A world-leading carbon capture and storage network

WHO WE ARE

To help Canada meet its climate and environment goals, the Pathways Alliance—which consists of Canada's six largest oil sands producers who operate facilities representing about 95% of Canada's oil sands production—is working on an ambitious plan to reduce greenhouse gas emissions from oil sands production in phases, with the ultimate goal of net zero emissions by 2050.

By doing our part to help Canada reduce emissions, our country can be the preferred supplier of responsibly produced oil to the world. This will help preserve the jobs and long-term economic stability that come from Canada's energy sector.

OUR FOUNDATIONAL PROJECT

The Pathways vision is anchored by a major carbon capture, utilization and storage system and transportation line connecting oil sands facilities in the Fort McMurray, Christina Lake and Cold Lake regions of Alberta to a carbon storage hub near Cold Lake.

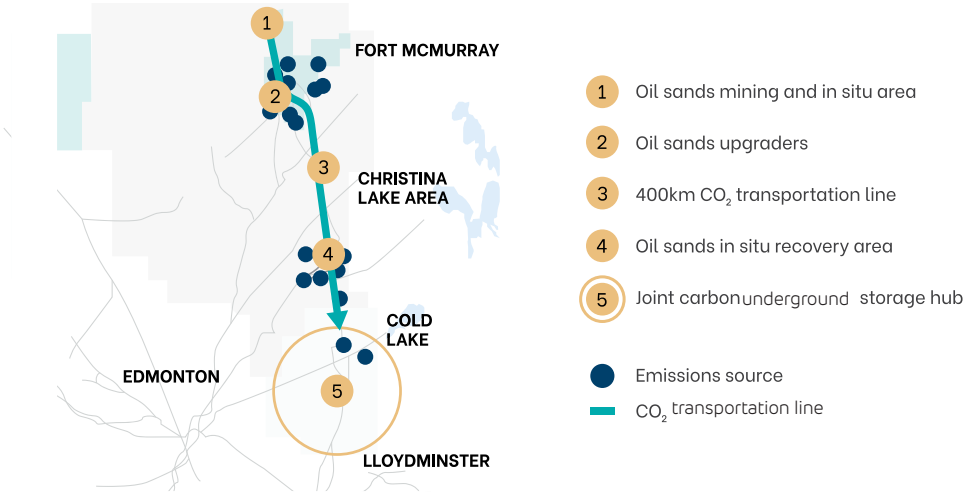
This transportation line will eventually be expanded to capture carbon dioxide (CO_2) from more than 20 oil sands facilities and transport it to the Cold Lake storage hub.

PHASE 1

Net reduction volumes of 10 megatonnes of **CO_2/YEAR FROM 11 FACILITIES.**

LATER PHASES

Expansion capability for a total net reduction of **UP TO 40 megatonnes/YEAR** from more than 20 facilities.



PROJECT SCOPE

The Pathways Alliance project could see more than 1,100 megatonnes of CO_2 transported along a 400-kilometre pipeline and safely stored deep underground in the storage hub. This is enough storage to achieve the Pathways Alliance goal of net zero greenhouse gas emissions by 2050.

The project will also accommodate other industries in the region interested in capturing and storing CO_2.

Pathways Alliance

Foundational project details

PRELIMINARY PHASE

Careful site selection and rigorous monitoring serve to ensure the CO_2 remains sequestered safely underground.

To minimize land disturbance, the transportation line will parallel existing pipeline rights-of-way to the greatest extent possible.

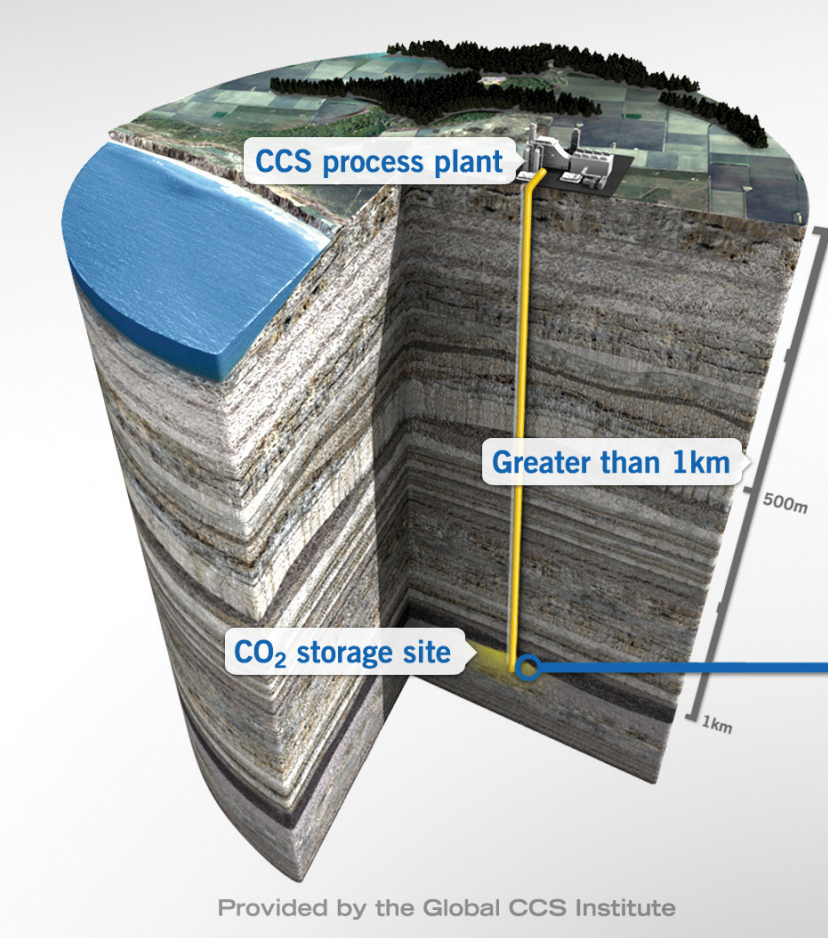
The storage hub will be located more than 1,000 metres below the surface, the length of approximately 10 football fields – which is deeper than any fresh water sources.

Pathways Alliance scientists, engineers, and other experts have decades of experience developing carbon capture technologies, which demonstrates Alberta has an abundance of ideal geological properties with natural trapping mechanisms that will contain the CO_2 deep underground in the storage hub area.

Extensive monitoring will be in place during all stages of development and operations.

TIMELINES

While we wait for approvals, we continue to move forward with preliminary stages of design and engineering. After regulatory approvals are complete, the Pathways Alliance could begin safely injecting and storing CO_2 by late 2026.



The CO_2 storage hub will be located more than 1,000 metres below the surface, which is significantly deeper than any fresh water sources.

Visit the Pathways Alliance website at www.pathwaysalliance.ca. You can also reach us at contact@pathwaysalliance.ca

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