

Technology

Overview

SAGD

Enhancing SAGD

COSIA

Evok Innovations

Cogeneration

SkyStrat™ drilling rig

Cenovus Environmental Opportunity Fund

Technology submissions

Steam to oil ratio (SOR)

- ✓ A key measure of efficiency for operations using SAGD technology is the amount of steam needed to produce a barrel of oil, called steam to oil ratio (SOR). It's thanks to the quality of our assets and our team's dedication to improving operational
- ✓ performance that our SAGD projects at Foster Creek and Christina Lake had a combined steam to oil ratio of approximately 2.1 in 2015.

This means we used approximately 2.1 barrels of steam to produce one barrel of oil. The water we convert to steam is primarily brackish water, which is not suitable for animal or human consumption, or agriculture, and is mostly recycled.

- ✓ This is among the lowest SOR in the industry. A low SOR allows us to grow and sustain production with comparatively smaller plants and lower energy usage and emissions, all of which results in a smaller environmental footprint.

How we get oil out of the ground

Watch this animation of steam-assisted gravity drainage (SAGD) to learn how we use steam to separate oil from sand that's deep underground.



[Watch this animation of how SAGD works on YouTube](#)

Related links

- ▶ [Foster Creek](#)
- ▶ [Christina Lake](#)