

Energy Transition Biofuels and Co-Processing



Bantrel delivers **services and facilities** that advance the **sustainability objectives of our clients.**

33

H2 Projects and Hydroprocessing Technologies

Process Subject Matter Experts

Proactive approach to Canadian Clean Fuels Regulation

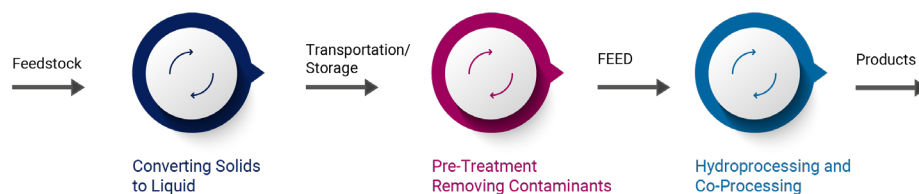
Experience working with Process Technology Licensors

Studies to full EPC projects

Our Energy Transition offering enhances our continued development towards new technological innovations and incremental facility improvements that reduce energy consumption or risk to people and the environment. Our focus areas include clean fuels, carbon capture, emissions management, and water management.

Biofuels

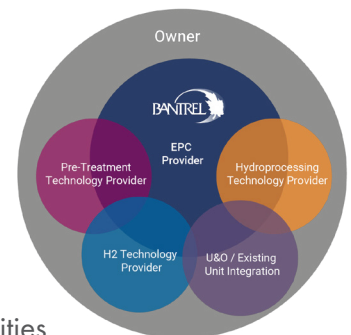
Biofuels provide a pathway to low carbon fuels, one that requires careful contemplation of strategy, feedstock and technology selection. Bantrel's extensive experience collaborating with, evaluating and selecting licensors are key elements in completing the pre-treatment and hydroprocessing stages.



Determining the project strategy and evaluating the impacts of feedstock alternatives are crucial to the overall success of the project. Bantrel provides strong front-end engineering expertise, accurate cost estimating and a history of evaluating and executing revamp projects.

Experience

- Guiding licensor input
- Optimal feedstock selection
- Technology specification, evaluation and selection
- Technology review of licensor designs
- Completion of licensor design package to IFC
- Design integration of utilities and other existing owner facilities
- Energy optimization with existing facilities to reduce carbon intensity
- Application of operational feedback and continuous improvement through lessons learned
- Assessment of operational costs and alternatives of various pre-treatment technologies based on chemical consumption and utility requirements



An integrated end-to-end solutions company.