

A Biojet Roadmap for Canada – Enabling Policy to Create a Viable Biojet Supply Chain

Fred Ghatala

Partner
Waterfall Group
Vancouver, British Columbia

Biofuel for aviation is a complex space compounded with multiple challenges. Among these are diffuse types of feedstock (e.g. oilseeds, new energy crops, municipal solid waste, forestry, algae, etc.); complex conversion and distribution challenges throughout the supply chain; lack of clear enabling policy structures; established and increasing expectations from the aviation biofuels industry around cost competitiveness and sustainability; and numerous aviation biofuels research projects that lack critical mass or connectivity.

Despite these challenges, biojet offers the best solution for achieving carbon neutral growth from the global aviation sector. Work is underway to grow the biojet market from single demonstration flights towards supply chain development initiatives and commercial availability.

This presentation will concentrate on a project underway to assess the feasibility, cost, and environmental impact of establishing biojet supply chains at key locations in Canada. The project participants are SkyNRG (Netherlands), Waterfall Group (Canada), BioFuelNet (Canada), and Novo Energy (Canada). The main objectives of this study are to (1) characterize regional capacities for biojet production and supply chain development, (2) structure a biojet supply chain partnership model, (3) deploy a pre-commercial supply chain strategy, and (4) determine enabling conditions for biojet supply chain (competitiveness with other jurisdictions and market access). The presentation will mainly focus on the role of enabling policy and market access for creating a biojet industry.