

2019 ESG Highlights

Canadian Natural's leading performance

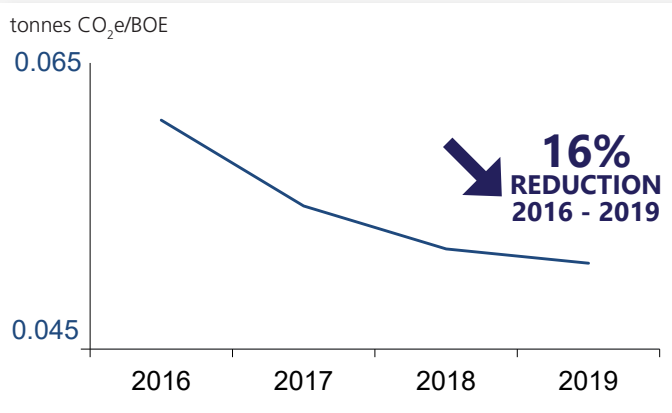


Canadian Natural has an integrated Environmental, Social and Governance (ESG) approach that reflects a long-term commitment to sustainable development and creating value for stakeholders.

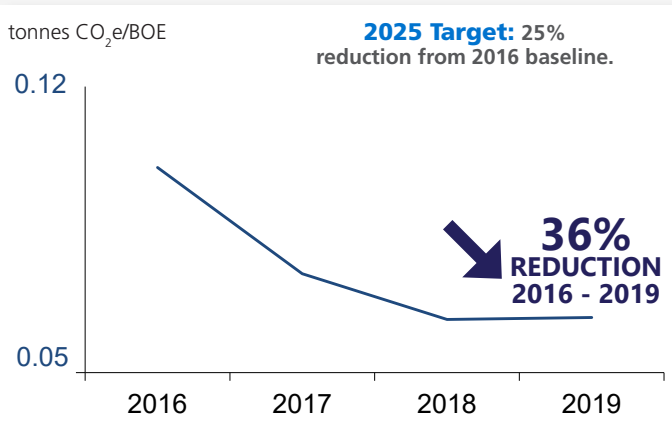
ENVIRONMENT

Greenhouse gas (GHG) emissions

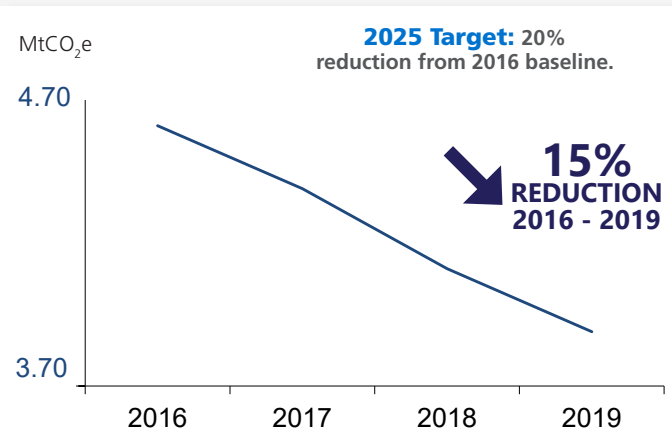
Corporate Scope 1 (Direct) GHG Emissions Intensity



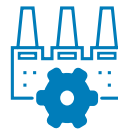
Oil Sands Mining and Thermal GHG Emissions Intensity



North America E&P Methane Emissions



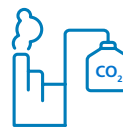
Innovation and technology



\$3.7 billion invested since 2009 in Research & Development



\$77.4 million invested in 2019 in GHG research, technologies and projects



Largest owner of carbon capture capacity in the Canadian crude oil and natural gas sector
6th largest globally

Journey to net zero

Our defined pathway is driving long-term GHG emissions reductions through an integrated emissions management strategy and investment in research and technology, on our journey to net zero oil sands emissions.

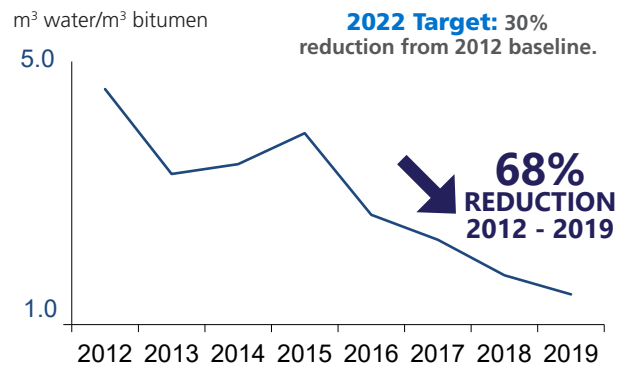
Near-Term Actions	
<ul style="list-style-type: none"> In-Pit Extraction Process (IPEP) pilot Solvent Enhanced Oil Recovery (EOR) pilots Enhanced detection and measurement technologies for fugitive emissions reduction Pneumatic retrofits Net zero/ultra-low emissions heavy oil pad 	<ul style="list-style-type: none"> Carbon capture and storage (CCS) Horizon's CO₂ sequestration Quest CCS project North West Refinery/ Alberta Carbon Trunk Line
Medium-Term Actions	
<ul style="list-style-type: none"> IPEP commercialization Solvent EOR commercialization Titanium Corporation technology 	<ul style="list-style-type: none"> NRG COSIA Carbon XPRIZE Molten carbonate fuel cells pilot Leverage CCS expertise to optimize projects
Long-Term Actions	
<ul style="list-style-type: none"> Carbon capture and conversion (carbon fibers, asphalts, plastics) Molten carbonate fuel cells commercialization Expand/develop future CCS projects 	

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Water use


Oil Sands Mining Fresh River Water Use Intensity



Includes river water and tributaries.

Reclamation

 **4.3 million**
trees planted to date across all operations

 **2,035**
inactive wells abandoned in 2019, a corporate record

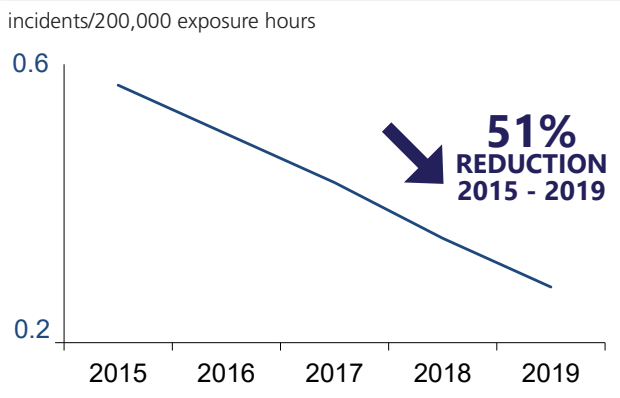
 **7,600+**
hectares reclaimed in North America E&P since 2015

 **1,628**
hectares reclaimed in oil sands mining to date

SOCIAL

Health and safety

Corporate TRIF vs Man-hours Worked



Community

 **\$2.44 billion**
Contributions to Canadian economy (royalties, land leases, property and corporate taxes)

 **79,820**
Full Time Equivalent (FTE) jobs supported by operational and capital spending in our Canadian operations

 **\$25 million**
Total community investment

 **\$550+ million**
In contracts with more than 150 Indigenous businesses

GOVERNANCE



37.5%

Female Independent Directors of the Board, achieving the Board gender diversity target of 30%

ESG performance

is linked to executive compensation

Robust governance and risk management of ESG issues

by Board of Directors and Management Committee

16 years

of sustainability reporting

For more information on our ESG Performance, read our [2019 Stewardship Report to Stakeholders](#).