

CHANGE ENERGY SERVICES PROJECTS



Client/location	Fuel	Feasibility Assessment	Gap/Safety /Risk Analysis	EPCM (all or partial)	Documentation and Training	Project Year	Details/key features	Application
2010-2015								
City of Toronto, ON	CNG		◊			2015	Old Eglinton Repair Garage: CNG Upgrade	VR
City of Toronto, ON	CNG		◊			2015	Ellesmere Road Repair Garage: CNG Upgrade	VR
City of Red Deer	CNG	◊	◊	◊	◊	2015	CNG subject matter specialist for bus barn upgrade and CNG fueling station	VR
Oasis c/o CEW, New Zealand	CNG		◊	◊		2105	Canadian Registration Number for parts	VR
Energy Capital, US	CNG	◊				2015	Due diligence study for DNG	BGD
Compression Technology Corporation, ON	CNG		◊	◊	◊	2015	CN Rail NGV Station Expansion	VR
Compression Technology Corporation, ON	CNG		◊	◊	◊	2015	Multimatic NGV Station Relocation	VR
Compression Technology Corporation, ON	CNG		◊	◊	◊	2015	Plastcoat NGV Station Expansion	VR
Igasamex, Mexico	CNG		◊	◊	◊	2015	CNG Bulk Transport	BGD
Enbridge NGV, ON	CNG		◊	◊	◊	2015	Toronto Station #1	VR
Enbridge NGV, ON	CNG		◊	◊	◊	2015	Toronto Station #2	VR
Envoy Energy / Compression Technology Corporation, ON	CNG		◊		◊	2015	ISNetworld and SMS	VR

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Manitoba Hydro c/o CEW, MB	CNG	◊	◊	◊	◊	2015	CNG Mother Station	BGD
Compression Technology Corporation, ON	CNG		◊	◊	◊	2015	Karmax Vehicle Refuelling	VR
Heritage Gas Limited, NS	CNG		◊	◊		2015	Mother Station – Dispensers	BGD
Heritage Gas Limited, NS	CNG		◊	◊		2015	Aerotech Drive Halifax – Mother Station Compressor Upgrade	BGD
Union Gas, Hamilton, ON	CNG	◊	◊	◊	◊	2015	HSR Upper James Rebuild	VR
Gain Clean Fuels, ON	CNG		◊	◊		2015	NGV Station Ontario	VR
Gain Clean Fuels, QC	CNG		◊	◊		2015	CAT NGV Station Quebec	VR
RETTEW, USA	CNG		◊	◊	◊	2014/15	Peer review of plans and drawings – mechanical/electrical, civil, structural, environmental	BGD
Laydon Composites, ON	CNG	◊	◊	◊		2014	NGV Equipment	VR
E.T. Environmental Technologies, ON	CNG		◊	◊		2014	Progressive Waste Brampton	VR
Intragaz, QC	CNG	◊		◊		2014	CNG Bulk Transport Network	BGD
Union Gas, Chatham, ON	CNG	◊				2014	Development of UG NGV infrastructure strategic plan and sales tools	VR
Hydra Energy, BC	H2	◊	◊	◊		2014	H2 Refuelling Stations	VR
Newfoundland Labrador Hydro, NL	CNG		◊	◊	◊	2014	Ramea Phase 2 – Additional Fuel Cell	IE
City of Calgary/IBI Group – Stoney Bus Storage & Maintenance Facility, AB	CNG	◊		◊		2014	CNG Subject Matter Specialists for development of new bus barn	VR
Atlantic Wallboard, ON	CNG	◊	◊	◊	◊	2014	Fully engineered system including mother and daughter stations and interconnecting tube trailer transport	BGD
Ferris Fuel Systems – Manitoulin Transport, ON	CNG		◊			2014	Truck fuelling station	VR

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Ferris Fuel Systems – Simcoe Parts Service, ON	CNG		◊			2014	Truck fuelling station	VR
Bluewater Recycling Association	CNG		◊	◊	◊	2013	Detailed engineering for refuelling a fleet of refuse haulers	VR
Green For Life, Orangeville, Ontario, Canada	CNG		◊	◊	◊	2013	Detailed engineering for refuelling a fleet of refuse haulers	VR
Irving Oil, St. John, New Brunswick, Canada	CNG	◊	◊	◊	◊	2013	Supplying high volume industrial users in eastern Canada and U.S	BGD
Union Gas, Chatham, ON	H2	◊				2013	Technical and business feasibility analysis for Power to Gas/ Wind Farms application	IE
Queen's University, Kingston, ON	H2	◊				2013	Infrastructure Ontario – Fuel cell feasibility study: Hydrogen infrastructure component	IE
ANGI Energy Systems, Wisconsin, US	CNG		◊			2013	Codes & Standards for Compressor design for Canada	VR/BGD
Heritage Gas, Halifax, Nova Scotia, Canada	CNG	◊	◊	◊	◊	2013	Supplying high volume industrial users in Nova Scotia	BGD
Hydra Energy, BC	H2	◊				2013	Waste Hydrogen Recovery Process Design (Peer review)	other
Amalgamated Dairies, Summerside, Prince Edward Island	CNG			◊	◊	2013	Decanting station (Bulk CNG Transport)	BGD
Cummins Western Canada, Vancouver, BC	LNG	◊				2013	Repair Garage Winnipeg, MB	VR
Energy Fundamentals Group, ON	CNG	◊				2013	Asphalt plant fuel conversion feasibility (technical and financial)	BGD
Norfolk Disposal, Waterford, Ontario, Canada	CNG	◊		◊		2012	Feasibility and prelim plan for NGV infrastructure	VR
Northern Graphite, Ottawa, Ontario, Canada	CNG	◊		◊		2012	Feasibility of NGV infrastructure at mining site	VR
Joe Johnston Equipment, Barrie, Ontario, Canada	CNG		◊			2012	Codes & Standards for vehicle maintenance shop	VR
New West Truck Centres, Calgary, Alberta, Canada	CNG		◊			2012	Codes & Standards for vehicle maintenance shop	VR
Paisley Brick and Tile, Paisley, Ontario	CNG			◊		2012	Uses existing mother station at Greenfield Ethanol	BGD
Stahl Peterbilt Inc., Edmonton, Alberta, Canada	LNG		◊			2012	Codes & Standards for truck maintenance shop	BGD

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Stahl Peterbilt Inc., Edmonton, Alberta, Canada	CNG	◇				2012	Repair Garage	VR
Peterbilt – Red Deer, Red Deer, Alberta, Canada	LNG		◇			2012	Codes & Standards for truck maintenance shop	VR
Cummins Western Canada, Vancouver, BC	CNG	◇				2012	Repair Garage. Surrey, BC – technical and financial feasibility	VR
Cummins Power, Bronx, NY, US	CNG		◇			2012	Gap analysis of codes & standards/ safety compliance of repair garage	VR
Irving Oil, St. John, New Brunswick, Canada	LNG	◇				2012	Feasibility of LNG infrastructure for NGVs along highway corridor	VR
Ferus Inc., Calgary, Alberta, Canada	LNG		◇			2011	Codes & Standards for truck maintenance shop	VR
Newfoundland and Labrador Hydro, Holyrood, Newfoundland, Canada	H2			◇		2011/2013	Hydrogen production plant	other
Nature Fresh Farms, Leamington, Ontario, Canada	CNG	◇				2011	Renewable energy CHP plant for greenhouse application	IE
Bloom Centre for Sustainability, Ontario, Canada	CNG	◇				2011	Feasibility of application in Nova Scotia	BGD
Lockerby Transportation, Sudbury, Ontario, Canada	CNG	◇		◇		2011	Feasibility of CNG fleet	VR
Greenfield Ethanol, Chatham, Ontario, Canada	CNG	◇	◇	◇	◇	2012/2013	1 mother station, 1 daughter station	BGD
Island Gas CNG, Port Elgin, New Brunswick, Canada	CNG	◇	◇	◇	◇	2011	Multiple daughter stations for Prince Edward Island customers	BGD
Cummins Eastern Canada, Montreal, Quebec, Canada	CNG/LNG			◇		2011	Modifications to service bays to accommodate CNG and LNG trucks and buses	VR
Natural Resources Canada, ON	LNG	◇				2011	Great Lakes Marine Study to assess feasibility of LNG depots on the Great Lakes	VR
Enbridge Gas Distribution, ON	CNG		◇			2011	Safety Audit of Construction and Service Contractors	other
Calgary Transit, Calgary, Alberta Canada	CNG		◇	◇		2011	Facilities upgrades for CNG buses	VR
Bombardier, BTNA Services, Whitby, Ontario, Canada	CNG		◇			2011	Safety audit of transit operations	VR

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Canadian Natural Gas Vehicle Alliance, ON	CNG	◇				2011	Modelling Sustainable Natural Gas Vehicle End Use Applications	VR
Canadian Natural Gas Vehicle Alliance, ON	LNG	◇				2010	Analysis of LNG Codes and Standards Requirements for LNG Vehicle Fuelling Stations in Canada	VR
Toronto Transit Commission, Toronto, Ontario, Canada	CNG		◇			2010	York Spadina subway and Finch West light rail extensions	other
Purolator, Toronto, Ontario, Canada	H2		◇	◇		2010	Refurbishment of fuelling station	VR
Gaz Métro, Quebec, Canada	LNG			◇		2010	LNG stations on Quebec/Ontario trucking corridor	VR
Notable Projects Pre-2010								
Union Gas, ON	CNG						Network of 62 private and public CNG stations in Union Gas's franchise along 900 km of highway in Ontario serving buses, trucks and cars	VR
GEF Management Corp, Chevy Chase, Maryland, USA	CNG						Evaluation of "Off-Pipeline: Mother-Daughter CNG Delivery Technology	BGD
Hydrogenics Corporation, Ontario, Canada	H2						Compressor modules design for Argentina Wind-H2 project	IE
Alameda Contra Costa Transit, California, USA	H2						Fuelling station for H2 transit buses	VR
The Raymond Corporation, New York, USA	H2						Site selection for forklift fleet	VR
PEI Energy Corporation, PEI, Canada	H2						Wind-H2 Village Project	IE
PEI Energy Corporation, PEI	H2						Hydrogen Process Design for Prince Edward Island Wind/Hydrogen Village (With Hydrogen Taxi Company)	IE
City of Toronto, Ontario, Canada	H2						Fuelling station for H2 ICE shuttle buses	VR
FuelMaker Corporation, Ontario, Canada	CNG						Code Compliance Report for a CNG Testing Facility	VR
Ford Motor Company, Michigan, USA	H2						H2 supply for fuel cell test facility	VR

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Westport Innovations, British Columbia, Canada	LNG						Refuelling station for heavy duty truck fleet	VR
Clean Energy, British Columbia, Canada	CNG						Upgrades at public fuelling station	VR
NextEnergy Center, Michigan, USA	H2						Hydrogen Fuelling Station (Phase 2) of the building out of the "Alternative Fuels Platform"	VR
NextEnergy Center, Michigan, USA	H2						System Design and Safety Analysis for Alternative Fuels Platform (technology development and demonstration facility for multiple gaseous and liquid fuels)	VR
DTE Energy Technologies, Michigan, USA	H2						Demonstration facility - vehicle fuelling and distributed power generation	IE
Hamilton Street Railway, Ontario, Canada	CNG						Needs analysis re station expansion	VR
Westport Innovations, BC	LNG						Refuelling station for heavy duty truck fleet	VR
Toronto Transit Commission (TTC), ON	CNG						Transit bus defuelling/refuelling station at maintenance shop	VR
Hamilton Street Railway, ON	CNG						Turn-key refuelling station for 120 full-size urban buses	VR
Canadian Natural Gas Vehicle Alliance, ON	CNG						Preliminary Station Design and Budget Estimate for Portable CNG Fuelling Station	VR
Gas Metropolitan, QC	LNG						Preliminary Station Design and Budget Estimate for portable LNG Fuelling Station	VR
Newfoundland & Labrador Hydro, NL	H2						Wind, Diesel Hydrogen Project, Storage Optimization & Microgrid Design	IE
Fortum, Stockholm, Sweden	H2						Refuelling for CUTE bus fleet	VR
Sydskraft, Malmo, Sweden	H2						H2 and HCNG fuelling station	VR
U.S. Department of Energy, Nevada, USA	H2						Mining rail demonstration	VR

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Chula Vista Transit, California, USA	H2						Transportable fuelling station	VR
Stuart Energy, Ontario, Canada, Ontario	H2						Prototype dispenser	VR
Green Island Cement, Hong Kong, China	H2						H2 fuelling and distributed gen facility	IE
Ford Motor Company, Arizona, USA	H2						Transportable fuelling of fuel cell cars	VR
Toyota Motor Company, Arizona USA	H2						Hydrogen Fuelling Station for fuel celled cars (With Stuart Energy)	VR
California Fuel Cell Partnership USA	H2						Hydrogen Fuelling Station for fuel cell cars (With Stuart Energy)	VR
Dynetek Industries , AB	H2						Peer Review of Engineering design to certify 450 barg composite cylinders for use in Ontario	other
Enbridge Gas Distribution, ON	CNG						Safety Audit of Construction and Service Contractors	other