



InnoTech Alberta

InnoTech is an Applied Research & Technology Organization serving the needs of industry, entrepreneurs, and the public sector. Their leading-edge expertise and industrial-scale research and demonstration facilities accelerate and de-risk technology development and deployment with a focus on industrial solutions and commercial applications.

AVAILABLE RESOURCES

Alberta Carbon Conversion Technology Centre (ACCTC)

- Provides a testbed, expertise, and natural gas flue as an input to demonstrate pre-commercial CO₂ capture and conversion technologies
- Twenty-five tonnes of CO₂ per day supplied in flue gas from adjacent Shephard Energy Facility
- Five test bays for pre-commercial stage carbontech technologies. Each bay is equipped with Power 25kV/600V, 2MVA; Utility Water – supply pressure 345 kpag; Natural Gas – supply pressure range 207-552 kpag; 400 BBL Waste Water Tank – heat traced, tie in connection 2”, outlet by truck only, Flue Gas (4-6% CO₂) – supply pressure range 30-40 kpag;

Equipment

- Amine CO₂ Capture Unit
- Provides concentrated CO₂ (~98%, up to 6 tonnes/day for the site) available to all 5 Test Bays.
- Fabricated from stainless steel to accommodate novel solvents.
- Modular design and fabrication allows InnoTech to test and evaluate novel processing units that can be integrated into the system
- Existing delta reclaimer allows for experimentation involving recovery and recycling of different solvents

COST OF SERVICES

Cost recovery for use and access of facilities; Fee for service applied research and development

CONTACT INFORMATION

Locations: Edmonton, Calgary, Vegreville, Devon

Email: info@innotechalberta.ca

Website: <https://innotechalberta.ca>

SERVICES

InnoTech offers substantial business knowledge and opportunity due to their wide range of industry experience. This includes experience with establishment and execution of industry consortia and programs, established legal relationship with COSIA Member companies for operations of ACCTC, and contract support for execution of projects within the program

EXPERTISE



Capture

Carbon capture technology research; Feedstock and product analysis; Technical expertise for technology optimization (mechanical, chemical, instrumentation, electrical and power engineering)



Conversion

Support in demonstration of carbon conversion technologies; Material characterization and bench scale testing and optimization; Accelerate and de-risk technology development

TRL

Piloting and demonstration of CCU technologies at TRL 6-8. Lab scale piloting for novel technology development at TRL 3-5.