	39.05	36.70	33.95	Libya	20.6	41.5	12.1 17.6	35.2 11.6	13.7	
Cash operating costs – In situ bitumen production only*(2)	16.50	19.40	25.50	20.25	20.25	Syria Trinidad and Tobago			- 17.0	6.7	4.9	
Syncrude						maaa ana roongo	76.4	89.5	76.4	132.5	50.6	
Production (mbbls/d)	32.0	34.4	34.6	35.2	16.1	Average sales price ⁽¹⁾ (dollars per boe)						
Average sales price ⁽¹⁾ (dollars per barrel)	99.82	92.69	101.80	80.93	77.36	Buzzard	107.44	106.12	105.18	77.91	69.53	
ge saise price (doilars per parter)	JJ.UZ	-2.00			.7.50	Other North Sea	_	_	92.49	78.16	73.52	
Operating costs (dollars per barrel)****												
Operating costs (dollars per barrel)**** Cash operating costs*(2) Suncor AnnRnt 2013.	43.20 page 144	39.30	40.45	36.05	32.50	Other International** Suncor AnnRot	107.94 2013. page	110.65	95.76	70.39	61.25	
		39.30	40.45	36.05	32.50	Other International** Suncor AnnRpt			95.76	70.39	61.25	
Cash operating costs*(2)		39.30	40.45			Suncor AnnRpt Suncor AnnRpt Exploration and Production		2018	2017	2016	2015	
Cash operating costs*(2) Suncor AnnRpt 2013,	page 144			201:	5 20	Suncor AnnRpt Suncor AnnRpt		2018 102.8	2017 120.8	2016 119.3	2015 110.6	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands	page 144	2017	2016	201:	5 20	Suncor AnnRpt Suncor AnnRpt Exploration and Production		2018	2017	2016	2015	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d)	2018 628.6	2017 563.7	2016 504.9	201! 463.4	5 <u>20</u> 4 42	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes		2018 102.8	2017 120.8	2016 119.3	2015 110.6	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel)	2018 628.6	2017 563.7 317.7	2016 504.9 258.9	201! 463.4 320.1	5 <u>20</u> 4 42	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes 9.1.1 Exploration and Production Canada		2018 102.8	2017 120.8	2016 119.3	2015 110.6	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen	2018 628.6 280.3 138.0	2017 563.7 317.7 111.7	2016 504.9 258.9 115.9	201! 463.4 320.1 113.5	5 20 4 42 1 28 5 10	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada Exploration and Production Canada		2018 102.8	2017 120.8	2016 119.3	2015 110.6	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel)	2018 628.6	2017 563.7 317.7	2016 504.9 258.9 115.9	201! 463.4 320.1 113.5	5 20 4 42 1 28 5 10	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada		2018 102.8	2017 120.8	2016 119.3	2015 110.6 114.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining	2018 628.6 280.3 138.0	2017 563.7 317.7 111.7 429.4 305.4	2016 504.9 258.9 115.9 374.8	201: 463.4 320. 113.5 433.6	5 20 4 42 11 288 5 10 6 396 3 27-	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d)		2018 102.8 103.4	2017 120.8 121.6	2016 119.3 117.9	2015 110.6 114.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag	2018 628.6 280.3 138.0 418.3 258.8 204.0	2017 563.7 317.7 111.7 429.4 305.4 181.5	2016 504.9 258.9 115.9 374.8 238 180.8	201: 463.4 320. 113.5 433.6 307.3	5 20 4 42 1 288 1 288 5 10 6 396 3 27 9 17;	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d)		2018 102.8 103.4	2017 120.8 121.6	2016 119.3 117.9	2015 110.6 114.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – MacKay River	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0	2017 563.7 317.7 111.7 429.4 305.4 181.5	2016 504.9 258.9 115.9 374.8 238.	2019 463.4 320. 113.5 433.6 307. 186.6 30.	5 2(4 42) 11 28813 10 5 10 6 396 33 27.7 2:77 2:77	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) Hebron (mbbls/d)		2018 102.8 103.4 111.7 22.1	2017 120.8 121.6	2016 119.3 117.9 12.4 26.8	2015 110.6 114.4 13.5 18.1	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – MacKay River Total bitumen production	2018 628.6 280.3 138.0 418.3 258.8 204.0	2017 563.7 317.7 111.7 429.4 305.4 181.5	2016 504.9 258.9 115.9 374.8 238.	2019 463.4 320. 113.5 433.6 307. 186.6 30.	5 2(4 42) 11 28813 10 5 10 6 396 33 27.7 2:77 2:77	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d)		2018 102.8 103.4 111.7 22.1 6.6	2017 120.8 121.6 11.5 28.5	2016 119.3 117.9 12.4 26.8 10.9	2015 110.6 114.4 13.5 18.1 12.2	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0	2017 563.7 317.7 111.7 429.4 305.4 181.5	2016 504.9 258.9 115.9 374.8 238 180.8 27.6 446.4	201 463.4 320. 113.1 433.6 186.6 30.5 524.9	5 26 4 42 11 288 15 10 6 396 7 27 7 27 9 473	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hebroni (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) Hebron (mbbls/d)		2018 102.8 103.4 111.7 22.1 6.6	2017 120.8 121.6 11.5 28.5 11.4	2016 119.3 117.9 12.4 26.8 10.9	2015 110.6 114.4 13.5 18.1 12.2	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining in Situ – Firebag in Situ – MacKay River Total bitumen production Sales (mbbls/d)	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0	2016 504.9 258.9 115.9 374.8 180.8 27.6 446.4	2019 463.4 320. 113.1 433.6 186.6 30.7 524.9	5 2(4 42) 11 28: 15 10: 16 39: 17: 17 2: 19 47:	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d)		2018 102.8 103.4 111.7 22.1 6.6 13.0	2017 120.8 121.6 11.5 28.5 11.4 0.4	2016 119.3 117.9 12.4 26.8 10.9	2015 110.6 114.4 13.5 18.1 12.2	
Cash operating costs*(2) Suncor AnnRpt 2013, Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining in Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil	2018 628.6 280.3 138.0 418.3 204.0 36.0 498.8 96.1 28.8 162.6	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0	2016 504.9 258.9 115.9 374.8 238 180.8 27.6 446.4 47.2 21.2 21.2 21.2 21.2 21.2	2011 463.4 320.1 113.1 433.6 307.3 30.7 524.1 107.0 31.1 182.2	5 26 4 42 11 2883 5 10 6 390 3 27. 7 2. 7 2. 9 47. 9 47.	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d)		2018 102.8 103.4 111.7 22.1 6.6 13.0	2017 120.8 121.6 11.5 28.5 11.4 0.4	2016 119.3 117.9 12.4 26.8 10.9	2015 110.6 114.4 13.5 18.1 12.2	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sour crude oil Upgraded product (SCO and diesel)	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 96.1 28.8 162.6 287.5	2017 563.7 317.7 111.7 429.4 305.4 181.5 518.0 107.9 27.5 319.0	2016 504.9 258.9 115.9 374.8 180.8 27.6 446.4 87.3 21.2 153.4 261.9	2012 463.4 463.4 320. 113.1 433.6 186.5 30.7 524.9 107.6 31.3 182.2	5 224 4 42 42 42 43 42 43 43 43 43 43 43 43 43 43 43 43 43 43	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) Exploration and Production International Production (mboe/d)		2018 102.8 103.4 111.7 22.1 6.6 13.0	2017 120.8 121.6 11.5 28.5 11.4 0.4	2016 119.3 117.9 12.4 26.8 10.9	2015 110.6 114.4 13.5 18.1 12.2	
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Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018,	280.3 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International		2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9	2017 120.8 121.6 11.5 28.5 11.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 2.8 52.9	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Ugraded product (sweet SCO, sour SCO and diesel) Non-ugraded bitumen Oil Sands operations production Bitumen production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Ugpraded product (SCO and diesel) Non-uggraded bitumen Sales Suncor AnnRpt 2018,	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) North Sea D.7 Buzzard Golden Eagle		2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018,	280.3 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International		2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9	2017 120.8 121.6 11.5 28.5 11.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 2.8 52.9	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production Bitumen production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018,	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining in Situ – Firebag in Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANA (mbbls/d)	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production Bitumen production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag Ush – Sales (mbbls/d) Ught sweet crude oil Ught sweet crude oil Uggraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, (mbbls/d) Oil sands	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 264 422 444 424 424 425 444 425 444 425 444 425 444 425 444 426 444	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANA (mbbls/d) Oil sands Suncor	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 10 0 6 396 6 399 17,7 7 2.7 7 2.7 9 47,7 10 99 10 99 17,7 18 8 288 8 288 8 289 8 7 10 5 396	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Total Production (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Hirebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANA (mbbls/s) Oil sands Suncor	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 289 11 289 11 289 11 29 12 29 17 22 19 47 10 99 17 10 99 18 10	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production (mboe/d) Exploration and Production Canada Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North America Onshore (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁽ⁱ⁾ Suncor AnnRpt	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 2.4 47.0	
Cash operating costs*(a) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – Firebag Ught sweet crude oil Ulght sweet crude oil Ulght sweet crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANA (mbbls/d) Oil sands Suncor Million bbl /yr 90	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 289 5 10 6 396 6 396 6 397 7 2: 9 17: 7 2: 9 47: 9 47: 10 39 3 3 33 3 33 3 33 3 34 3 5 15 5 15 5 15 5 15 5 15 5 15 5 15 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Septoration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International North Sea Buzzard Golden Eagle Other International Libya ⁽⁰⁾ Suncor AnnRpt PERATIONS Iles volumes, net of crude oil purchases	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 1.9 53.7	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bittumen Oil Sands operations production Bittumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bittumen production Sales (mbblx/d) Light sweet crude oil Diesel Light sour crude oil Upgraded product (SCO and diesel) Non-upgraded bittumen Sales Suncor AnnRpt 2018, CANA (mbbls/mbbls Suncor	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 5 10 5 5 10 6 33 27 7 2 9 9 473 7 2 9 9 473 7 2 9 9 473 7 10 9 5 15 5 15 5 5 15 5 5 5 5 15 5 5 5 5 5 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰ Suncor AnnRpt PERATIONS titles Volumes, net of crude oil purchases Total (mmbbls/s)	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 0.7 1.9 53.7 43.8 19.6 67.9	2016 119.3 117.9 12.4 26.8 10.9 	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – Firebag Ught sweet crude oil Ulght sweet crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANN (mbbls Suncor million bbl /yr 102.4 2014	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 5 10 5 5 10 6 33 27 7 2 9 9 473 7 2 9 9 473 7 2 9 9 473 7 10 9 5 15 5 15 5 5 15 5 5 5 5 15 5 5 5 5 5 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Septoration and Production Canada East Coast Canada Terra Nova (mbbls/d) Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Exploration and Production International North Sea Buzzard Golden Eagle Other International Libya ⁽⁰⁾ Suncor AnnRpt PERATIONS Iles volumes, net of crude oil purchases	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 0.7 1.9 53.7 43.8 19.6 67.9	2016 119.3 117.9 12.4 26.8 10.9 — 2.8 52.9 46.0 18.6	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ - Firebag In Situ - MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANN (mbbls Oil sands Suncor million bbl /yr 102.4 106.1 2015	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 5 10 5 5 10 6 33 27 7 2 9 9 473 7 2 9 9 473 7 2 9 9 473 7 10 9 5 15 5 15 5 5 15 5 5 5 5 15 5 5 5 5 5 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰ Suncor AnnRpt PERATIONS titles Volumes, net of crude oil purchases Total (mmbbls/s)	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 0.7 1.9 53.7 43.8 19.6 67.9	2016 119.3 117.9 12.4 26.8 10.9 	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Briebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Light sweet crude oil Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CANN (mbbls Suncor Million bbl /yr 60 102.4 2014 106.1 2015 622.8 2016	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 5 10 5 5 10 6 33 27 7 2 9 9 473 7 2 9 9 473 7 2 9 9 473 7 10 9 5 15 5 15 5 5 15 5 5 5 5 15 5 5 5 5 5 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰ Suncor AnnRpt PERATIONS titles Volumes, net of crude oil purchases Total (mmbbls/s)	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 0.7 1.9 53.7 43.8 19.6 67.9	2016 119.3 117.9 12.4 26.8 10.9 	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
Cash operating costs*(2) Suncor AnnRpt 2013, Oil Sands Total Production (mbbls/d) Oil Sands Operations Production (mbbls/d) Upgraded product (sweet SCO, sour SCO and diesel) Non-upgraded bitumen Oil Sands operations production Bitumen production (mbbls/d) Mining In Situ – Firebag In Situ – Firebag In Situ – MacKay River Total bitumen production Sales (mbbls/d) Upgraded product (SCO and diesel) Non-upgraded bitumen Sales Suncor AnnRpt 2018, CAN/A (inbbls/d) Oil sands Suncor million bbl /yr 102.4 106.1 2015 622.8 2016 685.3 2017	2018 628.6 280.3 138.0 418.3 258.8 204.0 36.0 498.8 162.6 287.5 134.0 421.5 page 139	2017 563.7 317.7 111.7 429.4 305.4 181.5 31.1 518.0 107.9 27.5 319.0 110.6 429.6	258.9 258.9 115.9 374.8 27.6 446.4 87.3 21.2 21.2 261.9 117.4	2011 463.4 320. 113.1 307. 307. 524.9 107. 31. 122. 320.8 107. 428.5	5 26 4 42 11 288 5 10 5 5 10 6 33 27 7 2 9 9 473 7 2 9 9 473 7 2 9 9 473 7 10 9 5 15 5 15 5 5 15 5 5 5 5 15 5 5 5 5 5 5	Suncor AnnRpt Exploration and Production Total Sales Volumes (mboe/d) Production Volumes Exploration and Production Canada East Coast Canada Terra Nova (mbbls/d) 4.4 Hibernia (mbbls/d) White Rose (mbbls/d) Hebron (mbbls/d) North America Onshore (mboe/d) Production (mboe/d) North Sea Buzzard Golden Eagle Other International Libya ⁶⁰ Suncor AnnRpt PERATIONS titles Volumes, net of crude oil purchases Total (mmbbls/s)	2013, page	2018 102.8 103.4 111.7 22.1 6.6 13.0 0.5 53.9 34.2 12.4 2.9 49.5	2017 120.8 121.6 111.5 28.5 11.4 0.4 0.7 1.9 53.7 43.8 19.6 67.9	2016 119.3 117.9 12.4 26.8 10.9 	2015 110.6 114.4 13.5 18.1 12.2 47.0 49.8 14.8 67.4	
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Cell: J9

Comment: Rick Heede:

History: "The skeptics said Canada's oil sands could never be developed commercially. In 1967, Suncor Energy proved them wrong. Our people — their perseverance, dedication and innovation — turned vision into reality. Today, Suncor is Canada's premier integrated energy company, the fifth largest North American energy company and has a place on the global stage as one of the largest independent energy companies in the world. We provide thousands of well-paid jobs, put millions of dollars into Canadian businesses every year, take action on environmental issues, and support our communities by funding local initiatives. Our track record as an oil sands pioneer is both cause for celebration and inspiration for the future. Look to Suncor to continue leading the way — expanding our oil sands operations to one of the world's largest positions, developing renewable energy and investing in new technologies to improve our environmental performance. We're still making history." www.suncor.com/en/about/1918.aspx
"Suncor was founded in 1919 in Montreal as Sun Company of Canada, a subsidiary of Sun Oil (now Suncoc). In 1979, Sun formed Suncor by merging its Canadian refining and retailing interests; Great Canadian Oil Sands (a

majority-owned subsidiary, which constructed and operated the first commercial plant to develop Canada's Athabasca oil sands and went on production in 1967); and its conventional oil and gas interests. In 1981, the Government of Ontario purchased a 25% stake in the company; it divested in 1993. In 1993 Sun Oil also divested its interest in the company, although Suncor maintained the Suncor retail brand in Canada. Suncor took advantage of these two divestitures to became an independent, widely-held public company.

On March 23, 2009, Suncor announced the acquisition of Petro-Canada. This merger created a company with a combined market capitalization of C\$43.3 billion. On 4 June 2009, a 98% approval rate was reached by Suncor's shareholders for the acquisition of Petro-Canada and the competition bureau approved the merger on June 21, 2009. The merger with Canada's 11th largest company was completed on August 1, 2009 in a \$21 billion deal to form the second-largest company in Canada." Suncor (wikipedia: en.wikipedia.org/wiki/Suncor_Energy)

In 2016 Suncor Energy purchased all of the shares of Canadian Oil Sands Limited.

Cell: D12

Comment: Rick Heede:

Total net worldwide crude oil plus natural gas liquids produced by each company or state-owned enterprise. Where data is available, we list net production.

Crude production includes natural gas liquids (NGL) unless noted

Comment: Rick Heede:

Natural gas is typically reported as dry gas; natural gas liquids are reported under crude oil.

Carbon dioxide is normally removed from the gas flow at the production site (see "Vented Carbon Dioxide").

"SCM/d" = standard cubic meters per day. "cf/d" = cubic feet per day.

Net production typically excludes a number of diverted gas streams. Quantities and fractions vary; ExxonMobil's exclusions are probably typical of the industry: "Net production available for sale quantities are the volumes withdrawn from ... natural gas reserves, excluding royalties and volumes due to others when produced, and excluding gas purchased from others, gas consumed in producing operations, field processing plant losse volumes used for gas lift, gas injections and cycling operations, quantities flared, and volume shrinkage due to the removal of condensate or natural gas liquids production." ExxonMobil Corporation (2004) 2003 Financial and Operating Review, www.exxonmobil.com, p. 55.

Cell: N40

Comment: Rick Heede

Suncor's (then Sun Oil Company Ltd) started construction of its Great Canadian Oil Sands plant in Fort McMurray in 1964.

Photo courtesy Suncor website: The Oil Sands Story (1960s, 1970s & 1980s).

Cell: D54

Comment: Rick Heede:

OGJ data for 1987-2005, company data 2006-2008; see column "L".

Cell: E54

Comment: Rick Heede:

OGJ data for 1987-1998, company data 1999-2008; see column "M".

Cell: J54

Comment: Rick Heede:

CMS cites Oil & Gas Journal OGJ100 natural gas production estimates for 1987-2005, and Petro-Canada's AnnRpt data for 2006-2008.

Cell: K54

Comment: Rick Heede

CMS cites Oil & Gas Journal OGJ100 data for 1987-2003, and company data for 2004-2008.

Cell: K58

Comment: Rick Heede:

OGJ100 reports 0.0 gas production in 1991. In view of bracketed by higher production in prior and subsequent years suggests erroneous data for 1991-1993.

Cell: E66

Comment: Rick Heede:

Suncor Annual Rpt 2003, page 3, Suncor oil sands production in 2003 of 216.600 bbl per day = 79.1 million bbl per year.

Cell: G70

Comment: Rick Heede: Cell: E71

Oil & Gas Journal OGJ100. Sept 2004. The company has been operating since 1995, but earlier production data has not been found.

Comment: Rick Heede:

Suncor Annual Rpt 2007, page 34 confirms Oil & Gas Journal OGJ100 production estimates, e.g., Suncor oil sands production in 2007 of 235,600 bbl per day = 62.5 million bbl per year.

Cell: K71

Comment: Rick Heede:

Suncor 2008 Annual Rpt, page 1 shows natural gas production in BOE. CMS uses the conventional 6,000 cf per bbl of oil equivalent in Suncor's absence of definition. Thus 2008: 36.7 thousand BOE * 6,000 cf/BOE *0.365 =80.4 Bcf.

Cell: D73

Comment: Rick Heede

Petro-Canada Annual Rpt 2008, page 33; oil sands production and bitumen production totaled 52,200 bbl per day in 2006, 56,900 bbl per day in 2007, and 59,900 bbl per day in 2008. CMS converts to million bbl per

Petro-Canada reports crude oil and oil sands production in three separate tables (pp. 33, 38, and 42, oil sands, other Canada, and international production, respectively). In 2008, production in these regions totaled, in thousand bbl per day: (59.9+90.5+157.2)*0.365 = 112.3 million bbl for the year. Then, on page 48, total average daily production for 2008 is 266,000 bbl per day for crude oil, NGL, and bitumen ("net before royalties," and 222,900 bbl /day "net after roaylties," PLUS 34,700 of synthetic crude oil (before royalties, or 29,700 bbl /day after royalties).

Thus CMS revises the previous calculation by reporting total petroleum (after royalties of 222,900 + 29,700 bbl per day = 92.20 million bbl in 2008.

Similar data for 2007 shows 238,700 + 31,100 bbl per day = 98.48 million bbl in 2007.

Cell: J73

Comment: Rick Heede:

Petro-Canada (2009) 2008 Annual Report, page 29. 2006 gas production of 701 million cf/d, 2007 = 674 million cf/d, and 2008 = 665 million cf/d. CMS converts to Bcf/yr.

Suncor AnnRpt 2008, page 48: 2008 gas production "net before royalties" totaled 706 million cf/day (and 585 million cf/day "net after royalties"). And for 2007: gas production "net before royalties" totaled 728 million cf/day (and 594 million cf/day "net after royalties").

CMS uses "net after roaylties" data for 2007 and 2008.

Cell: G74

Comment: Rick Heede:

Canadian Oil Sands Trust Annual Report 2008. Page 3 shows "sales volumes, net of crude oil purchases" for 2007 and 2008. 2008: 105,986 bbl per day (39 Mb). CAI also estimates daily production from chart (p. 3) of sales 2004 to 2008 (see below).

Cell: E75

Comment: Rick Heede

Suncor 2008 Annual Rpt. page 3.

Cell: E76

Comment: Rick Heede:

AR 2010 pg 10, oil sands in 306.7 thousand boe/d in 2009 and 318.2 k bbl/day in 2010.

Cell: K76

Comment: Rick Heede:

Suncor AR 2010 pg 10; nat gas continuing operations+discontinued operations; equals 2008 reported production. Units in BOE of gas production (at 6,000 cf per bbl).

Cell: G78

Comment: Rick Heede:

Canadain Oil Sands production of oil bitumen and/or synthetic oil, in Mb. Oil&Gas Journal OGJ100 Sep 2013.

Cell: H78

Comment: Rick Heede:

Suncor Annual Report 2013, Operating Summary, page 19 (see table above). Only reports BOE (bbl oil equivalent), with no gas to oil conversion nor gas production volumes data. I add data on oil sands production plus exploration and production (which in Suncor language means conventional oil and gas, offshore and onshore, Canada, United States, Syria, Libya, North Sea, etc), in thousands bbl per day converted to annual liquids production -- then subtract gas production (OGJ data, since Suncor provides none) at 6,000 cf per bbl. Whew.

Cell: K78

Comment: Rick Heede:

Suncor natural gas production, in Bcf. Oil&Gas Journal OGJ100 Sep 2013.

Cell: D81

Comment: Rick Heede:

Suncor 40-F for 2015. Inscrutable and unclear regarding annual producction. I surmise that SCO (synthetic crude oil) and bitumen production is listed on paage 14, and shows sum of sweet SCO and sour SCO (458.3 thousand bbl per day in 2015).

Crude oil and NGLs are shown on page 17, totaling 106.1 thousand bbl per day.

E&P International includes UK North Sea and Norway, and Libya; Syria operations force majeure as of 2011. Intermittent production in Libya as of 2013.

Cell: K81

Comment: Rick Heede:

Suncor 40-F for 2015. E&P Canada 3.0 thousand boe per day; plus E&P international 1.5 kboepd. Conversion rate not stated, but assumed at 5,800 cf per boe.

Cell: E83

Comment: Rick Heede:

Suncor 2017 Ann rpt, page 17: in 2017: 685.3 kboepd (100% liquids, of which 563.7 kboepd oil sands). In 2016: 622.8 kboepd toal, of which 504.9 kboepd oil sands and 117.9 kboepd "exploration and porduction" (presumably crude oil); 2016 product mix: 99% liquids, 1% gas. Gas data from OGJ Sep 2017, OGJ100.

Cell: R83

Comment: Rick Heede:

Suncor 2017 Ann rpt, page 17: in 2017: 685.3 kboepd (100% liquids, of which 563.7 kboepd oil sands). In 2016: 622.8 kboepd toal, of which 504.9 kboepd oil sands and 117.9 kboepd "exploration and porduction" (presumably crude oil); 2016 product mix: 99% liquids, 1% gas. Gas data from OGJ Sep 2017, OGJ100.

Cell: E85

Comment: Rick Heede:

Suncor Annual Report 2018, page 137. Shows Five year operating summary. Oil Sands, Total production as 628.6 thousand bbl per day for oil sands and bitumen (both mined and in situ). No table for conventional oil production of either oil or natural gas.

Cell: K85

Comment: Rick Heede:

Suncor does produce associate gas -- on Canada's east coast operations (Terra Nova, Hibernia, White Rose, and Hebron) -- but provides no production dat, which suggests offshore gas production is flared. Gas production averred in Five year operating summary (Suncor Annual Report 2018, page 139) which does not specify gas production but does report total production in North Sea and Libya in thousand boe per day (49.5 thousand boe per day).

Cell: R85

Comment: Rick Heede:

Suncor Annual Report 2018, page 137. Shows Five year operating summary. Oil Sands, Total production as 628.6 thousand bbl per day for oil sands and bitumen (both mined and in situ). No table for conventional oil production of either oil or natural gas.