

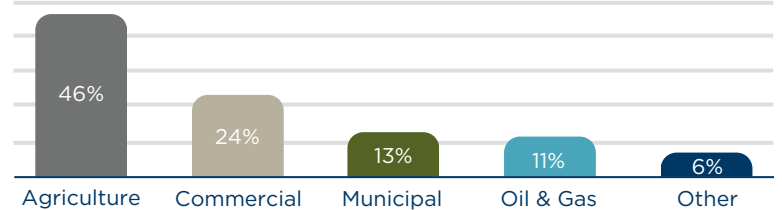
# 5 FAST FACTS ON ALBERTA'S UPSTREAM OIL & GAS WATER USE



1

The oil and gas industry has the fourth largest water allocation in Alberta, representing **11 per cent** of the total licensed volume (as of 2023).

Water Allocation by Sector (2023)

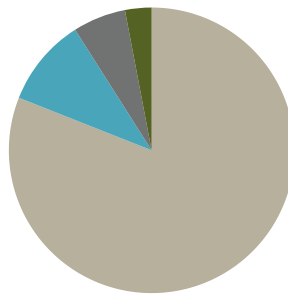


Source: Alberta Environment and Protected Areas

2

Fresh Water Use by Sub-sector (2022)

- Oil sands mining (81%)
- Hydraulic fracturing (10%)
- In situ oil sands (6%)
- Enhanced oil recovery (3%)



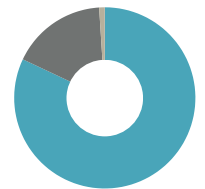
The oil and gas industry used **261.5 million cubic metres** of fresh water in Alberta in 2022. Most of this water was used for oil sands mining.

3

Most of the Alberta oil and gas industry's water needs are met with **recycled water**.

Water Use Sources (2022)

- Recycled water (82%)
- Fresh water (17%)
- Alternative water (1%)

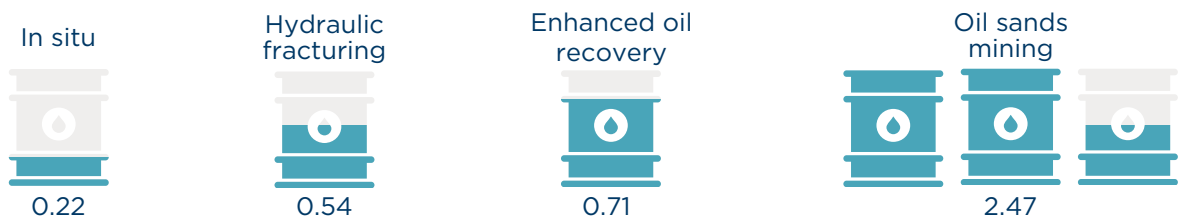


4

Fresh water use intensity varies by sub-sector, ranging from **0.22 to 2.47 bbl/BOE**.

Average Fresh Water Use Intensity by Sub-sector (2013 - 2022)

Number of barrels (bbl) of water needed to produce one barrel of oil equivalent (BOE)



5

10-Year Change (2013 - 2022)

- Hydrocarbon production (BOE) **↑ 109%**
- Fresh water use (m<sup>3</sup>) **↑ 16%**
- Fresh water use intensity (bbl/BOE) **↓ 22%**

The Alberta oil and gas industry's average fresh water use intensity **improved by 22 per cent** from 2013 to 2022.