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)

**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

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