

THE

BILLION

TONNE

BLUEPRINT





ACRONYMS & ABBREVIATIONS IN THIS REPORT

BECCS bioenergy with carbon capture and storage

BICRS biomass carbon removal and storage

CCUS carbon capture, utilisation, and storage

CO₂ carbon dioxide

DAC direct air capture

GIGATONNE billion metric tonnes

MEGATONNE million metric tonnes

MRV monitoring, reporting, and verification

RD&D research, development, and demonstration

The Billion Tonne Blueprint

Executive Summary	4
What is Carbon Removal?	7
Our Vision	12
The Seven Dimensions for Scaling Carbon Removal	14
The Billion Tonne Blueprint	16
2025 — Laying the Foundation	17
2030 — Catalyzing Permanent Carbon Removal	18
2035 — Canada as a Global Hub for Carbon Removal	20
2040 — Carbon Removal as a Trusted Canadian Export	22
2050 — Delivering Outsized Global Impact	23
Here's How We Lead	24
Carbon Removal Canada's Role	25
Appendix & Endnotes	26



Executive Summary



Canada stands at a pivotal moment

We possess the natural and industrial advantages to lead the global permanent carbon removal industry, but we are at risk of losing this opportunity to faster-moving competitors.

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This blueprint sets out a 25-year plan for Canada to help remove more than one billion tonnes of CO₂ globally by 2050. This strategy turns carbon removal from niche pilots into a backbone industry that drives industrial revitalization, productivity, and exports. Building this industry will be comparable to developing Canada's oil sands sector, but operating in reverse, and requires the same bold investment and strategic leadership.



The Trillion Dollar Opportunity

More than just a climate imperative, carbon removal is an industrial necessity. It complements, not replaces, emissions cuts by cleaning up existing carbon dioxide (CO₂) built up in our atmosphere over 150 years of industrialization. Amid increasingly contested climate politics, Canada must focus on the economic reality: this sector will strengthen competitiveness, attract foreign investment, and build strategic industrial capabilities.

Canada has decisive advantages to scale this suite of technologies: over 80% clean electricity to power new facilities, geological storage capacity equal to more than ten times the world's annual CO₂ emissions, proven industrial expertise, trusted research institutions, and a track record of exporting climate solutions globally. We are uniquely positioned to be first movers in a global market set to triple by 2035 and reach \$1 trillion by 2050, but only if we act now.¹

The Billion Tonne Blueprint

By 2050, we envision a Canada that **proves, scales, and exports** the world's most credible permanent carbon removal solutions – catalyzing over one billion tonnes of global removals to restore a stable climate and ensure prosperity for generations to come. Carbon Removal Canada is helping to realize this vision through three key levers:

- 
Building trust by educating key decision-makers on carbon removal and how it can strengthen the economy and serve the public.
- 
Lowering costs by shaping policies that accelerate deployment and embedding carbon removal into major industries using existing capital and infrastructure.
- 
Creating demand from reliable, long-term buyers in the public and private sectors through carbon markets and new funding models.

The blueprint for developing the carbon removal industry unfolds in five phases: from establishing a strategy and initial demand (**today through 2030**), to beginning commercial deployment and securing international purchasing agreements (**2030-2035**), then becoming a global proving ground (**2035-2040**), and exporting innovations globally (**2040-2050**). By 2050, carbon removal can be a cornerstone of Canada's economy, enabling Canada to contribute over one billion tonnes of global removals annually.

“More than just a climate imperative, carbon removal is an industrial necessity”

The Time is Now






Canada can shape, not just participate in, a trillion-dollar global market. However, the window to lead is closing and we are at risk of watching other countries build this industry instead of us.

To capture this opportunity, we must prioritize building projects at home, developing the innovations and execution capabilities our companies can eventually export. Investment is highly mobile, and investors are looking for the best jurisdictions to build. We must ensure they choose Canada. This requires policy laser-focused on speeding deployment and reducing costs. We must act now, because the world needs bold Canadian leadership, and Canadian exports, to meet global climate goals.

What is a Tonne of CO₂?

To put the scale of carbon removal in perspective, the average person in Canada produces **15 tonnes per year**:

<p>One car: ~5 tonnes per year</p> 					
<p>One home heated with natural gas: ~5 tonnes per year</p> 					
<p>One transatlantic round trip: ~2 tonnes per person</p> 					

By 2050, Canada plans to enable the removal of 1 billion tonnes of CO₂ annually, equivalent to taking roughly 200 million cars off the road. That's eight times more than the number of cars in Canada.

What is carbon removal?



Carbon dioxide removal from the atmosphere (carbon removal) is an essential tool for reaching net-zero, and must be used alongside — not in place of — reducing emissions across the global economy.

Imagine our atmosphere is a bathtub and CO₂ emissions from human-caused activities are the water flowing into it from the tap. The higher the water level rises in the tub, the more severe the impacts of climate change are. Current emissions reduction efforts are trying to turn down the tap, but something must be done to address the water that is already in the tub. Carbon removal can act as a drain for the bathtub, removing legacy CO₂ from the atmosphere and addressing emissions from hard-to-abate sectors.

Carbon removal delivers tangible benefits today:

- Accelerating critical mineral development
- Improving agricultural productivity
- Creating rural employment
- Stabilizing fisheries
- Transforming environmental liabilities like mine tailings into environmental assets
- Harvesting waste biomass to mitigate forest fires

Canada has begun to build a permanent carbon removal industry that will drive growth, strengthen competitiveness, and lead the global clean economy.

The 2030s will require heavy lifting, but today's decisions determine whether Canada leads or follows. This blueprint lays out a practical but ambitious pathway to economic leadership rooted in Canadian strengths.

Carbon Removal Canada is working to turn carbon removal from a niche sector into a backbone industry delivering jobs, investment, and exports. We take a realistic view of climate headwinds, trade-offs, and international competition, but believe Canada can be a global hub for high-integrity carbon removal in the years ahead.

The global market is moving quickly. By 2035, the clean technology sector is expected to triple in size,² and Canada's Climate Competitiveness Strategy recognizes that low-carbon products and services

represent "one of the greatest opportunities of this century."³ Even as U.S. climate policy faces reversals, carbon removal remains essential globally. Canada therefore needs a solution that transcends political cycles by delivering economic value and clear co-benefits. International investment through Paris Agreement frameworks can solidify Canada's domestic leadership. This allows global buyers to finance our carbon removal initiatives and accelerate their expansion, while we prioritize demonstrating these technologies' success on Canadian soil.

Right now, the field is wide open. The U.S. has bold incentives on paper but faces political backsliding and permitting gridlock. Europe leads on regulatory design but will ultimately be a net importer of carbon removal due to ambitious emissions targets but constrained resources for carbon removal development. Emerging markets show promise but face high capital costs, opaque standards and regulations, and policy uncertainty. Canada can fill this leadership vacuum by offering the regulatory clarity and industrial scale that other jurisdictions are less equipped to deliver.



Transforming mine waste into a climate solution

Vast mountains of asbestos mine waste near communities in Québec are being turned into an environmental and economic asset. A pioneering project, designed in close partnership with local leadership, is safely reacting these legacy tailings with atmospheric CO₂. This innovative process permanently neutralizes the asbestos while storing carbon, creating new revenue for the community and turning a harmful liability into a source of value.





Canada has the unique ingredients for market leadership already in place:



Clean power at scale: With over 80% non-emitting electricity, our clean baseload power allows carbon removal technologies to operate cost-effectively without adding emissions. Budget 2025's clean electricity investment tax credit further boosts this advantage.



Vast geological storage: We hold 389 billion tonnes of CO₂ storage potential — 600 times our annual emissions — with world-class reservoirs and infrastructure in Western Canada ready to use.⁴



Industrial and technical capability: Decades of experience in oil and gas, mining, and biomass supply chains translate directly to carbon removal operations.⁵ We know subsurface management, materials handling, and industrial-scale operations.



World-class innovation: Canada is a disproportionate leader in carbon removal innovation. Our university research groups rival any in the world, from pioneering work in AI to leading marine carbon removal research in Nova Scotia. Our scientific capabilities and entrepreneurial dynamism give us outsized influence in shaping next-generation solutions.



Trusted institutions and governance: Canadian regulatory frameworks create market confidence. When something is Canadian-verified, it carries weight.



Indigenous partnership models: Nearly 20% of Canada's clean electricity infrastructure already involves Indigenous leadership or partnership.⁶ These models advance equity while building project legitimacy and reducing risk.



Proven track record exporting climate solutions: Canada has long exported technologies and policies that shape global markets, from CANDU reactors operating in seven countries to carbon pricing frameworks now embedded in international trade and compliance systems.⁷



Restoring our rivers

In Québec, a new project is reviving historically acidic rivers that feed into the St. Lawrence. Using a restoration process proven over decades to combat acid rain, crushed limestone is carefully added to the water. This not only restores fish habitats but also enhances the river's natural ability to draw down and store carbon from the atmosphere. The results are highly measurable, turning vital waterways into powerful and verifiable climate solutions.

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Our Vision

<p>By 2050, we envision a Canada that proves, scales, and exports the world’s most credible permanent carbon removal solutions — catalyzing over one billion tonnes of global removals to restore a stable climate and ensure prosperity for generations to come.</p> <p>This is both a climate necessity and a \$78 billion per year economic opportunity. Modelling suggests that scaling carbon removal could create and support over 300,000 jobs, boosting productivity across key sectors while accelerating rural development, opening new pathways for heavy industry, and positioning Canada as a trusted exporter of global climate solutions.</p>							



The future of farming

Across Southern Ontario, agricultural fields are getting a boost from a new soil amendment: crushed wollastonite. This naturally abundant mineral is replacing traditional lime, helping farmers increase crop yields while making their soils more resilient. By enhancing the soil’s ability to capture atmospheric CO₂, this practice also creates a new revenue stream for farmers through the sale of high-quality, permanent carbon removal credits.

Leveraging Canadian credibility to remove over one billion tonnes:

	<p>Projects at home</p> <p>Megatonne projects deployed across Canada</p>		<p>Projects abroad</p> <p>Canadian companies building and operating projects internationally</p>		<p>Solutions exported</p> <p>Canadian innovations core to projects worldwide</p>		
	↓		↓		↓		
<p>1 Billion+ Tonnes of Global Removals</p>							
	 <p>05</p>		 <p>06</p>		 <p>07</p>		
	<p>THINK</p> <p>Deep Sky</p> <p>Building a DAC innovation centre and expanding project development across multiple provinces.</p>		<p>THINK</p> <p>CO280</p> <p>Integrating BiCRS into pulp and paper mills across the southeastern United States.</p>		<p>THINK</p> <p>Svante & Carbon Engineering</p> <p>Developing technology used by Climeworks and 1PointFive respectively.</p>		

The seven dimensions for scaling carbon removal



Scale

Build enough projects to remove 1 billion tonnes of CO₂ a year by 2050, starting with 35 million tonnes by 2035 using a mix of technologies. From there, Canada should lead on 1–2 priority solutions and build a strong international presence in several others.



Cost

Bring the cost of carbon removal down so it is affordable and competitive in Canadian and international carbon markets. Reduce costs by building projects, learning from them, and improving technology so removal becomes a practical way for industries to deal with their toughest emissions.






	<h2>Innovation</h2> <p>Lead the next wave of carbon removal solutions by closing the commercial and technical gaps that matter most in Canada. By focusing RD&D within dedicated test sites and research centers, we can more rapidly iterate, improve, and scale the most promising solutions.</p>						
	<h2>Standards</h2> <p>Set clear, trusted rules so every tonne of carbon removed is real, permanent, and easy to verify. Build or adopt high-quality standards and modern MRV tools that line up with major trading partners so Canadian credits are simple to trade.</p>						
	<h2>Markets</h2> <p>Build strong carbon markets in Canada so projects can sell reliable credits that investors and buyers trust. Put in place simple systems for tracking and trading credits at home, then start exporting them and helping Canadian firms become key players in a global market.</p>						
	<h2>Policy</h2> <p>Create clear, stable policies that attract investment and offer long-term certainty. Use financial incentives and regulations to get early projects built and integrated into key industries, then phase out extra support as markets mature and carbon removal becomes a competitive option for complying with carbon pollution regulations.</p>						
	<h2>Community Benefit</h2> <p>Ensure carbon removal initiatives deliver measurable community advantages, prioritizing fair compensation, Indigenous leadership, and sustainable job creation. Strategic investments in education and training will ensure that Canadians from all backgrounds are equipped to participate in the carbon removal industry.</p>						

The Billion Tonne Blueprint

Canada's path from early pilots to a backbone industry requires deliberate, staged progress.








Each milestone reflects progress across the seven dimensions and the key levers needed to advance them — informed by research and consultations with leaders across academia, civil society, Indigenous Nations, industry, and government. These are not rigid targets or forecasts, but directional indicators to signal we're on the right track towards our 2050 vision for Canada.

Canada's Carbon Removal Journey

				2050 Global impact	
			2040 Trusted export		
		2035 Global hub status			
	2030 Catalyzing removals				
2025 Laying the foundation					

WHAT'S HAPPENING

Canada's journey has begun in earnest, having launched a federal procurement program for carbon removal services, implemented tax credits for DAC and BECCS, and seen more than 75 companies enter the sector. Awareness is growing but significant gaps remain: voluntary markets are fragile, standards are in their infancy, policies are fragmented, and public understanding is limited. Interest is growing, but more ambition is needed. Carbon Removal Canada is working to convert this early momentum into viable projects to unlock Canada's potential.

-  **Scale:** Early projects and companies are emerging and in development, but activity remains limited and largely confined to pilot projects
-  **Cost:** Carbon removal remains many times more expensive than the industrial carbon price, with costs varying widely across methods
-  **Innovation:** Early R&D underway; test sites beginning to emerge (e.g. marine carbon removal in Nova Scotia)
-  **Standards:** DAC protocol is in development; limited progress toward harmonized standards
-  **Markets:** Voluntary buyers active, but fragmented; patchwork of protocols included in compliance programs
-  **Policy:** Federal procurement program launched; policies mostly DAC-focused within CCUS framework
-  **Community Benefit:** Public awareness remains low, early Indigenous engagement underway

WHAT THE SECTOR NEEDS TO DO (2025-2030):

Build trust: Most Canadians and policymakers don't yet understand carbon removal. We need to educate federal and provincial leaders, industry, and communities about what it is, why it matters, and how it works. This education builds the support needed for early projects to move forward.

Lower costs: Policies need to support projects across different technologies to learn what works and how to drive costs down. Policies should reduce risk for demonstration projects and encourage learning-by-doing so carbon removal becomes more affordable.

Create demand: Cultivate early buyers for carbon removal credits and create revenue opportunities that attract investment and make projects viable. Establish purchase programs and fit carbon removal into existing climate policy frameworks so early buyers have the confidence to grow their purchases over time.

Catalyzing Permanent Carbon Removal

2030

WHAT'S HAPPENING

Canada has moved from pilot projects to commercial-scale deployment. One megatonne-scale project operates, another is embedded in an industrial site, and Canada has exported its first credits under the Paris Agreement. The industry is supported by a coherent strategy, harmonized policies and standards, leadership, and a permanent carbon removal fund capitalized by compliance markets and voluntary actors — facilitated by Carbon Removal Canada. Public support is growing, as is direct Indigenous involvement in projects.



Scale: Carbon removal projects moving beyond pilots, >5 million tonnes per year in development within Canada; one major project integrated into industrial operation



Cost: Some methods are starting to see meaningful cost reduction (biochar on the lower end of cost range, DAC on the higher end)



Innovation: Demonstration hubs for 2-3 methods established; Canadian universities are actively addressing key technology gaps



Standards: First standards compatible with trading partners developed, following the EU's lead in developing a carbon removal standards regime



Markets: First major Paris Agreement-compatible transaction with trading partner; carbon accounting methods have evolved to better reflect the value of permanent carbon removal



Policy: New National Carbon Removal Strategy provides policy coherence; permanent carbon removal purchase fund established; carbon removal is beginning to see revenues from offset sales in compliance markets; regulation in place for carbon removal activities across relevant jurisdictions



Community Benefit: Indigenous engagement frameworks and partnerships active; significantly increased public support for carbon removal

WHAT THE SECTOR NEEDS TO DO (2030-2035):

Build trust: Develop verification standards aligned with major trading partners (EU, UK, US, Japan) to establish Canada's reputation for high-quality carbon removal. Expand partnerships with Indigenous communities and training programs to show this work includes everyone.

Lower costs: Shift from supporting everything to focusing on what's working. Narrow focus to 2-3 carbon removal pathways showing real commercial promise in Canada. Begin building the second- and third-of-a-kind deployments to progress along cost curves. Policies should help scale up projects so iteration drives costs down. Make it easier to integrate carbon removal into existing industries through shared infrastructure and costs.

Create demand: Update industrial carbon pricing to create reliable, long-term buyers. Grow the permanent procurement fund and make carbon removal the go-to option for companies that need offsets. Complete first major credit sales to international partners.



Powering communities with carbon-negative energy

A direct air capture company is turning energy production in Western Canada into a carbon-negative enterprise. By building facilities that capture CO₂ directly from the air, the project is removing the last mile of emissions from the energy grid. This initiative is creating new, skilled jobs for energy workers, revitalizing rural economies and demonstrating how the transition to clean energy can also include cleaning up the past.

Canada as a Global Hub for Carbon Removal

2035

WHAT'S HAPPENING

Canada is now the proving ground for high-integrity carbon removal. Dozens of major projects are operating, standards are interoperable with trading partners, and Canadian institutions are training a carbon removing workforce and shaping the next generation of solutions. Canada is leading the world in 2-3 specific methods and new CO₂ transport and storage infrastructure is being developed. Support for the sector is financed largely by a robust compliance market, reducing the need to subsidize projects.



Scale: Canada has moved into large-scale deployment; ~35 million tonnes in development; 2-3 methods pulling ahead



Cost: The most advanced projects are approaching cost levels below prevailing carbon prices, making carbon removal a competitive option for complying with carbon pollution regulations, while average costs continue to fall as deployment expands



Innovation: Major gaps in emerging carbon removal innovations have been addressed with Canadian universities at the forefront; National Carbon Removal Research Centre established



Standards: Canadian standards meet global “high bar”; Canada is active in global standard-setting



Markets: Canadian financial institutions lead the Americas in financing and trading credits; multiple international transactions completed



Policy: Supply-side subsidies tapering; policies now incentivize embedding carbon removal in industrial activities; removal is now the primary offset option in compliance markets, driving significant demand



Community Benefit: Public support continues to increase; demonstrable Indigenous leadership in sector, workforce training programs established at major post-secondary institutions

WHAT THE SECTOR NEEDS TO DO (2035-2040):

Build trust: Use Canada’s reputation for quality to build partnerships with key trading partners. Position Canadian methods and governance as models others want to follow. Keep verification transparent and rigorous to maintain buyer confidence.

Lower costs: Canadian companies with proven technologies need to keep driving costs down to make carbon removal a competitive option within carbon pricing systems. Focus on economies of scale and learning by doing to stay ahead.

Create demand: A major opportunity is opening as European and Asian climate programs start buying large volumes of carbon removal credits from abroad. Canadian firms can compete effectively in this market through technology sales, expertise, and credits. Establish formal trading relationships with key partners to make this easier.

Cleaning our coasts and the climate

Along Canada's coasts, wastewater treatment and power generation plants are being retrofitted to improve ocean health and fight climate change. Alkaline minerals from nearby mines are added to the plant's existing outflow, improving local water quality, reducing ocean acidity, and accelerating the coastal ocean's ability to absorb CO₂ from the atmosphere. Innovators want to take this model further, exploring deep ocean methods to further scale this powerful marine carbon removal solution.



Carbon Removal as a Trusted Canadian Export

2040

WHAT'S HAPPENING

Canada's early advantages are beginning to level off, and other countries are catching up. But Canadian firms are no longer just domestic leaders — they are global players, developing projects abroad at the same scale they are building at home. Entirely new, high potential methods are being commercialized at scale, and Canadians are helping shape how billion tonne-scale deployment will unfold in the coming decades.



Scale: Carbon removal is a major Canadian industry (~100 million tonnes in development at home); Canadian firms operating large projects in new markets and Canadian technology is core to major deployments abroad



Cost: Project costs have fallen substantially, making carbon removal a highly competitive option within strong climate policy frameworks



Innovation: Canadian companies leading commercialization of next-gen carbon removal solutions developed at research centre and Canadian universities



Standards: Canadian standards have made our carbon removal credits the most trusted and tradeable in the world



Markets: Canadian financial institutions anchor credit transactions in a mature, truly global carbon market; Canada establishes close carbon trading agreements with key trading partners



Policy: Carbon removal is fully integrated into Canadian industrial and climate policy; Canadian policies are held up as an exemplar to be adopted by other countries



Community Benefit: Canadian standards for community consent, Indigenous leadership, and equitable benefit-sharing are recognized and sought after as international best practice

WHAT THE SECTOR NEEDS TO DO (2040-2050):

Build trust: Position Canada as essential to global carbon removal through leadership in international planning efforts. Continue demonstrating lasting credibility through transparency, Indigenous leadership, and fair partnerships that other countries want to copy.

Lower costs: Use everything we've built (policies, markets, infrastructure) to continue to support cost reductions needed across all major approaches. Maximize carbon removal models that leverage mass production in order to capitalize on cost reduction opportunities.

Create demand: Secure large portions of global climate finance for carbon removal. Position Canadian expertise, technology, and credits as necessary for the world to reach net-zero. Embed Canadian carbon removal deeply into global trade, climate finance, and industrial supply chains.

Delivering Outsized Global Impact

2050

WHAT'S HAPPENING

Carbon removal is no longer an emerging sector - but a cornerstone of the global economy and one of the world's great collective climate interventions, with Canada as a leading actor. Hundreds of millions of tonnes are removed annually in Canada alone, and Canadian firms, innovations, and policies have enabled an equal amount in global removals. Canada is home to a pathway-specific mega-cluster of carbon removal projects which will be leveraged to help the world make the final push to go net-negative.



Scale: Canada has become a major global centre for carbon removal (~500 Mt) with a mega-cluster of projects based on 1 pathway



Cost: Carbon removal costs have fallen to the point where they are the most affordable and effective way to comply with carbon pollution regulations.



Innovation: Canada hosts 2-3 pathway-specific global research headquarters leading frontier innovation



Standards: Canada leads in automated, open-source MRV tech that is integrated into project design



Markets: Canadian financial firms have contributed to tightly embedding carbon removal credits global trade, climate finance, and industrial supply chains



Policy: Carbon removal is treated as core national infrastructure, ensuring durability across Canadian industrial, fiscal, and trade policy



Community Benefit: Canada's transparent and equitable approach to carbon removal has become a signature competitive advantage globally. The sector has created hundreds of thousands of skilled jobs and is celebrated by the public as an essential Canadian industry.



09

Here's How We Lead



Canada is uniquely positioned to lead this emerging trillion-dollar market — not just participate in it.

The foundation is in place; what's missing now is decisive action.

OUR ASK IS SIMPLE

If you shape policy, deploy capital, buy credits, develop projects, or lead communities, commit to one concrete action this quarter that advances a real carbon removal project in Canada. Expand a procurement program, approve a demonstration permit, or allocate funding to a project. Commit catalytic capital or guarantees to first-of-a-kind deployments. Sign a multi-year offtake agreement or join a pooled purchasing initiative. Carbon Removal Canada will work alongside you to turn these individual decisions into a coordinated push, aligning policy, markets, and industry so today's projects can become the nucleus of a globally competitive sector.

If we take the right steps now, Canada can secure its place as the world's most trusted source of carbon removal solutions, showing that climate leadership and economic prosperity can reinforce each other. The opportunity is clear, and the time to act is now.

“The opportunity is clear, and the time to act is now”

NA'IM MERCHANT, EXECUTIVE DIRECTOR OF CARBON REMOVAL CANADA



Carbon Removal Canada's Role

Founded in 2023, [Carbon Removal Canada](#) is an independent non-profit accelerating the responsible scale-up of permanent carbon removal in Canada. We advocate for research-backed policies, shape Canada's carbon removal market, and connect the right people with the right information, serving as both architect and builder of Canada's emerging carbon removal sector.

In just two years, we have helped move carbon removal from concept to concrete commitments.

Key milestones include:

- Securing federal recognition of permanent removal in developing climate strategies
- Shaping the first-ever major party platform commitment to carbon removal
- Catalyzing Canada's first federal carbon removal procurement program
- Convening more than 300 stakeholders, mapping over 70 companies, and publishing more than 15 foundational resources to guide decision-makers

Looking ahead, Carbon Removal Canada will focus on three strategic objectives:

- ✓ **Building Trust** by equipping leaders with clear, credible information on how carbon removal benefits the public
- 👉 **Lowering Costs** by advocating for policies that improve commercial viability and drive economies of scale
- 📈 **Creating Demand** by helping establish reliable public and private markets for high-integrity carbon removal.

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The views expressed here are those of Carbon Removal Canada and do not necessarily reflect those of the interviewees.

Carbon Removal Canada

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APPENDIX A | Focusing our efforts over 25 years

	2025-2035: PROVING SCALE AT HOME	2035-2050: LEADING SCALE GLOBALLY
Scale	Use tech-neutral approach to remove 35 Mt by 2035, proving viability in meeting climate targets	Lead in scaling 1-2 carbon removal methods; expand Canadian presence internationally on 2-4 remaining methods
Cost	Reduce average cost through accelerated deployment to secure carbon removal's position as Canada's primary offset solution	Significant reduction in cost, enabling global gigatonne deployment
Innovation	Closing critical RD&D gaps for targeted carbon removal technologies that have high potential in Canada	Create dedicated RD&D centre and research hubs focused on the next generation of carbon removal technologies
Standards	Develop and implement rigorous, globally-compatible standards aligned with EU/UK/US/JP for all carbon removal methods	Advance and embed MRV technologies to eliminate remaining barriers to verified, high-integrity carbon removal
Markets	Establish mature carbon credit accounting and trading platforms in Canada; begin international credit exports	Position Canadian firms for leading role in a mature, integrated, global carbon credit trading system
Policy	Deploy targeted subsidies and build regulatory capacity to support carbon removal economics and scale technologies; begin incentivizing carbon removal integration in key industries	Begin phase out of subsidies as costs decline and compliance markets mature; fully integrate carbon removal in industrial policy; export policy expertise globally
Community Benefit	Increase public awareness while establishing Indigenous-led project ownership models	Develop inclusive workforce through training programs and demonstrate equitable participation in carbon removal economy

Endnotes

- 1 McKinsey Sustainability, 2023
- 2 Ministers Dabrusin and Hodgson outline Budget 2025's new Climate Competitiveness Strategy. <https://www.canada.ca/en/environment-climate-change/news/2025/11/ministers-dabrusin-and-hodgson-outline-budget-2025s-new-climate-competitiveness-strategy.html>
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- 4 Canada has a massive carbon capture and storage opportunity. <https://cleanprosperity.ca/canada-has-a-massive-carbon-capture-and-storage-opportunity/>
- 5 Industry and Supply Chain Readiness for Direct Air Capture in Canada. <https://carbonremoval.ca/wp-content/uploads/2025/10/Industry-and-Supply-Chain-Readiness-for-Direct-Air-Capture-in-Canada.pdf>
- 6 The Government of Canada is supporting 13 Indigenous-led clean energy projects. <https://www.canada.ca/en/environment-climate-change/news/2025/07/the-government-of-canada-is-supporting-13-indigenous-led-clean-energy-projects-through-the-low-carbon-economy-funds-indigenous-leadership-fund.html>
- 7 Carbon pricing as an asset for Canadian exports to Europe. https://www.international.gc.ca/country_news-pays_nouvelles/2024-06-13-france.aspx?lang=eng

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A small, white, downward-pointing arrow graphic located at the bottom of the word "canada".

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