

OPERATIONS AND PERFORMANCE



Syncrude is one of the largest producers of crude oil from oil sands. Our oil production facility has the capacity to produce over 15% of Canada's total oil requirements.

To do this, we surface mine oil sand, extract the raw oil known as bitumen from the sand using water-based processes and upgrade that bitumen into a high quality, light sweet crude oil through fluid coking, hydroprocessing, hydrotreating and reblending.

Our final product, Syncrude Sweet Premium (SSP), is sent by pipeline to Edmonton area refineries and to pipeline terminals which ship it to refineries in Canada and the United States. Once the product leaves our plant site, transportation and marketing become the responsibilities of our joint venture participants. Bitumen is not shipped from our operations.

Our operations are guided by a commitment to meet the expectations of Canadians for responsible development. Towards this, Syncrude invests significantly in innovation, making us one of the top spenders on research and development in the country.

Operations Performance Metrics

Performance Data	2015	2016	2017	2018	2019
Operations:					
SSP produced ¹ (million barrels)	90.6	99.2	91.2	91.0	107.3
SSP produced ¹ (million m ³)	14.4	15.8	14.5	14.5	17.1
SSP produced ¹ (thousand barrels per day)	248	271	250	249	294
Bitumen produced (million barrels)	109.0	116.1	109.0	108.5	127.6
Bitumen produced (million m ³)	17.3	18.5	17.3	17.3	20.3
Bitumen recovery (%)	90.5	90.8	91.2	91.4	92.7
Upgrading yield (%)	85.0	86.2	83.4	85.6	85.8
Significant Spills ²	0	0	0	0	0
Environmental Compliance Incidents ³	24	20	18	10	9
Environmental fines (\$ million)	0	0	0	0	2.75
Environmental protection orders (#)	1	0	0	0	0

1 Production is Syncrude Sweet Premium (SSP) crude oil shipped.

2 Spills or leaks of hydrocarbons, chemicals, waste water and/or recycle water which were not fully captured nor directed into approved containment or disposal. All releases regardless of volume are reported to the Alberta Energy Regulator (AER) and Alberta Environment and Parks (AEP).

3 An Environmental Compliance incident is a failure, equipment bypass, or upset, that results in a numerical limit exceedance or operating without a control device (or a malfunctioning control device) as identified in Syncrude's AEPEA Operating Approval.