

# carbonNEXT

## 2023 Resource Directory

TITLE SPONSORS



Prairies Economic  
Development Canada

Développement économique  
Canada pour les Prairies



Scotiabank



### FUNDING SUPPORT

#### GRANT FUNDING, TAX CREDITS & CHALLENGES

Accelerated Growth Services Program (ISED)	Provides one-window access to key federal and provincial programs to assist fast growing companies with scaling needs and entering new markets.	Canada
BC Centre for Innovation and Clean Energy	Enables and funds clean energy technology and solution breakthroughs in BC for projects in CCUS, low carbon hydrogen, synthetic fuels and more.	Canada
CanExport Innovation	Provides up to \$75,000 to SMEs to support, develop and pursue collaborative R&D projects with international partners.	Canada
CCUS Investment Tax Credit	A capital investment tax credit for the deployment of direct air capture, point source capture, transport and sequestration infrastructure.	Canada
Clean Growth Hub (ISED)	Provides one-window access to information, resources and advice on federal support programs, funding and other Federal and Provincial programs.	Canada
Emissions Reduction Alberta	Invests in innovative clean technologies and infrastructure to accelerate GHG emission reduction in Alberta by supporting research and pilot projects across the CCUS value chain.	Canada
Foresight	Foresight's Challenge program connects industry with Canada's most innovative climate solution providers by providing a systemized, de-risked, and cost-effective process for industry looking to implement cleantech solutions.	Canada
Investissement Quebec	Offers grants, zero interest loans and investments to Quebec SMEs looking to expand further into new markets.	Canada
NGEN Advanced Manufacturing supercluster	A hub for advanced manufacturing, research and technology that provides services and funding for cleantech pilot projects looking to build unique solutions for Canada's emission challenges.	Canada
NRC - Industrial Research Assistance Program (NRC IRAP)	Provides advice, connections, and funding to help Canadian small to medium sized businesses take innovative ideas to market.	Canada
NRCan Office of Energy Research and Development (OERD)	Invests in R&D and demonstrated solutions to advance commercial viability of CCUS technologies through businesses, academia, non-profits and federal laboratories.	Canada
Scientific Research and Experimental Development Tax Incentive Program (SR&ED)	A federal tax incentive that offers up to 30% reimbursement for eligible R&D expenditures.	Canada
Sustainable Development Technologies Canada (SDTC)	Accelerates the development of globally competitive clean technology solutions through coaching and funding Canadian entrepreneurs.	Canada
Breakthrough Energy	Finances, launches, and scales companies and their solutions that eliminate GHGs through investments, 2-year training fellowships, and other support programs.	USA
Carbon Removal XPRIZE	Funded by Elon Musk, this multi-stage \$100M global competition is open to applicants with scalable solutions for removing carbon from the atmosphere and oceans.	USA
Carbontech Development Initiative	Promotes market transformation, carbon capture and removal science and provides US \$35M per year in seed funding for research, commercialization and acceleration (focused on solutions relevant to NY State).	USA
US Department of Energy - Office of Fossil Energy and Carbon Management	Committed to advancing technologies that minimize the impact of fossil fuels by supporting research, development, and demonstration efforts.	USA
European Commission Innovation Fund	Provides project funding to advance commercial scale cleantech demonstrations.	EU
European Innovation Council Accelerator	Provides guidance, grant funding and equity investments to advance cleantech and also assists with establishing pilot TRL 7-8 start-ups.	EU
European Innovation Council Pathfinder	Provides funding for early stage (TRL 3-5) cleantech and carbontech ventures.	EU
CLIMIT	Annually cycles US\$23M+ into R&D and demonstration grants focused on CCUS, open to international cleantech companies.	Norway



#### LOANS AND INVESTMENTS

Business Development Canada	The bank for entrepreneurs. Offers financing, venture capital, growth and transition capital and consulting services.	Canada
FuturPrenuer	Provides low-interest loans, mentoring and helps start-ups establish themselves through mentoring and shared expertise (for people 18-39 years of age).	Canada
InBC	A \$500M strategic investment fund created by the BC Government for investments in new technologies with a core focus on climate solutions.	Canada
Regional Economic Growth through Innovation (REGI)	A national program delivered by regional development agencies such as PacifiCAN, PrairiesCAN and ACOA which provides loans and grants for projects.	Canada
US Department of Energy Innovation Loan Guarantee Program	A US \$55B+ loan guarantee program dedicated to reducing the cost of capital for first-of-kind deployments of innovative technologies.	USA

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## FUNDING FOR WAGES & INTERNS

EcoCanada	Provides wage funding for new graduates and supports environmental professionals in their end-to-end career growth.	Canada
MITACS Wage Subsidies	Provides wage subsidy funding for graduate students and recent graduates through industry partnerships with universities - Accelerate: Offers \$15,000 for a 4-month research project internship. - Elevate: Up to 2-year research fellowship. - Globalink: Funds research abroad.	Canada
NRC Industrial Research Assistance Program	Provides R&D advice, internship funding and connections to other key services and supporters within the National Research Council Network of facilities and expertise.	Canada
NRCan Science & Technology Internship Program - Green Jobs	Provides funding to eligible Canadian employers to hire, train, and mentor youth in clean technology careers.	Canada
Technation	The Career Ready program supports SMEs, offering up to 50% wage subsidies for work placement positions.	Canada



## ACCELERATORS (COACHING, MENTORS, NETWORKS)

Avatar Innovations	Provides leadership training, industry collaboration/validation, capital investment and Carbon XPRIZE competition-specific support for energy transition solutions.	Canada
carbonNEXT	Canada's carbontech commercialization hub, established by Foresight and Carbon Management Canada to drive development and scaling of Canadian CCUS ventures.	Canada
Creative Destruction Labs - Rockies	A globally-linked seed-stage acceleration program for massively scalable science-based companies with a focus on energy solutions.	Canada
Foresight	Canada's leading cleantech accelerator for transformative solutions from startup to scale.	Canada
MaRS	A Toronto based accelerator for Canadian technology ventures, with bespoke programs for women, BIPOC, carbon mitigation and scaling of solutions.	Canada
Trade Commissioner Service's Canadian Technology Accelerators	Provides international market entry training and delegations to assist Canadian start-ups with investment, consumer understanding and global market expansion.	Canada
Activate.org	Through US National Energy Labs, supports academic spinouts through paid fellowships, training, mentoring, funder support, industry engagement and access to testing facilities.	USA
Carbon to Value Initiative	A partnership between Urban Future Lab, Greentown Labs, and Fraunhofer USA that brings carbontech solutions rapidly to scale through direct industry engagement.	USA
Third Derivative	Accelerator leveraging RMI expertise to build an inclusive, global ecosystem that rapidly finds, funds, and scales climate tech innovation.	USA
ClimAccelerator	A European carbontech accelerator that provides start-ups with access to funding and supports the scaling and commercialization of their innovation.	EU
Techstars Energy	In partnership with Equinor, Techstars is an accelerator that provides support and industry engagement in exchange for equity.	Norway
Catapult Energy Systems	Provides entrepreneurs with technical, commercial and policy expertise that promotes innovation across the entire energy system.	UK
Net Zero Technology Centre	Develop and deploy technologies that reduce emissions by co-investing with industry, supporting clean energy start-ups, collaborating to drive research, and providing clients with insights and foresights.	UK



## EXPORT DEVELOPMENT AND NEW MARKETS

Canadian Trade Commissioner Services	Helps companies navigate international markets while providing funding and support programs for exporters through 160 trade offices around the world.	Canada
European-Canadian Centre for Innovation and Research	Facilitates cooperation in technology development and deployment internationally, including trade missions and funding for joint research partnerships.	Canada
Export Development Canada	Provides domestic financing and reduces the financial risk associated with selling goods or services outside of the country.	Canada



## NGO - CCUS NETWORKS, RESEARCH AND ADVOCACY

CCS Knowledge Centre	The Centre advances the understanding and use of CCS as a means of managing GHG emissions with focus on large-scale commercial deployment.	Canada
AirMiners	Responsible for leading a network of stakeholders looking to advance carbon removal technologies, policy and projects with acceleration in early-stage concepts.	USA
Carbon180	Dedicated to bringing carbon removal solutions to gigatonne scale by working across key stakeholders to champion policies and initiatives.	USA
Carbon Business Council	Member-driven trade association for carbon management innovators, representing 80+ companies across six continents with over \$1.5 billion dollars in combined assets.	USA
Global CCS Institute	An international think tank that accelerates CCUS deployment through policy, knowledge sharing and advisory.	Australia/Global
CCUS Projects Networks	Enables knowledge sharing between stakeholders and European regions to inform the developing CCUS value chain.	EU
Decarb Connect	Supports the global industry by hosting events, distributing reports and establishing networks that accelerate decarbonization.	EU
The Norwegian CCS Research Centre	Committed to fast-tracking CCS by working closely with industry and researchers to address barriers in Norway, Europe and around the world.	Norway

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## KEY EVENTS

<b>Cleantech Forum</b>	January 2023	Cleantech's leading annual conference that connects innovators with investors and other key partners around the world.	USA (San Francisco)
<b>GLOBExCHANGE</b>	Feb 27 - March 1 2023 (2024 TBA)	The GLOBE Series convenes the innovators and change makers who are accelerating the clean economy.	Canada (Toronto/Vancouver)
<b>CERAWeek</b>	March 6-10 2023	The leading global thought leadership conference focused on energy, transition and finance. Innovation Agora and other events focused on cleantech.	USA (Houston)
<b>Offshore Technology Conference</b>	May 1-4 2023	OTC welcomes attendees, speakers, and exhibitors from countries around the globe to join the discussions on the revolutionary progress of future offshore projects, to engage in conversations about the world's energy needs and demands.	USA (Houston)
<b>RICE Alliance competition</b>	May 11-13 2023	A competitive accelerator that helps seed-stage start-ups to develop clean energy solutions that achieve technical and commercial milestones.	USA (Houston)
<b>GeoConvention</b>	May 15-17 2023	An annual Canadian convention focused on innovations in the field of geoscience.	Canada
<b>Global Energy Show</b>	June 13-15 2023	An annual global oil and gas showcase that brings participants from across North America, Europe, and the Middle East with a growing emphasis on CCUS.	Canada
<b>Trondheim Carbon Capture &amp; Storage Conference Forum</b>	June 19-21 2023	A global conference focused on CCS activity in Europe.	Norway
<b>Collision</b>	June 26-29 2023	Among the world's largest tech conferences, Collision is focused on supporting entrepreneurs through the Alpha program.	Canada (Toronto)
<b>CCUS Technology Expo</b>	June 28-29 2023	Bringing together business leaders, regulators and researchers in order to advance CCUS projects and provide emission reduction solutions.	USA (Houston)
<b>Carbon Capture Canada Conference</b>	September 12-14 2023	An annual pan-Canadian CCUS conference in Edmonton, Alberta, showcasing innovation and project development through a strategic conference and exhibition.	Canada
<b>New York Climate Week</b>	September 17-24 2023	An international annual conference that brings together leaders from government, industry and the climate community.	USA
<b>World Petroleum Congress</b>	September 17-21 2023	The Global oil and gas sector summit occurs once every three years with 5,000+ delegates from 100+ countries. The Calgary summit in 2023 is focused on transition.	Global
<b>Clean50</b>	TBA / October 2023	An annual Summit held in Toronto, where honourees engage in a series of intense discussions throughout a packed day, designed to facilitate and accelerate meaningful collaborations going forward. Apply by July 1.	Canada
<b>Foresight50</b>	November 8-9 2023	An annual event hosted by Foresight Cleantech Accelerator Centre, recognizing Canada's 50 most investable cleantech ventures from coast to coast who are moving the needle to net zero. Apply / nominate by late September.	Canada
<b>IEAGHG-T</b>	October 20-24 2024	An annual technical conference convened through the International Energy Agency with leading government and industry partners across OECD. 2024's conference will be in Calgary, Canada	Variable



## TESTING AND VALIDATION FACILITIES & EXPERTISE

<b>Canadian CCUS Research &amp; Technology Network</b>	Concierge to connect innovators and industry to national network of Canadian organizations* providing expertise, facilities and equipment to demonstrate, scale and validate CCUS technology.	Canada
<b>Carbon Management Canada BC Research Facility</b>	Provides a flue gas simulator and technical expertise to move proof on concept to pilot-scale demonstration.	Canada
<b>Carbon Management Canada Newell Country Facility*</b>	A shallow injection facility with expertise and state-of-the-art equipment used to de-risk, validate and scale-up measurement and monitoring technologies for safe and efficient carbon storage solutions.	Canada
<b>Clean Energy Technologies Research Institute (CETRI) - University of Regina</b>	A CO2 capture test facility dedicated to researching capture and blue hydrogen technologies with a focus on solvents.	Canada
<b>InnoTech Alberta*</b>	Dedicated to de-risking capture, conversion and hydrogen technologies at their Alberta Carbon Conversion Technology Centre and High-Temperature Processing Lab.	Canada
<b>National Research Council - Advanced Materials Research Facility*</b>	Supports and undertakes foundational R&D on new materials and chemical feedstocks, to develop, scale up and de-risk/demonstrate their applications.	Canada
<b>NRCan CanmetENERGY Devon*</b>	Utilizes process modeling, simulation, and optimization to analyze energy usage, assist in reducing GHGs and leads innovation for energy resource development.	Canada
<b>NRCan CanmetENERGY Ottawa*</b>	Provides CCUS programs aimed at advancing clean energy technologies, identifying competitive costs and improving the accessible capacity in existing reservoirs for new potential CO2 storage sites in Canada.	Canada
<b>Ocean Networks Canada - University of Victoria</b>	An ocean observation organization with an extensive offshore monitoring network and the capability to validate ocean alkalinity enhancement and carbon removal assays.	Canada
<b>Petroleum Technology Research Centre (PTRC)*</b>	Facilitates research, development and demonstration using the Aquistore deep geologic CO2 storage test site to derisk and validate MMV technologies.	Canada
<b>Saskatchewan Research Council (SRC)</b>	Provides applied R&D, demonstration and assists in technology commercialization by testing and validating emissions technologies for low and high-volume sources, from fugitive to process venting.	Canada
<b>National Carbon Capture Testing Facility (Alabama)</b>	Primary US CCUS test facility that provides realistic industrial operating conditions to advance GHG reduction technologies. Focuses include low concentration CO2 capture, CO2 conversion and direct air capture.	USA
<b>Wyoming Integrated Test Centre</b>	Enables validation of post-combustion capture, conversion and utilization technologies using coal flue gas.	USA
<b>CO2CRC</b>	Australia's leading CCUS research organization with a direct air capture testbed, geological CO2 injection facility and cutting edge monitoring technologies.	Australia
<b>SINTEF</b>	A leading private laboratory with testing capacity across the CCUS value chain, including assessing capture performance, solvent degradation and utilization.	Norway
<b>Technology Centre Mongstad</b>	The leading facility in Europe for researching and testing CO2 capture and conversion technologies in operating environments for future onshore industrial plant use.	Norway

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