



Biofuel



Project : Feasibility Study for the Implementation of a Biodiesel Plant
Ville St-Catherine (Québec)

Client : Rothsay-Laurenco

Project Description :

Following a successful one-year pilot trial with Biodiesel mixed in ranges from B5 to B20 in a designated fleet of 155 buses from the STM (Société de Transport de Montréal), Rothsay-Laurenco decided to proceed with the engineering and construction of its first industrial scale Biodiesel facility.

Exercising due diligence, the Board of Directors requested that a third party consulting firm be hired beforehand to establish the validity of the technology and the overall feasibility of the scale-up project. Ultragen was thus retained in late 2002 for its strong industrial expertise and local presence, its team of academic and hands-on engineers, and its relevant previous successes in scale-up projects.

Following a detailed review of the literature and numerous hours spent in Rothsay's one (1) million liters per year pilot lab facilities, a feasibility report was issued opening the way for the financing of the first ever industrial Biodiesel facility in Canada. The Rothsay-Laurenco plant, in operation since 2005, currently produces in excess of thirty (35) million liters per year.

Year of realization : 2005
Project Value : 10 M\$

Services offered by Ultragen :

- Conducting an extensive literature review
- Developing and executed experimental testing at the pilot scale
- Selecting optimal property models and integrating them into simulation tools
- Simulating the batch process using advanced computing tools
- Finalizing the processing sequence and industrial process flowsheeting
- Studying the aspects of feedstock properties, energy integration, out of plant specifications and by-products management
- Feasibility Study

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