

## CCUS Inspiration trip to Canada 23-29. April 2023 CCUS the Canadian Way, specialized on carbon utilization

### **WHY & WHAT Canada, Vancouver, and Edmonton**

#### **Canada**

Canada is a CCUS technology leader with large scale cutting-edge projects in Saskatchewan, Alberta and British Columbia.

Current major projects include SaskPower's Boundary Dam thermal unit, with a carbon capture capacity of almost one million tonnes per year, plus the Shell Quest plant in Alberta, capturing more than one million tonnes of carbon annually. Also, the Alberta Carbon Trunk Line project, now in full operation, has the capacity to transport 14.6 million tonnes of carbon per year, currently drawn from an oil refinery, fertilizer plant, and other industrial sources, and injected into depleted oil fields deep underground.

With 62% of Canadians aged 25–64 having graduated from tertiary education institutions, Canada ranks as the [most highly educated country in the world](#). Of those graduates, [2.8+ million](#) hold a STEM degree, making Canada a prime destination for tech and science related industries. The availability of top-calibre engineers and scientists here, has been evidenced by Canada ranking [4th](#) globally for scientific publications. The [Clean Growth Hub](#) is a whole-of-government focal point for clean technology focused on supporting companies and projects across Canada, coordinating federal programs and tracking results of federal investments in clean technology. Its team of experts provide advice to clean technology producers and users by helping them identify and understand the programs and services most relevant to their needs.

The [Accelerated Capital Cost Allowance \(ACCA\)](#) allows businesses to immediately write off the cost of specified clean energy equipment as well as machinery and equipment used for the manufacturing and processing of goods.

The [Scientific Research and Experimental Development \(SR&ED\)](#) Program provides income-tax credits and refunds for expenditures on eligible R&D activity in Canada.

The [Strategic Innovation Fund \(SIF\)](#) provides funding to support innovation in Canada's leading industries. [Svante](#) recently secured \$25M in funding from SIF to develop technologies that extract carbon dioxide from the atmosphere and use it to produce clean synthetic fuels.

Part of the Strategic Innovation Fund, the [Net Zero Accelerator](#) allocates \$8 billion over 7 years to expedite decarbonization projects with large emitters, scale-up clean technology and accelerate Canada's industrial transformation. Additional support for innovative projects across all sectors includes \$1 billion, on a cash basis, to support private sector investment in cleantech projects.

#### **Edmonton, Alberta**

Alberta is a leader in energy decarbonization, having made strides in reducing the carbon intensity of its electricity grid as well as its oil and gas sector. This is being achieved through a series of targeted reductions, a transition away from coal, the development of world-scale renewable energy projects, and investment in a growing [carbon capture, use and storage](#) (CCUS) industry. The Edmonton region is leading Canada in clean energy technologies because of its strong innovation ecosystem, a commitment to sustainability, a history of industry collaboration and investment, and a large pool of highly skilled talent. Alberta is home to more than 900 cleantech companies that serve a wide variety of industries, including traditional energy, power and utilities,

manufacturing, agriculture, hydrogen, digitalization, carbon capture, utilization and storage and more. A pioneer in CCUS, Alberta is leveraging its expertise and existing facilities and infrastructure to expand into low-carbon [petrochemical products](#), such as blue methanol and blue hydrogen. Alberta is home to two of the world's 18 large-scale projects. The newest, the [Alberta Carbon Trunk Line](#), can sequester 14.6 million tonnes of CO<sub>2</sub> per year. The captured carbon is used to produce blue hydrogen and for enhanced oil recovery.

### **Vancouver, British Columbia**

British Columbia's Roadmap to 2030 commits the province to the decarbonization of B.C.'s industry in line with provincial and sectoral greenhouse gas reduction targets. It includes a commitment to develop a coordinated provincial approach to establishing an appropriate enabling environment to promote the deployment of CCUS across a wide range of industrial sectors. Natural Resources Canada (NRCan) has identified B.C. as a priority province with respect to the use and refinement of its National CCUS Modelling Framework (NCMF) to guide industrial emitters toward viable carbon capture technologies and optimal transportation and sequestration solutions.

British Columbia (B.C.) companies are some of world leaders in Clean Technology, due in large part to our world-class utility programs, access to multiple forms of renewable energy, and strong ties to world markets. With the highest technology sector growth rates in Canada, B.C. is home to Canadian clean technology companies focused in the areas of water and waste management, carbon capture, use and sequestration, clean transportation, energy management, efficiency and storage, fuel cells and hydrogen. Leadership in clean, sustainable energy, with 98% generated from renewable resources, demonstrates that sustainability is a major focus for the people and Government of B.C.

### **More information on Why & What Canada please contact:**

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### **For more information on CCUS Inspiration trip to Canada, April 23-29**

Please visit [CCUS study trip to Canada](#) or contact:

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