

SaskPower's Boundary Dam 3 (BD3) Coal-Fired Power Plant Carbon Capture and Storage Project Performance Summary

2023	226,184.0
2022	749,035.0
2021	442,126.1
2020	729,092.0
2019	616,119.0
2018	625,996.0
2018	300,912.0
2017	506,848.0
2016	792,500.0

Total tonnes CO2 captured 2016-2023 4,988,812.1

Average annual CO2 tonnes captured 2016-2023 604,704.5

(Plant was designed to capture 1 million tonnes/year with 90% of CO2 captured.)

Total tonnes captured since startup 5,227,891.0

Difference = Likely 2014 and 2015 capture 239,078.9

Total Estimated Costs as of September 30, 2016: **\$1,500,000,000**

Lower Bound Cost per Tonne of CO2 captured: \$286.92

(Canadian dollars)

http://sequestration.mit.edu/tools/projects/boundary_dam.html

There were significant operations and maintenance costs since 09/30/16

**Original coal-fired plant 139 MW gross upgraded to 160 MW gross;
Net after CO2 capture retrofit (1Mt/yr) is 110 MW net. (50 MW losses)**

(About half the CO2 escapes to the atmosphere during enhanced oil recovery, doubling capture cost.)

Plant will be decommissioned or converted to natural gas circa 2024

Data Source Includes SaskPower Reports up to 04/20/23

<https://www.saskpower.com/about-us/our-company/blog/2023/bd3-status-update-q1-2023>

BD3 Status Update: Q1 2023

Thursday, April 20, 2023