

# EXPLORE YOUR FUTURE IN ENERGY

## OUR ENERGY FUTURE - Utilizing technology to accelerate environmental improvements, creating a sustainable, long-term industry

As a leading investor in Research and Development (R&D), we are in a unique position to find innovative ways to continuously improve our business and enhance environmental practices. This approach is key to ensuring a sustainable future.

### Advancing Innovation to Drive Performance

Our performance is driven by strong commitment to doing our part to lower greenhouse gas (GHG) emissions, and helping to position Canada as the supplier of choice for safe, secure, reliable and environmentally responsible energy the world needs.

### Continuous Improvement in GHG Emissions

The main driver for reducing GHGs is gaining efficiencies as we continuously improve operations.

**~\$3.7 BILLION INVESTED**  
BY CANADIAN NATURAL IN R&D SINCE 2009



Game changing technology and Canadian ingenuity to reduce GHG emissions



Collaborating across industries and borders to further improve environmental performance



Accelerating reclamation through industry-leading approaches



Focused on continuous improvement across operations

### Corporate GHG Emissions Intensity

**14.7**  
MT CO<sub>2</sub>e

**solution gas conserved since 2015**

Same as removing ~625,000 passenger vehicles annually from the road over the same period

**2.7**  
MT CO<sub>2</sub>e/Year

**capture capacity**

Sixth largest owner of CCS capacity in the global crude oil and natural gas sector, based on data from the Global Carbon Capture and Storage Institute

**16%**  
**reduction since 2015**

Corporate GHG emissions intensity

### Sustainable Operations Through Innovation and Collaboration

Our industry was founded on technology and innovation, and joining forces with our peers will help ensure it remains sustainable and productive for years to come. By tapping into as much different experience and expertise as possible, Canadian Natural and our peers are making real progress, implementing tangible change. Here are some current industry collaborations and networks that Canadian Natural is involved with:



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## Innovative Approaches to Reclamation

As part of our commitment to responsible operations, we work to reduce and manage our impact on the land. Every effort is made to return the landscape to a healthy ecosystem upon completion of the project, working closely with landowners and land managers. Continuous improvement and innovation leads to increasingly efficient reclamation work.

### 1,628

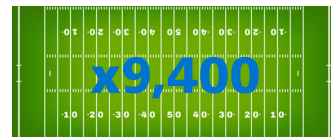
HECTARES RECLAIMED TO DATE IN OIL SANDS MINING



Equivalent to ~30 West Edmonton Malls

### 7,600+

HECTARES RECLAIMED IN NORTH AMERICA E&P SINCE 2015



Equivalent to ~9,400 Canadian football fields

### 4.3 MILLION

TREES PLANTED TO DATE ACROSS OPERATIONS



Equivalent to ~238 New York Central Parks

## The Journey to Net Zero Emissions

We believe achieving [net zero GHG emissions](#) in our oil sands operations is possible by leveraging technology, innovation and Canadian ingenuity.

### Carbon Capture, Utilization, and Sequestration/Storage (CCUS)

We are leading the oil and natural gas industry in CCUS initiatives. We are the fifth largest industry owner of CCUS capacity in the world, and the largest in Canada, based on data from the Global Carbon Capture and Storage Institute.

[Learn more here.](#)



### In-Pit Extraction Process (IPEP) in Tailings

IPEP reduces materials transportation and could reduce GHGs by up to 40%. This process also produces stackable dry tailings, eliminating tailings ponds.

[Learn more here.](#)



### Solvent Enhanced Oil Recovery

Solvents increase efficiencies, cuts up to 50% GHG emissions intensity, reduces water use, and minimizes our carbon footprint. We are currently piloting this technology at our Kirby South facility.

[Learn more here.](#)



### NRG COSIA Carbon XPRIZE

The US\$20 million NRG COSIA Carbon XPRIZE is a global competition to re-imagine what we can do with carbon dioxide (CO2) emissions using technology. Canadian Natural is a proud sponsor of this innovative contest.

[Learn more here.](#)



## Be Part of the Energy Solution!

At Canadian Natural, we recognize climate change as a global effort and have made it a priority to reduce environmental impacts where we operate. By leveraging technology and innovation, we work towards our aspirational goal of reaching net zero emissions in the oil sands.

The oil and natural gas industry is evolving and needs passionate minds developing changes from within. As future leaders, you have an opportunity to be part of the energy solution locally, while making meaningful contributions globally.

Visit [www.cnrl.com](http://www.cnrl.com) to learn more about Canadian Natural.