

Raising the bar in Oil Sands

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Shell's Canadian Oil Sands Assets



Why Heavy Oil?



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Industry initiatives

- CAPP Oil Sands CEO Task Group has led significant progress in past two years on industry communication in Canada
- Shell involvement in developing Oil
 Sands Tailings Consortium (launched
 Dec 2010) and subsequently Canada's
 Oil Sands Innovation Alliance (launched
 March 2012) to accelerate
 improvement in environmental
 performance in the issues common to oil
 sands operators



Vision: To be the leading company in environmental performance in Heavy Oil through actions that generate significant improvement in CO_2 , water and land management.

CO ₂	Fresh Water	Land
Equivalent intensity to average barrel refined in US	No use of river water	Net neutral land disturbance
■ Energy efficiency	Optimize current use	■ Interim reclamation
■ Lower carbon energy	■ Brackish H ₂ O for insitu	Conservation offsets
■ Quest CCS	■ Technology R&D	■ Tailings management
■ Business related offsets	■ Facility integration	■ Ore recovery R&D

Quest carbon capture and storage









Carbon Capture and Storage could be one answer to rising CO₂ emissions.

It captures CO₂ from industrial facilities and stores it permanently deep underground.

Beginning in 2015, the Quest CCS project will capture CO₂ from the Scotford Upgrader in Alberta.

Learn more at: www.shell.ca/quest

CARBON CAPTURE AND STORAGE. PUTTING CO₂ IN ITS PLACE.



