



**LANDFILL GAS COLLECTION AND DESTRUCTION
SAMPLE PROJECTS**

Saint-Tite des Caps

Location	Saint-Tite des Caps (Québec)
Country	Canada
Description of Contract/	<u>Recommissioning and operation</u> of landfill gas collection and flaring system
Waste quantity that has been accepted	Unknown
<p>Role in project:</p> <ul style="list-style-type: none"> • Recommissioning of landfill gas collection system • Operation of landfill gas collection and flaring system <p>Total number of wells: 45 LFG extraction wells Blower/flare station capacity: 200 cfm</p>	
Date of contract commencement	2012
Date of contract termination	Ongoing

Saint-Tite-des-Caps Project



Beauport

Location	Beauport (Québec)
Country	Canada
Description of Contract/	<u>Design, supervision of construction and operation of landfill gas collection and flaring systems</u>
Waste quantity that has been accepted	Unknown
<p>Role in project:</p> <ul style="list-style-type: none"> • Detailed engineering of modifications to landfill gas collection system and landfill gas flaring system • System modifications • Operation of landfill gas collection and flaring systems <p>Total number of wells: 12 LFG extraction wells Blower/flare station capacity: 200 cfm</p>	
Date of contract commencement	2012
Date of contract termination	Ongoing

Pierrefonds

Location	Pierrefonds
Country	Canada
Description of Contract/	<u>Design and supervision of construction and operation of landfill gas collection and flaring systems</u>
Waste quantity that has been accepted (2008)	3.5 million tons (Dry material)
<p>Role in project:</p> <ul style="list-style-type: none"> • Detailed design of landfill gas collection system and landfill gas flaring system • Construction of extraction wells and collectors • Construction of blower/flare station • Commissioning of landfill gas collection and flaring systems • Expansion of collection system • Environmental monitoring of landfill gas • Operation of collection system <p>Total number of wells: 12 LFG extraction wells Blower/flare station capacity: 200 cfm</p>	
Date of contract commencement	2007
Date of contract termination	Ongoing

Pierrefonds project



Nejapa

Location	Nejapa (San Salvador)
Country	El Salvador
Description of Contract/	<u>Design, construction</u> of landfill gas collection and flaring systems, <u>operation</u> of landfill gas collection and flaring systems
Waste quantity that has been accepted (2008)	5 million tons (MSW)
<p>Role in project:</p> <ul style="list-style-type: none"> • Detailed design of landfill gas collection system and landfill gas flaring system • Preparation of the administrative and technical specifications for construction • Construction of extraction wells and horizontal collectors • Construction of blower/flare station • Commissioning of landfill gas collection and flaring systems • Operation of landfill gas collection and flaring systems • Full CDM project cycle: validation, CER sales, and selling of the project <p>Total number of wells: 40 LFG extraction wells Blower/flare station capacity: 2500 cfm</p>	
Date of contract commencement	2006
Date of contract termination	2008

Nejapa project



Cook

Location	Gatineau
Country	Canada
Description of Contract/	<u>Design and supervision of construction</u> of landfill gas collection and flaring systems
Waste quantity that has been accepted (2008)	1.2 million tons (MSW), closed landfill
<p>Role in project:</p> <ul style="list-style-type: none"> • Calibration and optimization of existing LFG collection system • Detailed design for extension of LFG collection system • Detailed design for modification of LFG flaring system • Preparation of technical specifications for construction • Supervision of construction of new LFG collection wells (10) and modification of the blower/flare station • Commissioning • Subsurface landfill gas monitoring of fugitive emissions • Carbon credits sales to Canadian Government (2005-2007) • LFG utilization project scheduled as soon as Canadian off-set system up and running <p>Total number of wells: 22 LFG extraction wells Blower/flare station capacity: 1200 cfm</p>	
Date of contract commencement	1999
Date of contract termination	2007

Cook project



Sainte-Sophie

Location	Sainte-Sophie
Country	Canada
Description of Contract/	<u>Design and supervision of construction</u> of landfill gas collection system
Waste quantity that has been accepted (2008)	5 million tons (MSW)
<p>Role in project</p> <ul style="list-style-type: none"> • Calibration and optimization of existing LFG collection system • Detailed design for extension of LFG collection system • Preparation of technical specifications for construction • Supervision of construction of new LFG collection wells (43) • Start-up and calibration of LFG collection system • Environmental monitoring <p>Total number of wells: 71 LFG extraction wells Blower/flare station capacity: 2600 cfm</p>	
Date of contract commencement	1999
Date of contract termination	2001

Lachenaie

Location	Lachenaie
Country	Canada
Description of Contract/	<u>Design and supervision of construction</u> of landfill gas collection system
Waste quantity that has been accepted (2008)	13 million tons (MSW)
<p>Role in project:</p> <ul style="list-style-type: none"> • Detailed design of landfill gas collection system • Preparation of technical specifications for construction • Supervision of construction of extraction wells (131) and horizontal collectors • Commissioning of landfill gas collection system • Construction supervision and commissioning of flaring stations • Annual monitoring of landfill gas subsurface fugitive emission <p>Total number of wells: 131 LFG extraction wells Blower/flare station capacity: 5000 cfm</p>	
Date of contract commencement	1995
Date of contract termination	2000

Lachenaie project



Mediouna

Location	Mediouna (Casablanca)
Country	Morocco
Description of Contract/	<u>Preliminary design</u> of landfill gas collection system and power plant
Waste quantity that has been accepted (2008)	9 million tons (MSW)
Role in project: <ul style="list-style-type: none"> • Assessment of LFG generation and collection potential • Preliminary design of landfill gas collection system • Review of utilization technologies • Preliminary design of power plant • Dynamic pumping tests 	
Date of contract commencement	1996
Date of contract termination	1998

Mediouna project

