

Alberta Clean Energy Technology Accelerator (ACETA)



The Alberta Clean Energy Technology Accelerator (ACETA) is a cross institutional hub that is being developed by the City of Edmonton, InnoTech Alberta-Vegreville, the University of Alberta's Future Energy Systems and CanmetEnergy-Devon to create a World-leading clean energy technology accelerator, for piloting and scaling-up of innovations in biomass, municipal solid waste, renewable gas utilisation as well as hydrocarbon processing and upgrading technologies.

Ibrahim Karidio and Ellen Tian

Objectives of ACETA

- To search, evaluate and develop world-class technologies that convert biomass, waste, natural gas and biogas to valuable products, to advance:
 - Development and demonstration of next generation technologies converting biomass, waste biogas and natural gas into biofuel and other marketable products; and
 - Enhancement and optimisation of existing waste and biogas conversion technologies
- To Support successful commercialization of new value-added products from biomass, waste and hydrocarbon based methane
- To attract capital investment for Waste, biogas and biofuel technology deployment and builds a global marketing network

ACETA Key Players

CanmetEnergy Devon

- (1) Hydrocarbon processing and upgrading including renewable fuel upgrading and refining
- (2) Bio crude and biojet fuel technology

City of Edmonton (EWMC)

- (1) Feedstock processing, handling and supply (MSW; Organic Waste, Biomass; Landfill Gas, Syngas, Anaerobic Digestion By-product and End-product; etc.)
- (2) Technology piloting at AERF and R&D
- (3) Analytical lab (microbiology)

Alberta Clean Technology Accelerator

University of Alberta

- (1) Biomass & MSW Technology development (hydrothermal conversion; pyrolysis, reforming)
- (2) Renewable fuel production and testing
- (3) Analytical and computational capabilities
- (4) AD technologies
- (5) Organic waste digestion and energy generation

InnoTech Alberta

- (1) Biomass processing and characterization (pelletization, cryogenic,)
- (2) Biomass low temperature conversion technologies

Contacts

City of Edmonton

Ibrahim Karidio, PhD,
P.Eng., MBA

Senior Thermo Chemical
Engineer

780-423-4766 Office, 780-
884-4266 cell

[ibrahim.karidio@edmonton](mailto:ibrahim.karidio@edmonton.ca)
[.ca](mailto:ibrahim.karidio@edmonton.ca)

University of Alberta

Amit Kumar, PhD, P.Eng.,
Professor

1-780-492-7797

Amit.Kumar@ualberta.ca
[http://www.energysystems](http://www.energysystems.ualberta.ca)
[.ualberta.ca](http://www.energysystems.ualberta.ca)

CanmetEnergy Devon

Dr. Jinwen Chen
Director Downstream
and Renewables
780-987-8763

[Jinwen.chen@Canada.](mailto:Jinwen.chen@Canada.ca)
[ca](mailto:Jinwen.chen@Canada.ca)

InnoTech Alberta

Ataullah Khan
Mohammed, PhD
Senior Researcher
Bio-ThermoChemical
Processing
Technologies
780.632.8206 (Desk);
587.280.3264 (Cell)
[ataullah.mohammed](mailto:ataullah.mohammed@innotechalberta.ca)
[@innotechalberta.ca](mailto:ataullah.mohammed@innotechalberta.ca)