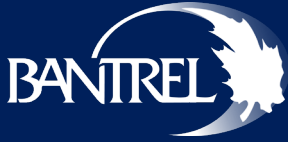


Energy
Mining
Infrastructure
Construction



Energy Transition Electrification

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

Exceptional Power System Modeling and Analysis Capability

Providing EHT solutions for decades in the energy industry

Proactive approach to Canadian Clean Fuels Regulation

Reduced OPEX

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.

Decarbonization by Electrification

Electrification of facilities is a sustainable alternative to decarbonize assets as policies and regulations raise the cost of emissions.

Power System Analysis Using ETAP or SKM

- Load Flow and Short Circuit
- Motor Starting
- Arc Flash
- Protective Relaying and Coordination
- Harmonic Analysis

Potential Avenues for Electrification

- Replace turbines (gas or steam) prime movers with motors
- Using variable frequency drives (VFDs)
- Replace steam tracing with electric heat tracing (EHT)
- Battery storage systems and micro grids
- HV substation with (n-1) design philosophy
- Replace existing plant transport fleet with electric vehicles

Benefits

- Improves operability, reliability and efficiency
- Improves work environments
- More up-time leading to increase in revenue
- Reduced maintenance and OPEX costs
- Reduced vibration
- Less noise
- Less sources of ignition
- Added plant safety

An integrated end-to-end solutions company.