Staff currently with Cole Engineering have played a key role in identifying, evaluating and acquiring new & emerging waste management technologies. This work includes:

New and Emerging Waste Management Technologies for the City of Toronto.
- This Project involved the review of 50 submissions that the City of Toronto received in response to a worldwide Request for Expressions of Interest on new and emerging waste management technologies.

Due Diligence Investigations of Catalytic Depolymerization.
- Due diligence investigations of the KDV process for converting sorted residual solid waste into synthetic light fuel oil (diesel fuel) by low temperature (no air emissions) catalytic depolymerization of long chain organic molecules (e.g., residual plastics) were conducted at a facility in Italy in 2013.

Procurement of Mechanical Waste Processing for York Region.
- Project work included preparation and issuance for the Regional Municipality of York of a Request for Proposals for the management of 70,000 tonnes of residual waste. Proposals were evaluated, due diligence investigations conducted in Europe and a 20-year waste supply agreement was awarded to Dongara to recover recyclable metals, process the combustible waste into fuel pellets and market them to energy customers.

Procurement of Plasma Gasification Facility for Dufferin County.
- A Request for Proposals for a thermal waste treatment facility to be sited at the Dufferin Eco Energy Park was prepared and the responses subsequently evaluated. A Westinghouse plasma gasification technology based facility to be provided by Alter NRG was ultimately selected. Negotiations for the development of this facility based on new technology are presently ongoing.

- These comprehensive technology assessments, conducted to meet the rigorous requirements of the full Ontario EA process, included the identification and assessment of both new & emerging and established residual waste management technologies. Project activities included field trips to Europe to assess various technologies on a first hand basis. Proven technologies were initially selected over New & Emerging Technologies; and mass burn incineration with energy recovery and state of the art emission controls was ultimately selected over mechanical biological treatment.

Halton Region Business Case Analysis of a Potential EFW Facility.

- This Business Case included a comprehensive review and assessment of new and emerging technologies. Following this review conventional incineration with energy recovery was selected as the preferred approach for detailed consideration of the financial, technical, environmental & health implications.

Environment Canada Study on Thermal Treatment of Waste.

- Reports were provided on; existing Canadian large-scale facilities serving municipalities, small-scale facilities for remote communities and responses to frequently asked questions on thermal waste treatment.

Study of Thermal Treatment Technologies for Small and Medium Municipalities.

- This study, prepared for MWIN and the FCM, provided technical and financial information on these disposal technologies for smaller communities.

New emerging technologies: the path to zero-waste