

Energy Efficiency and Solid Waste Diversion Activities within the Quebec Sustainable Community



This Project Document (PD) was developed by Will Solutions Inc., formerly Gedden, in collaboration with ICF Marbek and Certi-Conseil Inc.

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Table of Contents

1	Project Details	
1.1	Summary Description of the Project	
1.2	Sectorial Scope and Project Type	
1.3	Project Proponent	4
1.4	Other Entities Involved in the Project	4
1.5	Project Start Date	
1.6	Project Crediting Period	Errour I Signet non défini
1.7	Project Scale and Estimated GHG Emission Reductions	
1.7		
1.8 1.9	Description of the Project Activity	
-	Project Location	
1.10	Conditions Prior to Project Initiation	
1.11	Compliance with Laws, Statutes and Other Regulatory Frameworks	
1.12	Ownership and Other Programs	
1.13	Additional Information Relevant to the Project	
2	Application of Methodology	
2.1	Title and Reference of Methodology	
2.2	Applicability of Methodology	
2.3	Project Boundary	
2.4	Baseline Scenario	
2.5	Additionality	
2.6	Methodology Deviations	
3	Quantification of GHG Emission Reductions and Removals	18
3.1	Baseline Emissions	
3.2	Project Emissions	
3.3	Leakage	
3.3 3.4	Summary of GHG Emission Reductions	
3.4	Summary of GHG Emission Reductions	
4	Monitoring	
4.1	Data and Parameters Available at Validation	
4.2	Data and Parameters Monitored	
4.3	Description of the Monitoring Plan	
5	Environmental Impact	32
5.1	Environmental Sustainability:	
5.2	Economic Sustainability:	
5.3	Social Sustainability:	
6	Stakeholder Comments	
Appendix	1	
1	Portrait of Québec	
2	Territory	
3	Parliament and Government	
4	Economy	
5	Gross Domestic Product	
6	Environment	
7	Additionality	
7 8	,	
o	Waste Diversion	
Appendix		
1	Sample Contract	

Insert table of contents



1 PROJECT DETAILS

1.1 Summary Description of the Project

This Energy Efficiency and Solid Waste Diversion Activities within the Quebec Sustainable Community project document was prepared by Will Solutions Inc. (formerly Gedden) to allow Gedden as project proponent (Sustainable Community Service Promoter (SCSP)), to quantify and originate GHG emission **reductions** in conformance with VCS Methodology VM0018 Energy Efficiency and Solid Waste Diversion Activities within a Sustainable Community (Version 1.0). This project targets a large range of "Client Facilities", all located inside the Province of Quebec, mainly small to medium sized companies, part of the industrial, commercial or institutional sector, and/or property of several and different owners and grouped together inside a "Sustainable Community" or "cluster".

The aggregated GHG emissions from small final emitters (SFE) of GHGs (warehouses, supermarkets, restaurants, shops, governmental and municipal buildings and offices, etc.) make up a significant component of regional GHG emissions; they also pose a significant opportunity to reduce real GHG emissions. Towards the objective of enabling SFE's participate in offset origination activities, this project is defined as a "Grouped Project"¹ enabled through Will Solutions proprietary Information and Communication Technology (ICT) as well as the use of an electronic tracking platform.

This project is a grouped project², where energy efficiency and solid waste diversion activities have been initiated by a Sustainable Community Service Promoter for an assortment of Client Facilities grouped and located inside the Province of Quebec. The SCSP will use a consolidated Information and Communication Technology-enabled data monitoring and collection system to track project activity data. Even though the activities of Client Facilities vary, energy consumption and waste management are similar across many businesses and organizations. This project is meant to work with and support the provision of single window reporting and measurement provided by a third party to capture the information required to quantify emissions reductions.

This project has been designed to be simple, yet rigorous to apply, measure, and monitor. Even though the activities of SFEs vary, energy consumption and waste disposal are similar across many businesses and organizations. The main Project objectives are:

- *i.* To gradually group together inside a "Sustainable Community or cluster", up to 10,000 Clients Facilities, located inside the Province of Quebec, that will achieve together a potential 26 052 000 tCO₂e of GHG emission reductions for the period 2010-2020;
- *ii.* To stimulate and reward Industrial Commercial Institutional (ICI) business units large or small facilities for their efforts to reduce GHG emissions, by giving them access to the internationally recognized voluntary carbon credits market;
- iii. To collect ground data in real time, and consequently, stimulate and enhance Industrial Commercial and Institutional (ICI) facilities for a better sustainable behaviour;
- iv. This approach stimulates and rewards all the small actions carried out by the ICI sites: to divert industrial and commercial waste from landfill, for a more efficient waste recovery and for increasing energy efficiency in buildings.

To overcome the inherent monitoring and measurement challenges of aggregating small energy efficiency and waste diversion activities, this project relies on advanced data gathering technology. Gedden has constructed this project to use its increased ability, through its electronic tracking platform, to collect data from Client Facilities. Gedden' system involves collecting ground data, activity per activity or event per event, in real time to calculate carbon emissions from a large number GHG Small Emitters. To do so, Gedden uses an amalgam of ICT technologies that provide automated ground data collection with minimum human intervention: Radio Frequency Identification (RFID), Wi-

¹ Voluntary Carbon Standard, 2011, Section 3.10

² See Verified Carbon Standard, 2011, Section 3.4 for grouped project requirements.



Fi or cellular network and web portals. Gedden's technology is scalable to support automated and manual data gathering along with off line data entry transaction. This will simplify third party auditing and control (monitoring) as well as data activities paramount to the emission reductions quantification.

1.2 Sectorial Scope and Project Type

The Sectorial Scopes are 3, 13 and it is a grouped project.

1.3 **Project Proponent**

Will Solutions Inc. (formerly Gedden) is the promoter and the project. Will Solutions Inc. will be a Sustainable Community Service Promoter (SCSP): An independent entity that provides essential services to stimulate greenhouse gas (GHG) reduction activities such as energy efficiency and waste handling to Client Facilities. SCSP adds value to Client Facilities by implementing ICT enabled electronic tracking platform, monitoring technologies, and emission reduction activities. In providing services to Client Facilities, SCSPs contractually maintain ownership of the environmental attributes associated with actions that reduce the Client Facilities overall GHG emissions. *Mr. Martin Clermont. Eng., M. Env. Sc., Tech. Mec is the project director and can be reached at* martin@gedden.com or phone 1-514.990.2124. Ext. 1.

1.4 Other Entities Involved in the Project

Will Solutions Inc. will be the sole promoter as per the Sustainable Community implementation and project operation in the same territory; the Province of Quebec, Canada. The Sustainable Community (Client Facilities) will group together over time up to 10, 000 Clients Facilities and maybe more, if the demand is there. All Clients Facilities will be located inside the Province of Quebec. The project implementation started in fall 2010 (but be retroactive to January 1st 2010) and will end on December 31th 2020 (or earlier should a National or Provincial regulation covers the emission source and renders the emission reductions non-additional).

1.5 Project Start Date

The project starting date is January 1st 2010.

1.6 Project Crediting Period

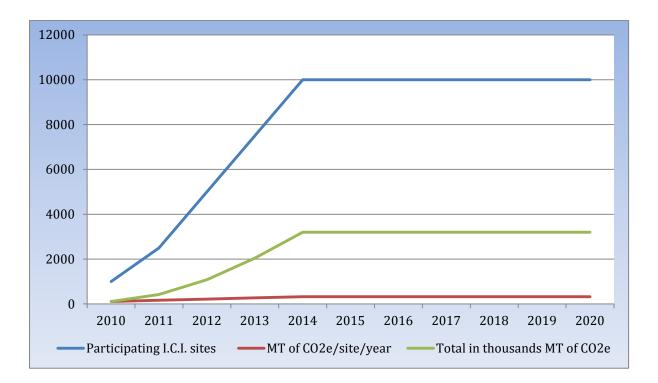
The project crediting period is 11 years, renewable for 5 years. The starting date is January 1st 2010 and will end December 31st 2020.



1.7 Project Scale and Estimated GHG Emission Reductions

- This project will group together gradually inside a "Sustainable Community", up to 10,000 Clients Facilities by the end 2014 and will be stabilized up to the year 2020. All Client Facilities will be located inside the Province of Quebec. The number of Clients Facilities might go beyond 10,000, if the demand and the driving force are there. The blue line on Figure 1 represents the growing participation of ICI's Client Facilities.
- This Sustainable Community of Clients Facilities all based in Quebec will achieve an estimated potential of 26 052 000 tCO₂e of GHG emission reductions for the period starting January 1st 2010 and finishing December 31nd 2020. It is possible that this average GHG reduction per Client Facility changes and potentially increases beyond 2014. The green line on Figure 1 represents the yearly Sustainable Community, as a whole, volume of the GHG emission reductions.
- The average GHG emission **reductions** are estimated to start at 112 tCO2e per Client Facility. Grouping together all potential energy efficiency and waste diversion activities reductions could rise to 340 tCO₂e per Client Facility by 2014. The red line on Figure 1 represents the growing yearly Sustainable Community, as a whole, volume of the GHG emission **reductions**.

Figure 1: Yearly evolution of number of Client Facilities (ICI sites), the GHG reductions average per site and the total cumulated GHG reductions for the Sustainable Community for the entire period of 2010-2020.





Project	
Mega-project	

The crediting period of the project is 11 years. The following Table presents the total and yearly estimated emissions reduction during the crediting period;

Years	Estimated GHG emission reductions or removals (tCO2e)
Year 2010	112 000
Year 2011	420 000
Year 2012	1 080 000
Year 2013	2 040 000
Year 2014	3 200 000
Year 2015	3 200 000
Year 2016	3 200 000
Year 2017	3 200 000
Year 2018	3 200 000
Year 2019	3 200 000
Year 2020	3 200 000
Total estimated ERs	26 052 000
Total number of crediting years	11
Average annual ERs	2 368 364

1.8 Description of the Project Activity

The main goal of this Energy Efficiency and Solid Waste Diversion Activities within the Province of Quebec and grouped together inside a Sustainable Community is to establish a synergy between the Community of Clients Facilities as optimizing their energy use and resources – or so called "Community ecology". This optimization may be occurring by the introduction of new clean technology's and/or by a significant change in their behavior while operating their facilities.

This project is applicable to "Grouped Project" for the quantification of direct and indirect GHG emission reductions arising from energy-efficiency and waste-diversion activities at Client Facilities. Projects could be located in residential, commercial, institutional, or industrial buildings/facilities.

The project proponent will demonstrate right of use in respect of the project's GHG emission reductions including securing rights of use from Client Facilities per VM0018.



Energy Efficiency

This project is applicable to Energy Conservation Measure (ECM) where the project activity is the construction of new facilities, the retrofit of existing facilities, or process/management changes of existing facilities that result in a reduction of energy use per unit of productivity. The ECMs will occur in conjunction with the following:

- Building envelope modifications
- Heating, ventilation and air conditioning (HVAC);
- Heat generation (including industrial thermal energy systems);
- Chilling/cooling systems;
- Lighting and lighting control;
- Building mechanical infrastructure;
- Appliances and industrial processes (including heating and cooling requirements and process modification);
- Electric motors;
- Equipment optimization;
- Maintenance.
- Energy conservation
- Heat recovery

The following guidance provides further clarification on energy efficiency activities, approach and applicability:

- a. Since different ECMs have different useful life periods, the project proponent must document the useful life and remaining useful life and ensure that the project crediting period does not exceed the ECM's useful life. If capital stock equipment that was originally measured in the baseline for a given project crediting period is replaced during a project crediting period, it can only be considered additional, and thus, be able to generate GHG credits, if it was retired prior to its natural capital stock rotation as indicated in the initial documentation of useful life. If capital stock enters the end of its useful life prior to the end of a project crediting period and is replaced, any emission reductions attributable to this replacement technology must not be considered towards generating credits, and shall lower the facility baseline by a sum equal to the difference in emissions between the previous capital stock equipment and the replacement capital stock equipment;
- *b.* By reducing energy consumption, applicable projects will reduce GHG emissions associated with the conversion of primary energy sources to secondary forms of energy (e.g., electricity, heat, mechanical energy, etc.);
- c. This project is also applicable to activities generating GHG emission reductions related to improvements in combustion efficiency³. This applies to projects involving switching from one energy generation method to a less GHG-intensive energy generation method. In this case, this project only quantifies emission reductions from fuel switching that occur within the project boundary. Fuel switching associated with large energy suppliers, which have emission reductions that exceed the established threshold of this project, are not intended to be quantified using this protocol. Only small on-site power sources, with emission reductions within the threshold limit of this project, are applicable for inclusion within the project removes risk of double counting. A net emission reduction and efficiency improvement would be achieved by such activities so long as a net reduction in overall greenhouse gas emissions per unit of productivity is achieved. The production of energy, particularly from fossil energy sources, has significant associated GHG emissions (typically combustion-related), including both direct and indirect sources;

³ There must not be double counting between activities related to improvements in combustion efficiency and any energy efficiency activities within the project.



d. Biological or chemical components of the operation must not yield any increase in non-biogenic greenhouse gas emissions compared to the baseline scenario, unless these are accounted for under the applicable flexibility mechanisms as indicated by an affirmation from the project proponent.

Waste Diversion

This project will cover waste diversion's activities for other productive uses and alternative disposal options. See the Waste Cycle Management Figure 2 below. This project will also address all waste reduction activities on site (minimization), waste recovering and reuse inside the facilities or exchange of wastes with other facilities so they use them as input material in their production line. This synergy will be possible through the spreading of an electronic portal that stimulates and generates group opportunities through waste exchange. Quebec's Regulation for Landfill Waste (Lois et règlements liés à la gestion des matières résiduelles c. Q-2, r. 19 -Règlement sur l'enfouissement et l'incinération de matières résiduelles).

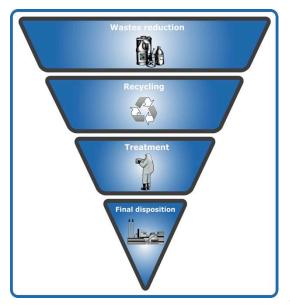


Figure 2- WASTE CYCLE MANAGEMENT

• Waste minimization – how to reduce the amount of waste generated less production, reuse, etc.

• **Recycled waste** – inside a market place; exchanging the waste between Client Facilities or sending them to a recycling commercial site;

- Treatment;
- Final disposal, such as landfill site.

This project is only applicable to quantify emission reductions associated with methane avoidance. It is not approved for quantifying emission reductions associated with landfill gas flaring or electricity/energy production.

This project is applicable to the following activities:

- Waste minimization;
- Cardboard, pulp, paper, textiles, wood, wood products and straw recycling or reuse;
- Organic composting;
- Aerobic decomposition.

See Appendix 1.8 – Waste Diversion

Electronic tracking platform

This Energy Efficiency and Solid Waste Diversion Activities within the Province of Quebec will be achieved by the use of an amalgam of existing Information Communication Technology (ICT) – Web portals, tracking software, wireless communication network – that once grouped and optimized together can stimulate and measure, in real time opportunities, environmental performance, and by all means, ICI facilities' participation to sustainable development. ICT is applied through an **electronic tracking platform** for each Client Facility. An electronic account and the effective electronic link



between all Client Facilities inside a territory will help to stimulate, to support and to measure their GHG related activities. SCSP (Gedden) will employ an ICT enable GHG monitoring system.

1.9 Project Location

All ICI's Clients Facilities associated to the project will be located inside the province of Quebec's territory in Canada. This grouping of Client Facilities bind them to a common geographic cluster (the territory of Province of Quebec), where the regional conditions (i.e. electricity source, climate, waste processing schemes, etc.) and regulations (i.e. waste and emission regulations, etc.) are similar for the different Clients Facilities.

The geographical map shown here represents the Province of Quebec and its territory. This Province shares more than 12,000 km of lands, rivers, and marine borders with Ontario, Nunavut, Newfoundland and Labrador, Prince Edward Island, New Brunswick, Nova Scotia, and United States.



An homogeneous emission factor for fossil combustibles and identifiable emission factor for the electricity grid can be applied, and is supplied by the authorized governmental entity of the Quebec government (Ministère des Ressources Naturelles et Faune, Québec).

Detailed information (Sections 1 to 7) is available in Appendix I describing the homogeneity of the Province of Quebec as a common geographic cluster.

1.10 Conditions Prior to Project Initiation

In 2008, as per the inventory of the Ministère du Développement Durable, de l'Environnement et des Parcs du Québec (MDDEP), the total GHG emissions in the Province of Quebec were 82.7 million tCO_2e , or 10.7t per inhabitant or 11.2% of the total Canadian emissions(734 million tCO2e). In 2009, the total Quebec GHG emissions were at 81.8 million tCO_2e . The breakdown of the 2008 GHG emissions for Quebec is as follows:

- Transportation (road, air, maritime, rail and off-road) was the sector that produced the highest amount of GHG emissions in Quebec. The GHG emissions were about 35.8 million tCO₂e or 43.2% of the emissions; Road transport by itself represented 77.8% of the GHG emissions from this sector of activity, or 33.7% of the total GHG emissions.
- The industrial sector followed with 24.7 million tCO₂e or 29.9% of the total GHG emissions;
- Residential, commercial and institutional (ICI)sector (building's heating) emitted 10.3 million tCO₂e or 12.5% of the emissions;
- The other emissions were generated by the agriculture, waste and electricity sectors, with 6.4 (7.7%), 5.0 (6.1%) and 0.4 (0.5%) million tCO₂e respectively.

Figure I in Appendix II shows the distribution of Quebec's 2008 GHG emissions by sector. As per the Ministère du Développement Durable, de l'Environnement et des Parcs du Québec, about 25 million of tCO₂e or 30% of the GHG emissions were generated by the large emitters, those who emitted



more than 25,000 tCO₂e *and that are under the Quebec Regulation Respecting Cap-and-Trade System for GHG allowance (December 15th, 2011);*

- De facto in 2008, 70% of the GHG emissions were generated by those who emitted less than 25,000 tCO₂e per year;
- In 2008, the residential, commercial, institutional and waste sector generated together about 48.5% of Quebec's GHG emissions. It is in these particular sectors, which grouped together represent more than 220,000 Clients Facilities that the promoter will carry out the GHG reduction emissions associated to this project.

The project will create permanent and measurable GHG reductions. It has not been implemented to generate GHG emissions for the purpose of their subsequent reduction, removal or destruction. Detailed information (section 7) is available in Appendix I describing the homogeneity of the Province of Quebec as a common geographic cluster.

1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

The project will meet all Canadian Federal and Provincial requirements standards and regulations. All GHG reductions will be carried out on a voluntary based beyond all regulations applicable related to the field of the project: energy efficiency and waste management.

Since 2006, Quebec has had a Green Plan to achieve the objective of the <u>Kyoto protocol</u> on climate change. The Ministère du Développement durable, de l'Environnement et des Parcs du Québec is primarily responsible for implementing environmental policy. On November 23, 2009, Premier Jean Charest has announced targets for reducing <u>greenhouse gases</u> during the <u>United Nations Climate</u> <u>Change Conference in Copenhagen</u>. Quebec will cut its emissions by 20% by the year 2020 compared to international reference of 1990. Extract from Wikipedia.http://en.wikipedia.org/wiki/Quebec.

The adoption (December 15th 2011) of the new Regulation Respecting Cap-and-Trade System for GHG Allowance materialize a first step towards Quebec's ambitious plan of cutting its emissions by 20% by the year 2020. Should this regulation come into effect and impact the additionally of the emissions reductions claimed herein the claim of reductions will be adjusted to ensure on those reductions deemed additional to the regulation are claimed.

1.12 Ownership and Other Programs

1.12.1 Proof of Title

The SCSPs contractually will maintain ownership of the environmental attributes associated with actions that reduce the Client Facilities overall GHG emissions. The promoter will sign a standard contract of 10 years with each of the Client Facilities. Sample contract can be found in Appendix 2.

This contract will specify that the Client Facility assigns and transfers his title in all benefits arising from reductions in greenhouse gas emissions ("GHG"), arising from its membership and its participation at this project by the use of the SCSP' solution. That means, the use of the ICT platform and all SCSP' service and support, including title in the carbon credits generated by these reductions. Upon signing the membership, the Client Facility acknowledges and confirms that he is the sole owner of their GHG reductions aimed by the SCSP for the duration of this agreement.



1.12.2 Emissions Trading Programs and Other Binding Limits

The SCSP intends to agglomerate and sale all carbon credits generated by this project over the worldwide voluntary markets. Since mid-2009, the SCSP has preliminary interest, and agreement in place with a worldwide carbon credits broker to sell all the $26,052,000 \text{ tCO}_2\text{e}$ of GHG emission reductions on the voluntary market.

As mentioned earlier, the adoption (December, 15th 2011) of a new Regulation Respecting Cap-and-Trade System for GHG Allowance materializes the first step towards Quebec's ambitious plan of cutting its emissions by 20% by the year 2020 compared to international reference of 1990.

1.12.3 Participation under Other GHG Programs

Not applicable.

Indicate whether the project has been registered, or is seeking registration under any other GHG programs. Where the project has been registered under any other GHG program, provide the registration number and details.

1.12.4 Other Forms of Environmental Credit

Not applicable.

Demonstrate that the project neither has nor intends to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program, or that any such credit has been or will be cancelled from the relevant program.

1.12.5 Projects Rejected by Other GHG Programs

The project was not submitted, analyzed and then rejected by other GHG programs.

Indicate whether the project activity has been rejected by any other GHG programs. Where the project has been rejected, provide the relevant information.

1.13 Additional Information Relevant to the Project

Eligibility Criteria

This Energy Efficiency and Solid Waste Diversion Activities within the Province of Quebec project is applicable for grouped projects for the quantification of direct and indirect reductions of GHG emissions arising from energy efficiency and waste management project activity instances at Client Facilities (Project Units).



The requirements of this project have been designed to meet micro energy efficiency and/or waste diversion project activity instances where the maximum emission reduction from an individual instance is 5,000 tCO₂e/year. Therefore, through a combination of energy efficiency and waste management activities, instances within a grouped project, it could have a maximum combined abatement threshold of 10,000 tCO₂e/year⁴. While each Client Facility, or instance, may only contribute a modest abatement (10,000 tCO₂e/year or less), the total sum of abatement from all instances within this entire grouped project may exceed the combined threshold of 10,000 tCO₂e/year.

This methodology is applicable for grouped projects for the quantification of direct and indirect reductions of GHG emissions arising from energy-efficiency and waste-diversion activities at Client Facilities. Projects could be located in residential, commercial, institutional, or industrial buildings/facilities.

The project proponent will demonstrate right of use in respect of the project's GHG emission reductions including securing rights of use from Client Facilities per VM0018.

For grouped projects, identify eligibility criteria for inclusion of new instances of each project activity.

Leakage Management

Not applicable at the Client Facilities sites level. Section 3.3 demonstrates that this project document assesses the likelihood of leakage based on the specific project activities.

Where applicable, describe the leakage management plan and implementation of leakage and risk mitigation measures.

Commercially Sensitive Information

The information produced inside this Project description document (PD) is considered public information. The only aspect that might be considered as sensitive information is related to the item 1.12.2. As mentioned earlier, the SCSP has already started preliminary discussions with several Ministers of this government regarding a potential sale as well as the use of some of the VCU tittle coming from this project.

Further Information

General and complementary information is available upon request.

⁴ An individual project activity instance could achieve a maximum of 5,000 tCO₂e/year from waste diversion instances and a maximum of 5,000 tCO₂e/year from energy efficiency instances for a total maximum of 10,000 tCO₂e/year from the two combined project activity categories.

2 APPLICATION OF METHODOLOGY

2.1 Title and Reference of Methodology

The title of the selected methodology is Energy Efficiency and Solid Waste Diversion Activities within a Sustainable Community. It is a new VCS methodology released in 2012.

2.2 Applicability of Methodology

The project meets the applicability conditions of the Energy Efficiency and Solid Waste Diversion Activities VCS methodology.

As project activities evolve and proliferate we will prove this at verification.

Demonstrate and justify that the project activity(s) meet the applicability conditions of the methodology(s) applied to the project.

2.3 Project Boundary

This project covers a forward series of activities some identified some that will evolve. The Project Sinks and Sources are defined in the VCS Methodology VM0018 Energy Efficiency and Solid Waste Diversion Activities within a Sustainable Community (Version 1.0) Section 5.0. This project targets a large range of "Client Facilities", all located inside the Province of Quebec, mainly small to medium sized companies, part of the industrial, commercial or institutional sector, and/or property of several and different owners and grouped together inside a "Sustainable Community" or "cluster".

Define the project boundary and identify the relevant GHG sources, sinks and reservoirs for the project and baseline scenarios (including leakage if applicable).

Source		Gas	Included?	Justification/Explanation
ne	Э	CO ₂	Excluded	Excluded as they must be functionally equivalent
Baseline	B1 Development and Processing of Unit	CH ₄	Excluded	to allow for the application of the methodology
Ba	Material Inputs	N ₂ O	Excluded	element.
		CO ₂	Excluded	Excluded since emissions from building of the
	B2 Building	CH ₄	Excluded	equipment are expected to be negligible over the
	Equipment	N ₂ O	Excluded	lifetime of the project.
		CO ₂	Excluded	Excluded since emissions from site development
	B4 Commissioning of	CH ₄	Excluded	are expected to be negligible given the minimal
	Site	N ₂ O	Excluded	site development typically required.
		CO ₂	Excluded	Excluded since emissions from fuel production
	B5 Fuel Production & Delivery	CH ₄	Excluded	and delivery are expected to be greater under
N_2O Excluded the baseline condition.	the baseline condition.			



Source	Gas	Included?	Justification/Explanation
	CO ₂	Excluded	Excluded since emissions from electricity
B6 Electricity	CH ₄	Excluded	generation and delivery are expected to be
Generation & Delivery	N ₂ O	Excluded	greater under the baseline condition.
	CO ₂	Included	Must be included as part of baseline if Energy
B7 Building/System	CH_4	Included	Efficiency actions are included in the project
Energy Consumption (without ECMs)	N ₂ O	Included	activity since this SS is fundamental to quantifying the baseline for EE emission reductions under this methodology.
	CO ₂	Included	Can be excluded if pre and project operations
B8 Maintenance	CH ₄	Included	would involve immaterial difference in energy
Do Maintenance	N ₂ O	Included	consumed for maintenance activities.
	CO ₂	Included	Con only be evaluated if preservited to be
B9 Unit Operation: Biological/Chemical/M	CH ₄	Included	Can only be excluded if prescribed to be functionally equivalent.
echanical Processes	N ₂ O	Included	
	CO ₂	Included	Can only be excluded if the facility or group of
	CH_4	Included	facilities is not quantifying emission reductions
B10 Energy Consumption from Waste Processing	N ₂ O	Included	associated with waste diversion activities and if the ECM activities would not affect the energy consumed for waste processing at the Territory level.
	CO ₂	Excluded	Excluded since emissions from disposal of
B11 Disposal of	CH_4	Excluded	equipment are expected to be negligible.
Equipment	N ₂ O	Excluded	
P10 Development	CO ₂	Excluded	Excluded as they must be functionally equivalent
B12 Development and Processing of Unit	CH ₄	Excluded	to allow for the application of the methodology
Material Outputs	N ₂ O	Excluded	element.
· ·			
	CO ₂	Included	Can only be excluded if the facility or group of
B14 Waste	CH ₄	Included	facilities is not quantifying emission reductions associated with waste diversion activities and if
Decomposition and Methane Release	N ₂ O	Included	the ECM activities would not affect the amount methane emitted from decomposition.
B15 Decommission of	CO ₂	Excluded	Excluded since emissions from equipment
Site	CH ₄	Excluded	- disposal are expected to be negligible.
	N ₂ O	Excluded	,



Source		Gas	Included?	Justification/Explanation
Project	P1 Development and Processing of Unit Material Inputs	CO ₂	Excluded	Excluded as they must be functionally equivalent
		CH ₄	Excluded	to allow for the application of the methodology
ā		N ₂ O	Excluded	element.
	Material inputs			
		CO ₂	Excluded	Excluded since emissions from building of the
	P2 Building	CH ₄	Excluded	equipment are expected to be negligible over the
	Equipment	N ₂ O	Excluded	lifetime of the project.
		CO ₂	Excluded	Excluded since emissions from site development
	P4 Commissioning of	CH ₄	Excluded	are expected to be negligible given the minimal
	Site	N ₂ O	Excluded	site development typically required.
		CO ₂	Excluded	Excluded since emissions from fuel production
	P5 Fuel Production &	CH ₄	Excluded	and delivery are expected to be greater under
	Delivery	N ₂ O	Excluded	the baseline condition.
		CO ₂	Excluded	Excluded since emissions from fuel production
	P6 Electricity Generation & Delivery	CH ₄	Excluded	and delivery are expected to be greater under
		N ₂ O	Excluded	the baseline condition.
		CO ₂	Included	Must be included as part of baseline if Energy
	P7 Building/System Energy Consumption	CH ₄	Included	Efficiency actions are included in the project
	(with ECMs)	N ₂ O	Included	activity.
		CO ₂	Included	Can be excluded if pre and project operations
		CH ₄	Included	would involve immaterial difference in energy
	P8 Maintenance	N ₂ O	Included	consumed for maintenance activities. If however maintenance activities included major overhauls that would not have been included in the baseline scenario, evidence must be provided by the project proponent to show the SS is below the negligible emissions threshold.
	P9 Unit Operation:	CO ₂	Included	Can only be excluded if prescribed to be
	Biological/Chemical/M	CH ₄	Included	functionally equivalent.
	echanical Processes	N ₂ O	Included	
				-
		CO ₂	Included	Can only be excluded if the facility or group of
	P10 Energy Consumption from	CH₄	Included	facilities is not quantifying emission reductions associated with waste diversion activities and if
	Waste Processing	N ₂ O	Included	the ECM activities would not affect the energy consumed for waste processing.



Sour	Source		Included?	Justification/Explanation	
		CO ₂	Excluded		
	P11 Disposal of	CH_4	Excluded	Excluded since emissions from disposal of equipment are expected to be negligible	
	Equipment	N ₂ O	Excluded		
	D40 Davidance and and	CO ₂	Excluded	Excluded as they must be functionally equivalent	
	P12 Development and Processing of Unit	CH ₄	Excluded	to allow for the application of the methodology	
	Material Outputs	N ₂ O	Excluded	element.	
	•				
		CO ₂	Included	Can only be excluded if the facility or group of	
	P14 Waste	CH ₄	Included	facilities is not quantifying emission reductions	
	Decomposition and Methane Release	N ₂ O	Included	associated with waste diversion activities and the ECM activities would not affect the amoun methane emitted from decomposition.	
	P16 Energy	CO ₂	Included	Can only be excluded if the facility or group of	
	Consumed from	CH ₄	Included	facilities is not quantifying emission reductions	
	alternative processing of waste / use	N ₂ O	Included	associated with alternative processing of waste / use in the project scenario at the Territory level.	
	P17 Process	CO ₂	Included	Can only be excluded if the facility or group of	
	Emissions from	CH ₄	Included	facilities is not quantifying emission reductions	
	Alternative Processing	N_2O	Included	associated with the alternative processing of waste at the Territory level.	
	of Waste				
		CO ₂	Excluded	Excluded since emissions from decommissioning	
	P18 Decommission of	CH ₄	Excluded	are not expected to differ highly between the	
	Site	N ₂ O	Excluded	baseline and project conditions.	

2.4 Baseline Scenario

A baseline scenario will be done for each ICI site Client Facility with an ex ante audit 12 to 24 months.

After January 1st 2010: Clients Facilities with GHG instances project reductions implemented after January 1st 2010.

i. The reference year will be 2009 and/or 2010 as baseline scenario for all and each Quebec ICI or a combination of previous year's average benchmark.



Before January 1st 2010: Client Facilities with project activity instance that impacted the energy efficiency and waste diversion processing project implemented before January 1st 2010:

- *i.* It might be possible to consider these project activities instance as if they were implemented after January 1st 2007;
- ii. The reference year in this case will be 2007 as baseline scenario for all and each Quebec ICI or a combination of previous year's average benchmark;
- *iii.* The GHG reductions convertibles into VCU will be only done for all GHG reductions beyond January 1st 2010;
- *iv.* No GHG reductions occurring between 2007 and the December 31st 2009 will be converted into carbon credits.

New Facility (built after 2010) Batiment leed (reference to a benchmark)

i. New Facilities will have to meet the Code National du Bâtiment – Canada 2010 (CNB)

Identify and justify the baseline scenario.

2.5 Additionality

- The aggregator (SCSP) is taking all the risk since, it will not generate any revenues without the sale of the carbon credits;
- ROI elements for the Clients;
- The cost to access the carbon market is greater than the available subsidies, if available;
- There are no subsidies for the behavioral changes, since it involves estimated cost of 12/hour/year per site, for data tracking only;
- Few subsidies are available and used for switch fuel transfer projects;

Demonstrate and assess the additionality of the project, undertaken in accordance with the applied methodology.

See Appendix 1.7 Additionality Table

2.6 Methodology Deviations

Not applicable.

Describe and justify any methodology deviations.



3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

3.1 Baseline Emissions

- *i.* The general and per capita references for GHG will come from the yearly National inventory of GHG emission (sink, source) Environment Canada and the Conference Board of Canada;
- ii. All emission factors used for the calculation, the quantification and the aggregation of the GHG emission reductions related to the industrial waste recycling (industrial ecology) projects will come from a study produced in 2005 for Environment Canada.(Determination of the Impact of Waste Management Activities on Greenhouse Gas Emissions, 2005 Update by ICF Consulting for Environment Canada and Natural Resources Canada) All updates concerning the emission factors will be recognized by the university and the appropriate scientific community;
- iii. All emission factors used for the calculation, the quantification and the aggregation of the GHG emission reductions related to building energy saving, will come from the Agence d'Efficacité Énergétique du Québec (AEEQ) <u>http://www.aee.gouv.qc.ca/en/the-aee/</u>. All updates on the emission factors will be recognized by the university and the appropriate scientific community.

Describe the procedure for quantification of the baseline emissions and/or removals. Include all relevant equations.

3.2 **Project Emissions**

Describe the procedure for quantification of the project emissions and/or removals. Include all relevant equations.

3.3 Leakage

The project proponent must assess the likelihood of leakage based on the specific project activities. If it cannot be shown that no plausible material leakage would occur based on the specific project activities, then this methodology shall not be applied.

• Financial

- Link between the Quebec Gross Domestic Product (GDP) and the GHG economical value;
- As per the inventory from the Ministère du Développement Durable, de l'Environnement et des Parcs, Quebec generated total emissions of 82.7 million tCO₂e in 2008, representing \$827 million at \$10/tCO₂e⁵;
- Quebec's GDP is equal to CAN \$300 billion;
- So for Quebec, the inclusion of the estimated carbon price represents ~ 0.28% of the GDP, that is < to 1%Since this project involves thousands of Client Facilities, we do not believe that the impact of this new estimated carbon price will create a movement to close or to move Client Facilities outside of Quebec causing a significant leakage outside the territory of Quebec. To the contrary, we believe that the participation of thousands of Client Facilities will create a significant and a positive driving effect to target emission reductions anticipated by this project.

Mass Balance

 Will be available by the recording and the keeping of the data, event per event, for each Client Facility through the use of ICI tracking platform;

⁵ The Quebec minimum allowance price used in its new regulation is established at $10/tCO_2e$.



- In terms of waste, the monitoring of all waste streams from their generation towards external management sites (commercial sites) occurred at each Client Facility will provide a solid mass balance. This procedure will enforce and ensure that effort in methane avoidance is real for each project and do not cause leakage (by simply moving of waste diverted from one landfill to another one);
- For energy efficiency, the use and the accounting of all energy invoices will, without any doubt, prevent leakage (simply by changing from one source of energy to another one).

Describe the procedure for quantification of the leakage emissions. Include all relevant equations.

3.4 Summary of GHG Emission Reductions

Describe the procedure for quantification of net GHG emission reductions and removals. Include all relevant equations For AFOLU projects; include net change in carbon stocks.

Provide the ex-ante calculation (estimate) of baseline emissions/removals, project emissions/removals, leakage emissions and net emission reductions and removals, using the table below:

Years	Estimated baseline emissions or removals (tCO2e)	Estimated project removals (tCO2e)	Estimated leakage emissions (tCO2e)	Estimated net GHG emission removals (tCO2e)
Year 2010	n.a.	112 000	0	112 000
Year 2011	n.a.	420 000	0	420 000
Year 2012	n.a.	1 080 000	0	1 080 000
Year.2013	n.a.	2 040 000	0	2 040 000
Year 2014	n.a.	3 200 000	0	3 200 000
Year 2015	n.a.	3 200 000	0	3 200 000
Year 2016	n.a.	3 200 000	0	3 200 000
Year 2017	n.a.	3 200 000	0	3 200 000
Year 2018	n.a.	3 200 000	0	3 200 000
Year 2019	n.a.	3 200 000	0	3 200 000
Year 2020	n.a.	3 200 000		3 200 000
Total	n.a.	3 200 000	0	3 200 000

Notes The estimated baseline emissions are done individually, per site, using a site average.



4 MONITORING

4.1 Data and Parameters Available at Validation

The following data units/parameters are referred in the methodology. Actual measurements or local data are to be used when available. If not available, regional data must be used. The data sources for each parameter are offered below, however; in their absence, IPCC defaults can be used from the most recent version of the IPCC Guidelines for National Greenhouse Gas Inventories.



Parameter:	EF Thermal Energy _{CO2e}
Data unit:	Kg CO₂e per GJ
Description:	CO ₂ e emissions factor for local generation of thermal energy
Source of data:	For the Territory of interest, the project proponent must identify the most appropriate CO2e emission factor for the source of thermal energy used under the project scenario. Regional data (for example: US Department of Energy's Form EIA-1605 Appendix N. Emission factors for Steam and Chilled/Hot Water) shall be used. In its absence, IPCC defaults must be used from the most recent version of IPCC Guidelines for National Greenhouse Gas Inventories providing they are deemed to reasonably represent local circumstances. The project proponent must choose the values in a conservative manner and justify the choice.
Value applied	
Justification of choice of data or description of measurement methods and procedures applied:	Thermal Energy generation characteristics are likely to remain relatively stable over a year's time.

Parameter:	EF Fuel i N20
Data unit:	Kg N ₂ O per L, m ³ , or other
Description:	N ₂ O emissions factor for combustion of each type of fuel (EF Fuel i N2O)
Source of data:	For both mobile and stationary fuel combustion for the Territory of interest, the project proponent must identify the most appropriate emission factors for the source of thermal energy used under the project condition. Regional data (for example: EPA's AP 42, Compilation of Air Pollutant Emission Factors) shall be used. In its absence, IPCC defaults must be used from the most recent version of IPCC Guidelines for National Greenhouse Gas Inventories providing they are deemed to reasonably represent local circumstances. The project proponent must choose the values in a conservative manner and justify the choice.
Value applied	
Justification of choice of data or description of measurement methods and procedures applied:	This is one of the most comprehensive fuel emission factor databases available.

Parameter:	EF Fuel _{i CH4}
Data unit:	Kg CH₄ per L, m³, or other
Description:	CH ₄ emissions factor for combustion of each type of fuel
	(EF Fuel _{i CH4})
Source of data:	For both mobile and stationary fuel combustion for the Territory of
	interest, the project proponent must identify the most appropriate
	emission factors for the source of thermal energy used under the
	project scenario. Regional data (for example: EPA's AP 42,
	Compilation of Air Pollutant Emission Factors) shall be used. In its
	absence, IPCC defaults can be used from the most recent version
	of IPCC Guidelines for National Greenhouse Gas Inventories
	providing they are deemed to reasonably represent local
	circumstances. The project proponent must choose the values in
	a conservative manner and justify the choice.
Value applied	
Justification of choice of data or	This is one of the most comprehensive fuel emission factor
description of measurement	databases available.
methods and procedures applied:	



Version 3

Parameter:	EF Fuel i CO2			
Data unit:	Kg CO ₂ per L, m ³ , or other			
Description:	CO ₂ Emissions Factor for combustion of each type of fuel			
	(EF Fuel _{i CO2})			
Source of data:	For both mobile and stationary fuel combustion for the Territory of			
	interest, the project proponent must identify the most appropriate			
	emission factors for the source of thermal energy used under the			
	project scenario. Regional data (for example: EPA's AP 42,			
	Compilation of Air Pollutant Emission Factors) shall be used. In its			
	absence, IPCC defaults can be used from the most recent version			
	of IPCC Guidelines for National Greenhouse Gas Inventories			
	providing they are deemed to reasonably represent local			
	circumstances. The project proponent must choose the values in			
	a conservative manner and justify the choice.			
Value applied				
Justification of choice of data or	This is one of the most comprehensive fuel emission factor			
description of measurement	databases available.			
methods and procedures applied:				

Parameter:	ϕ
Data unit:	-
Description:	Model correction factor to account for model uncertainties (0.9)
Source of data:	This factor is determined using the CDM's "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site (Version 05.1.0)" (CDM, 2011).
Value applied	
Justification of choice of data or description of measurement methods and procedures applied:	The most used tool for calculation landfill gas emission reductions.

Parameter:	OX		
Data unit:	-		
Description:	Oxidation factor (reflecting the amount of soil or other material covering the waste)		
Source of data:	This factor is determined using the CDM's "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site (Version 05.1.0)" (CDM, 2011)		
Value applied			
Justification of choice of data or description of measurement methods and procedures applied:	The most used tool for calculation landfill gas emission reductions.		

Parameter:	DOC ₁
Data unit:	-
Description:	Fraction of degradable organic carbon (DOC) that can decompose
Source of data:	This factor is determined using the CDM's "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site (Version 05.1.0)" (CDM, 2011)
Value applied	
Justification of choice of data or description of measurement methods and procedures applied:	The most used tool for calculation landfill gas emission reductions.



Version 3

Parameter:	DOCj
Data unit:	-
Description:	Fraction of degradable organic carbon (by weight)
Source of data:	This factor is determined using the CDM's "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site (Version 05.1.0)" (CDM, 2011)
Justification of choice of data or description of measurement methods and procedures applied:	The most used tool for calculation landfill gas emission reductions.

Parameter:	MCF
Data unit:	-
Description:	Methane correction factor
Source of data:	This factor is determined using the CDM's "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site (Version 05.1.0)" (CDM, 2011).
Value applied	
Justification of choice of data or description of measurement methods and procedures applied:	The most used tool for calculation landfill gas emission reductions.

Parameter:	k _i						
Data unit:	-						
Description:	Decay rate for the waste type j						
Source of data:	IPCC 2006 Guidelines for National Greenhouse Gas Inventories						
	(ada	(adapted from Volume 5, Table 3.3)					
Value applied							
Justification of choice of	Арр	oly the	e following defau	It values for	the differe	nt waste type	es j
data or description of measurement methods and	Boreal and Temperate (MAT≤20°C) Tropical (MAT>20°C)				AT>20°C)		
procedures applied:		Waste type <i>j</i>		Dry (MAP/PET <1)	Wet (MAP/PET >1)	Dry (MAP< 1000mm)	Wet (MAP> 1000mm)
		Slowly degrading	Pulp, paper, cardboard (other than sludge), textiles	0.04	0.06	0.045	0.07
		Slow degra	Wood, wood products and straw	0.02	0.03	0.025	0.035
		Moderately degrading	Other (non-food) organic putrescible garden and park waste	0.05	0.10	0.065	0.17
	Rapidly	Rapidly degrading	Food, food waste, beverages and tobacco (other than sludge)	0.06	0.185	0.085	0.40
	NB: MAT – mean annual temperature, MAP – Mean annual precipitation, PET – potential evapotranspiration. MAP/PET is the ratio between the mean annual precipitation and the potential evapotranspiration. If a waste type, prevented from disposal by the proposed CDM project activity, cannot clearly be attributed to one of the waste types in the table above, project participants choose among the waste types that have similar characteristics that waste type where the values of DOCj and kj result in a conservative estimate (lowest emissions), or request a revision of / deviation from this methodology. Document in the CDM-PDD the climatic conditions at the SWDS site (temperature, precipitation and, where applicable, evapotranspiration). Use long-term averages based on statistical data, where available. Provide references.						





4.2 Data and Parameters Monitored

The following data units/parameters are directly related to sources, sink and reservoirs emissions; they are monitored on a regular/continuous basis or on a event/occurrence basis:

Data Unit / Parameter:	Volume or Quantity of Fuel i		
Data unit:	L, m ³ , kg or MT		
Description:	Volume or weight of each type of fuel combusted. This volume or weight of fuel is adjusted for both functional equivalence and units of productivity.		
Source of data:	The volume of fuel is determined by supplier meters (which are regularly calibrated) and reported on bill of lading and invoices, consolidated monthly or at each tanking.		
Description of measurement methods and procedures to be applied:	The Bill of Lading and the Invoice of each Fuel delivery is consolidated. End of period residual fuel volume evaluation could be estimated.		
Frequency of monitoring/recording:	At each delivery, or a monthly basis, the volume or quantity of Fuel is measured and recorder. Evidences will be recorded on Bill of Lading and Invoices.		
Value applied:	-		
Monitoring equipment:	 The monitoring equipment includes: Flow meters installed on tanker. By law, such flow meters are to be calibrated regularly. Supplier sealed flow meters installed at client facility, such gaz meter. 		
QA/QC procedures to be applied:	 The SPSC system applies the following QC/QA procedures: Data comparison with past performance Data comparison with similar Project Unit Data comparison with standard benchmark (Ashrae 90.1, Model National Energy Code for Building MNECB,) Data comparison with sector association. Project Unit Investigation for root cause analysis of data profile if outside range Project Unit Physical audit to validate the measurement devices conditions and collect related evidence. 		
Calculation method:	In case where fuels are tanked, end of period adjustment would be assessed with Client Facility internal gauge: the incertitude linked to this assessment is reduced by the number of time the tank is filled during the period. In case Project Unit is supplied by Client Facility tank, the apportion is justified by evidences.		
Any comment:			



Data Unit / Parameter:	Electricity		
Data unit:	kWh		
Description:	The amount of electricity consumed from the grid.		
Source of data:	The amount of electricity consumed from the grid is determined		
	by the supplier calibrated kWh meter.		
Description of measurement	The Bill of Lading and the Invoice of each Fuel delivery is The		
methods and procedures to be	amount of electricity consumed from the grid is determined by the Hydro-Québec calibrated kWh meter		
applied:	-		
Frequency of	Monthly or bi monthly, with consumption statement . Evidences		
monitoring/recording:	will be recorded on Invoices.		
Value applied:	-		
Monitoring equipment:	The monitoring equipment includes:		
	Electric meters installed at the entry of Client		
	Facility/Project Unit electricity supply By law, such		
	electric meters are sealed and are to be calibrated regularly.		
QA/QC procedures to be	The SPSC system applies the following QC/QA procedures:		
applied:	Data comparison with past performance		
	Data comparison with similar Project Unit		
	 Data comparison with standard benchmark (Ashrae 		
	90.1, Model National Energy Code for Building MNECB,)		
	 Data comparison with sector association. 		
	 Project Unit Investigation for root cause analysis of data 		
	profile if outside range		
	 Project Unit Physical audit to validate the measurement 		
	devices conditions and collect related evidence.		
Calculation method:	If internal meters are required for the Isolation Parameter		
	Measurement option, electrical consumption is determined by		
	meters which are calibrated as per the manufacturer's schedule.		
	Alternatively the energy consumed by the related electrical devices will be equal to nominal power of the devices over the		
	time of operations.		
Any comment:			



Data Unit / Parameter:	Quantity of waste			
Data unit:	Kg or MT			
Description:	Weight of waste which is diverted form landfill for being recycled, re-use.			
Source of data:	The weight is determined by scale at recycling premises and/or at Project Unit. The weight is reported on the Bill of Lading for each shipment.			
Description of measurement methods and procedures to be applied:	The weight of waste is reported on the Bill of Lading and the Invoice of each shipment.			
Frequency of	At each shipment or a monthly basis.			
monitoring/recording:	Evidences will be recorded on Invoices.			
Value applied:	-			
Monitoring equipment:	The monitoring equipment includes:			
	Weighting balance.			
QA/QC procedures to be	The SPSC system applies the following QC/QA procedures:			
applied:	 Data comparison with past performance 			
	 Data comparison with similar Project Unit 			
	 Data comparison with Data comparison with sector association. 			
	 Project Unit Investigation for root cause analysis of data profile if outside range 			
	 Project Unit Physical audit to validate the measurement devices conditions and collect related evidence. 			
Calculation method:	Waste weight could be expressed in other than SI units, such ST, Lbs: conversion is made to have waste weight expressed in Kg or MT			
Any comment:				

The following data units/parameters are monitored to increase the interval confidence on the emission reduction calculation:

Data Unit / Parameter:	Length	
Data unit:	m	
Description:	Length .	
Source of data:	The determination of unit of productivity may be related to building surface/volume. At the time of SCPS registration audit surfaces may be metered in absence of reliable sources.	
Description of measurement	Project Unit critical dimension may be metered with manual meter	
methods and procedures to be	or laser device (with calibration certificate).	
applied:		
Frequency of	The dimensions will be confirmed at the time of the registration	
monitoring/recording:	audit.	
Value applied:	-	
Monitoring equipment:	The monitoring equipment includes:	
	Manual meter tape	
	Laser measurement tape.	
QA/QC procedures to be	The SPSC system applies the following QC/QA procedures:	
applied:	 Calibration procedures of the measurement device. 	
Calculation method:	-	
Any comment:		



Data Unit / Parameter:	Temperature		
Data unit:	°C		
Description:	 Temperature (Average): For the Activities which are impacted by environmental conditions. For Project Unit enthalpy measure (to be linked to flow/pressure), where this measure is required to calculate emissions and cannot be determined by fuel consumption. 		
Source of data:	 Natural Resources Canada: NRC provides statistics of daily/monthly average for region/territory. Project Unit calibrated thermometers 		
Description of measurement methods and procedures to be applied:	 The comparison of actual Project Unit Temperature average and baseline will be assessed: a Non-Routine adjustment may be applied consecutively for all concerned Project Units. For stabilised Energy Efficiency activities, a continuous/regular Temperature measurement. 		
Frequency of monitoring/recording: Value applied:	Once per baseline period Regularly as per Energy Efficiency activities		
Monitoring equipment:	The monitoring equipment includes: • Calibrated Thermometers.		
QA/QC procedures to be applied:	 The SPSC system applies the following QC/QA procedures: Correlation between NRC averages for different territories. Project Unit QC/QA to address all non-conformities arising from measurement device failure. 		
Calculation method:	-		
Any comment:			



Data Unit / Parameter:	Pressure
Data unit:	Kg/m ²
Description:	Pressure of gaz or liquid flowing into pipings:
Source of data:	Manual or electronic pressure captor
Description of measurement	Operators to ensure that pressure is within limits of the process
methods and procedures to be	At the time of starting the process
applied:	 On going surveillance once the process is running
Frequency of	Continuous surveillance
monitoring/recording:	
Value applied:	-
Monitoring equipment:	The monitoring equipment includes:
	 Calibrated captors.
QA/QC procedures to be	The SPSC system applies the following QC/QA procedures:
applied:	 Project Unit QC/QA to address all non-conformities
	arising from measurement device failure.
Calculation method:	•
Any comment:	



4.3 Description of the Monitoring Plan

The monitoring plan will be applied to all Project Units as follow:

		-							
			Baseline			Proj	Project		
Category	Activity	Measure Option	Adjustment	Parameter	Instrument	Frequency	Incertitude	Impact on reduction	Ağustment
Fuel switching	riomass boiler	Option B		Mass of processed biomass	bader bucket	consolitation every week	estimate of the average mass in the burket	none	Process Vield
Ereny Of Leny	Heat Necovery: process	Option A	Process yield	Volume of fuel	Volume/Quantity on invoice*	continuous	negfigble as mærsue devices offansked	none	51
	Heat Recovery: process	Option B	Process Vield	T' and Deliit (Enthalpy)	Thermorneller Debritmeter	CONTINUOUS	negigide as massue devices calitrated	none	
	Heat Recovery. process	Option A		Volume of fuel	Volume/Quantity on invoice* when tarting	terraction based	Residual inventory at the end of the period	decrease with decrease with tank the tank the tank the compensate on	
	tnegy Biriency. builting heating	Option A	Unit of productivity. Yokume of fuel	Volume of fuel	Volume/Quantity on invoice*	continuous	negigide as mansue devices calityated	Bue	Commercial building: unit of productivity
	Energy Efficiency: builting HVAC	Option A/Option B	Volume of Volume of Volume of the Alama of t	Yohme of fuel/energy	Volume/Quantity an invaice*	continuous	negfigble as mæsure devices callorated	none	Commercial building: unit of productivity
	friegy Britenoy: enveloppe enhancement	Option A	Volume of Unit of productinity fuely/energy	Volume of Fuel/energy	Volume/Quantity an invaice*	CONTINUOUS	6	nome	Commercial building: unit of productivity
	Energy Bitriancy: amelogye anhancement	Option B	Unit of productivity. Yolume of fuel	Volume of fuel	Volume/Quentity on invice* when tarting	tarsation based	Residual invertory at the end of the period	decesse with tank ting turnover, compensate on	Commercial builting: unit of productivity
K ate	friegy (Fitziency: Indifing Egitring Macte Aiversion	Option A Option B	light intensity	Morrinal Wattage Waate masyvolume	klandiscturer technical data mess balance volume container	at the time installation transaction based	hegfighte as massue devices calitrated weight cal-utation from volume	rone makeidity as company danged on container	
-	Waste reduction: substitution of single wood palettes by reutsitie cartoard palette	O ption B		Number of palettes and reusage	Mundes of Iranel weiten on patere/Bill of Lating	Monthly consolitation	wood palatite and of the at point of destination	ldac enargy substution if burn	

Sustainable Community: monitoring

* triangy suppliess have to have their debitmeters regurning calibrated; th envoice is then haved on the calibrated debitmeter reading

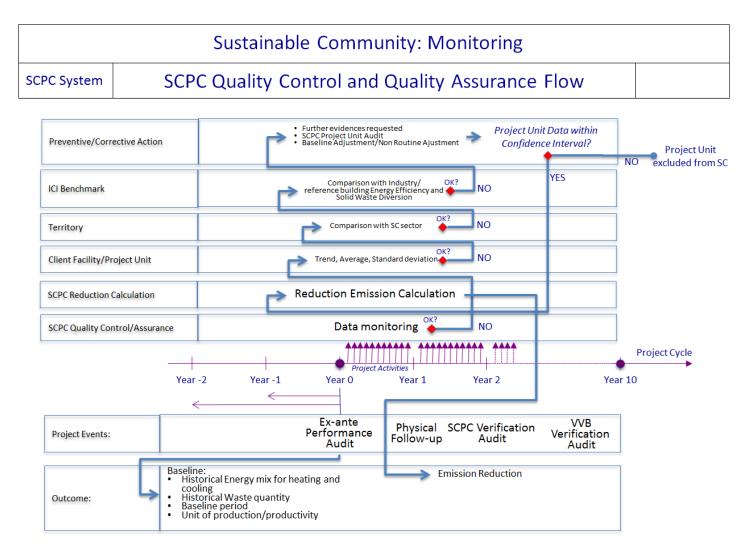


In addition a Quality Control of the data will be performed as follows:

- At the time of registration the project unit: a physical audit of the Project Unit premises takes place, and physical evidence necessary to determine the baseline scenario will be collected.
- At each entry in the SCPC system, controls will be run to compare entry to historical data, sectorial SCPC benchmark and to external benchmark.
- Investigation may be necessary to get physical evidences of the data entered into the SCPC system,
- Impact of a possibly recurrent issue will be looked at for all the concerned Project Units.
- For each baseline period, a random sample of Project Units will be audited during the course of the project. The sample size will be the square root of the Project Units participating to the SCPC system. Evidence of the audit are kept: discrepancies will be analysed as well as potential impact on related Project Units.

The figure below provides the SCPC validation/verification data workflow:



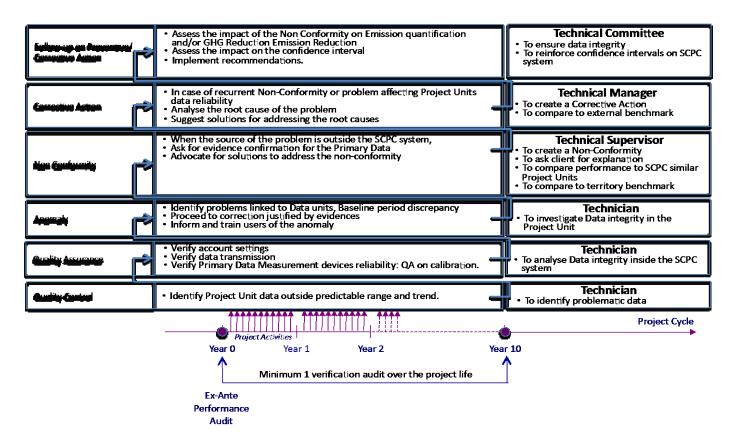


In terms of organization, there are six levels that potential problems can be escalated, with different level of responsibility of the organization. Should the system require, a recourse/appeal will be set in place.



SCPC System

SCPC Anomalies, Non-Conformities and Corrective Actions



From an operational stand point, data is stored in a distributed computer network.

5 ENVIRONMENTAL IMPACT

The project proponent believes that this Energy Efficiency and Solid Waste Diversion Activities within the Province of Quebec will contribute sensitively to improve the quality of the environment as well as the economic and the social sustainability inside Quebec's territory (Canada) as described in the following:

5.1 Environmental Sustainability:

- The project will meet all Canadian Federal and Provincial requirements, standards and regulations;
- The project will produce real and measurable GHG emission reductions;
- The project will contribute to the optimization of energy use. Resources may be occurring by the introduction of new clean technologies and/or by a significant changes in Client Facilities' operating behavior;



 The participation of all Client Facilities to this Sustainable Community will optimize their sustainable environmental performance beyond energy use and resources – so called "Industrial ecology" concept.

5.2 Economic Sustainability:

The projects will use the most efficient ICT technologies to stimulate opportunities creating a potential return of investment (ROI) for the participating ICI Client Facilities. This potential ROI is based on:

- Cost-saving for the disposal of industrial residues and waste, and consequently, a considerable decrease in tax fees;
- Reduction of management costs when there is industrial exchange between the community members;
- Cost-saving resulting from lower cost of raw material (reduction, reuse and recovering);
- Group economy from the purchase of combined environmental services;
- Energy conservation associated to the reduction of industrial waste transport;
- Reduction of energy use per unit of production.

5.3 Social Sustainability:

The project will:

- Improve the quality of life for all the cities surrounding the Province of Quebec through the use of the Sustainable Community Solution;
- Enhance the companies behaviour, since the more they act, the more they change their behaviour in a sustainable way;
- Maintain and motivate the ongoing ICI's behaviour for a better awareness of the sustainable development requirements;
- Directly involve all the ICI and canalize their desire to participate in sustainable development initiatives project.

Summarize any environmental impact assessments carried out with respect to the project, where applicable.

6 STAKEHOLDER COMMENTS

Our main comments on three specific areas are:

 We are proud to participate in a new concept that groups together several type of facilities (different in nature and operated by different owners), mainly small final emitters (SFE) of GHG, in a Community approach to stimulate changes in their behaviour and by optimizing their operations in several activities such as energy efficiency, waste diversion and beyond. What we call "Community Ecology".



By grouping together several small businesses or organizations using a "Sustainable Community" approach, lasting behavior change can be stimulated. It does so by providing a framework to stimulate and generate small GHG reductions. The following should be considered in regards to SFEs:

- They represent 80% of companies and organizations world-wide;
- There is an opportunity to increase and encourage their desire to take GHG reducing actions;
- They can involve their employees as well as their supply chain contractors, and customers;
- SFEs can be grouped together into Sustainable Community projects.

This project it is the first one based on a new VCS methodology element. It also has the potential to be applied in a wide variety of clusters in many regions of the world.

• We strongly believe in this sustainable optimization (energy and resources) by the introduction of new clean technology's and/or by a significant change in their operational behaviour.

In this project description document (PD), provisions have been provided to quantify emission reductions associated with energy efficiency and improved waste handling and disposal systems. Following the project's implementation, it might be possible that the SCSP add other project activities instances, namely, optimization of transport, solvent optimization and ODS reduction. In this case, SCSP will submit an addendum to the accepted methodology by VCSA or by producing and submitting a separate PD applied for the same Community of Client Facilities in the territory of Quebec.

- Only for the transport optimization, we estimated a supplemental GHG reduction potential of 6,513,000 tCO₂e, for the period of 2110-2020. This supplement will allow us to reach our corporate objective of 32,565,000 tCO₂e in 2020;
- We also estimated a supplemental potential of 10 % at the 32,565,000 tCO₂e from other project activities instances, namely, water treatment, solvents and ODS reductions. This will give us, in 2020, total reductions of about 35,000,000 tCO₂e for all Community's Client Facilities.

Declaration

The participation of all ICI and Will Solutions Inc. (formerly Gedden) is in accordance with ISO-14064 Standard for all identification, quantification and certification of all reduction of GHG emissions and described in this Projects Description and it is voluntary under VCS.

The information provided in this PD is true and correct.

All Canadian ICI facilities using the Sustainable Community Solution are free from any litigation pertaining to the project in the Canada and overseas.

September 21th 2012

Signature of CEO

Martin Clermont, Eng. M.Sc.Env.,B.Tech. Mec. PDG/CEO / Will Solutions Inc. (formely Gedden)



1

PROJECT DESCRIPTION: VCS

APPENDIX I

PROVINCE OF QUEBEC:

PORTRAIT OF QUÉBEC

Extract of the official web site of the Government of Quebec, January 2012. http://www.gouv.qc.ca/portail/quebec/pgs/commun/portrait/?lang=en

"Unique" is a great way to describe Québec. The province is in a class of its own, with its immense territory and distinctive personality, thanks to its majority French-speaking, multicultural population. Quebec, the largest Canadian province, is the only one where French is the population's first language!

A modern and solidary society with a universal, free healthcare system and a highly developed education system, Québec is known for its exceptional quality of life and for its democratic political system. Its diversified economy is powered by abundant natural resources and an expanding information technology sector and other cutting-edge industries.

This portrait of Québec is presented from a government perspective. This profile features how the Québec State intervenes, manages and structures each sector of activities.

Through this satellite view, we can locate Province of Quebec and see main summits and associated height above sea. Some phenomenon are illustrated by photographs while others by interpretation keys.







TERRITORY

Extract of the official web site of the Government of Quebec, January 2012. http://www.gouv.gc.ca/portail/guebec/pgs/commun/portrait/?lang=en

Québec's territory is made up of lands, freshwater bodies and courses, and a marine environment that takes in the fleuve Saint-Laurent and the golfe Saint-Laurent as well as the coastline of Baie James, Hudson Bay, Hudson Strait, and Ungava Bay. In Québec, privately-owned lands represent only a small portion of the territory. Everything else is public land.

Privately-owned Land:

- Covers nearly 8% of the territory (116,910 km²);
- Is located in southern Québec, which contains most of the population lives in the lowlands of the Saint-Laurent, around Gaspésie and Lac Saint-Jean, and in Abitibi;
- Is subdivided into nearly 3.5 million lots represented by the cadastre.

Public Land:

- Covers more than 92% of the territory, which includes:
 - land and inland water: 1,396,969 km²;
 - a marine environment: 153,562 km²;
- Lies mainly in the center and northern parts of Québec, which are sparsely populated;
- Constitutes a major heritage, exceptional natural environment, and basin of natural resources essential to the socioeconomic development of all regions of Québec.

The manager of this public land is the ministère des Ressources naturelles et de la Faune. The Department is responsible for developing the territory as well as natural resources including forestry, mineral, energy, and wildlife resources.



3

PARLIAMENT AND GOVERNMENT

The Parliament of Québec consists of the Lieutenant Governor and the National Assembly. The Lieutenant Governor, appointed by the Federal Government, is the Queen's representative in each of the Canadian Provinces. The Lieutenant Governor only assents to Acts. He does not participate in debates.

The National Assembly

The National Assembly is composed of 125 Members, representing the 125 electoral divisions. The Parliament Members are elected by the population. The voting procedure is based on the principle of first-past-the-post system in each riding. The role of the National Assembly is to pass legislation, in other words to lay down compulsory standards in the areas recognized as coming under provincial jurisdiction in the Canadian constitution.

In the Québec's parliamentary system, inspired from Great Britain, the Parliament and the Government represent separate powers: the legislative power and the executive power.

The Parliament

The Parliament examines proposed legislation submitted to it in the form of bills by the Government and either accepts or rejects them. Parliament also oversees the Government's application of laws and supervises all government activities (legislative power).

The Government

The Government is formed of certain elected representatives of the party holding the majority of the seats in the National Assembly. Its function is to provide the political management of Québec. In the parliamentary system, the executive power is accountable to the Parliament.

Almost all bills are conceived and drafted by the Government, in other words the Premier and the Cabinet. Altough we tend to associate the Government with the notion of "power", in a legal sense the Government stems from, and is controlled by, Parliament.

The Prime Minister

Formally designated by the Lieutenant-Governor, the Prime Minister is in fact chosen by the electorate when it elects a majority of Members from the same party. The Premier, in turn, selects the Members who will form the Cabinet (Executive Council), and holds power for as long as he or she retains the confidence of a majority of Members. Convention also requires each minister to support the decisions made by the Cabinet, or resign, in keeping with the principle of ministerial responsibility.

The Action Plan on climate change (PACC)

In June 2006, Québec confirmed its leadership ambitions in the area of continent-wide sustainable development when it released its 2006-2012 Action Plan on climate change (PACC). Quebec implemented an Action Plan to move forward by adding funds and measures to the Action Plan, ensuring that Québec will contribute to the objectives of the Kyoto Protocol. Through this revised Action Plan that follows The Sustainable Development Act (managed by the MDDEP), The Québec Energy Strategy 2006-2015 (managed by the MRNF) and The Québec Public Transit Policy, the government means to build a Québec that is concerned about both the welfare of current generations and the development of the generations to come. Several Quebec's Ministères and Agencies are working to implement this Plan, such as MDDEP, MRNF, MDEIE and others.



Ministère du Développement durable, de l'Environnement et des Parcs (MDDEP)

The mission of the Ministère du Développement durable, de l'Environnement et des Parcs (MDDEP) is to protect the environment and natural ecosystems for the benefit of current and future generations. This Ministère is in charge of the climate change issue, such the adoption (December 15th 2011) the new regulation respecting Cap-and-Trade system for GHG allowance.

Ministère des Ressources naturelles et de la Faune

The mission of the Ministère des Ressources naturelles et de la Faune is to promote knowledge acquisition and to ensure the development and optimal use of land, energy, forestry and mineral resources in Québec from a sustainable development perspective, for the benefit of the entire population.

4

ECONOMY

Extract of the official web site of the Government of Quebec, January 2012. http://www.gouv.gc.ca/portail/guebec/pgs/commun/portrait/?lang=en

The largest province in Canada by surface area, Québec ranks second on the basis of population with 7.8 million people (in 2009). The active population represents 4.2 million people. Québec strong and diversified economy ranks among the 50 most important in the world. Its economic vitality is due to a number of factors including:

- Its strategic position in North America;
- Abundant natural resources;
- *Hydro-electric power;*
- Innovative and dynamic R&D as shown by the excellence in advanced technologies;
- Exportation of products across the world.
- See the Table about Energy, page 33 from Québec Handy Numbers, Institut de la Statistique du Québec, Edition 2011.

5

GROSS DOMESTIC PRODUCT

Extract of the official web site of the Government of Quebec, January 2012. http://www.gouv.gc.ca/portail/guebec/pgs/commun/portrait/?lang=en

Québec Gross Domestic Product (GDP) (total production of goods and services) is more than \$300 billion, representing almost 20 % of Canada's economy. Québec's GDP per capita holds the 28th rank worldwide and is comparable to that of countries such as Italy, France and Japan.

Quebec is listed among the top 20 best tourist destinations in the world. Approximately ten millions tourists visit the province each year. In 2009, tourism industry generated more than ten billion in revenues. Tourism accounts for some 3 % of the total Québec's gross domestic product (GDP).

• See the Table Economic activity by sector (NAICS), page 46 from Québec Handy Numbers, Institut de la Statistique du Québec, Edition 2011.



ENVIRONMENT

• See the Summary of the Environment (GHG emission and waste management), page 9 from Québec Handy Numbers, Institut de la Statistique du Québec, Edition 2011.

INDUSTRIAL, COMMERCIAL AND INSTITUTIONNAL SITES (ICI)

The breakdown of all ICI potentials Clients Facilities for all the Province of Quebec was estimated at 219 938 facilities using Statistics Canada information. This number is very conservative because it only identified the number of company and is not associated with the number of facilities. Many companies may have more than one facility.

Gedden - PD's approach used for the pre quantification of GHG abatement

Number of ICI - Summary of ICI breakdowns sites in all Quebec October 2009

SCIAN Code	Description (in french)	Number of industry	Number of commerce	Number of institution	Total
11	Agriculture, foresterie, pêche et chasse	13 085			13 085
21	Extraction minière, du pértole et du gaz	314			314
22	Services publics	109			109
23	Construction	25 380			25380
31-33	Fabrication	14 986			14986
41	Commerce de gros		12 899		12899
44-45	Commerce de détail		26 989		26989
48-49	Transport et entreposage	11 177	855		12032
51	Édition (sauf Internet)	694			694
52	Industries du film et du vidéo	1 164			1 164
52	Finance et assurance			5 402	5 402
53	Industries de l'enregistrement sonore	143			143
53	Services immobiliers			7 864	7 864
54	Radiodiffusion et télédifusion	140			140
54	Services professionnels et scientifiques			21 252	21 252
55	Télévision payante et spécialisée	7			7
55	Gestion de sociétés et entreprises			1 742	1 742
56	Services administratifs, gestion des déchets, services d'assainissement	531	1	9 857	10 389
57	Télécommunications par fil	106			106
58	Télécommunications sans fil	51			51
60	Télécommunications par satellite	22			22
61	Services d'enseignement			2 172	2 172
62	Autres services de télécommunications	111			111
62	Soins de santé et assistance sociale		8 450	8 089	16 539
64	Traitement des données et hébergement de données			97	97
65	Autres services d'information			208	208

7



71 72	Arts, spectacles et loisirs Hébergement et services de restauration		3 278 17 431	1 296	4 574 17 431
81	Autres services publics (réparation automibiles, services nettoyage, organismes religieux, organismes de charité.				
91	Services funéraires, services de soins personnels, Administration publiques locales, provinciales et fédérales		14 818	7 668 1 550	22 486 1 550
	Total	68 020	84 721	67 197	219 938

SOURCE :

NOMBRE D'ENTREPRISES SELON LA TAILLE D'EMPLOI ET LE GROUPE D'INDUSTRIE POUR LE QUÉBEC, Décembre 2006

SOURCE : STATISTIQUE Canada, REGISTRE DES ENTREPRISES TRAITEMENT PAR L'INSTITUT DE LA STATISTIQUE DU QC.

• See the detail of the Manufacturing sector, page 36 from Québec Handy Numbers, Institut de la Statistique du Québec, Edition 2011.



8

ADDITIONALITY

Sector	Sub- Grou p EE	Sub- Group Waste	Comments about groups	Taxes (and specifically the carbon tax after January 2015)	Subsidies all project long	Test how to prove it (subsidies)	Owner /rental sites	Rental site; others comments	2008-2010 project acceptance	2010 and over	After 2010 new green building
Industrial, defined by the code SCIAN		IV	Defined very simply the variable which will adjust the economic al intensity and provide a specific benchmar	non additional	non additional, improve the ROI and reduce the payback and justified the project realization in a territory which energy cost	% of the PACC 2013-2020 allocated to this sector /% of their part in the Quebec PIB (300	By identifyin g who pays the energy, the waste and transport ation	Inside industrial condos, which cost and effort may be regrouped, how to act with this situation (sharing benefit between all users by square	Yes, with the new offsets rules defined in Quebec regulation (article 70.2) MDDEP will accept offsets from 2007	Vec	specific benchmark on new building ASHRAE 90.1 or PEBC done by MnM
Commercial, defined by the code SCIAN	1	V	k. Defined very simply the variable which will adjust the economic al intensity and provide a specific benchmar k.	non additional	non additional, improve the ROI and reduce the payback and justified the project realization in a territory which energy cost are very low.	G\$/year) % of the PACC 2013-2020 allocated to this sector /% of their part in the Quebec PIB (300 G\$/year)	By identifyin g who pays the energy, the waste and transport ation services.	meters??) Inside industrial condos, which cost and effort may be regrouped, how to act with this situation (sharing benefit between all users by square meters??)	Yes, with the new offsets rules defined in Quebec regulation (article 70.2) MDDEP will accept offsets from 2007	Yes	(Ottawa) specific benchmark on new building ASHRAE 90.1 or PEBC done by MnM (Ottawa)
Institutional, defined by the code SCIAN		VI	Defined very simply the variable which will adjust the economic al intensity and provide a specific benchmar k.	non additional	non additional, improve the ROI and reduce the payback and justified the project realization in a territory which energy cost are very low.	% of the PACC 2013-2020 allocated to this sector /% of their part in the Quebec PIB (300 G\$/year)	By identifyin g who pays the energy, the waste and transport ation services.	Inside industrial condos, which cost and effort may be regrouped, how to act with this situation (sharing benefit between all users by square meters??)	Yes, with the new offsets rules defined in Quebec regulation (article 70.2) MDDEP will accept offsets from 2007	Yes	specific benchmark on new building ASHRAE 90.1 or PEBC done by MnM (Ottawa)

Non additional, proved by the elasticity macro economic definition (example of France) and reference to actual discussion in Germany (Christophe journal les Échos). Same principle of the actual taxes applied on energy. Point Carbon in its edition of June 5th 2012. stated: Quebec premier unveils \$2.7 billion climate plan . SAN FRANCISCO, June 4 (Reuters Point Carbon) -- Quebec Premier Jean Charest released a climate change action plan for the Canadian province on Sunday that calls for \$2.7 billion (US \$2.6 billion) for greenhouse gas mitigation and adaptation programs through 2020 sourced from future carbon market revenues and energy taxes.



9

WASTE DIVERSION

		SC= Sustainable Community		
	Criteria	Large landfill ≥ 50 000TM/year	Small landfill in operation(no biogas capture); ≤ 50 000TM/an	Small landfill in operation(with biogas capture); ≤ 50 000TM/an
	Waste management regulation Quebec .			
	It seems to have 37 landfill sites in		Each of them will	
	Quebec (Source MDDEP 2010) . We will	Yes and up to date regulation May 2012. Each	have a SC account	Each of them will have a
	have the list of active landfill available for	landfill site will have a SC account link to their	link to their SC	SC account link to their
1	the VVB and maintain every year.	SC members of SC.	members of SC	SC members of SC
2	Indication of biogas recuperation activity	One by one, for each landfill we will determine their operation of the biogas recuperation and their final used (flaring or Energy recovery).	n.a.	One by one, for each landfill we will determine their operation of the biogas recuperation and their final used (flaring or Energy recovery).
			Monitor at each	
			ICI site members	Monitor at each ICI site
3	Diversion effects	Monitor at each ICI site members of SC	of SC	members of SC
4	Emission factors with VCS methodology	Defined subcategory by using ICF factors (EC 2005) with adjustment. Ref. page 92 ICF (french) without carbon sequestration.	same as large landfill	same as large landfill
5	Discount on the methodology parameters	plus 200% because of 3 reasons a) Performance of biogas recovery rate is changing from 50% up to 98%. Ref.; GHG Institute. B) the first and year two no biogas generation. It need up 1 to 2 years to start to produce biogas. Model Scholl Canyon. C) changing in behavior arriving upstream before sending waste to a bad bioreactor (landfill) even with biogas recuperation and EE.	n.a.	same as large landfill
		Waste sub-category ICF Factor* 200%= final	same as large	
6	Calculation	Em Factor	landfill	same as large landfill
7	Sub waste category	Organic matters (food wastes + yard trimming) , all paper types regrouped , cardboard, wood, wastewater treatment sludge. Evaluated another sub category for miscellaneous.	same as large landfill	same as large landfill
8	data collection	by volume and convert in kg (waste bins LIFT UP at ICI sites (ON THEIR INVOICE BILL)	by volume and convert in kg (waste bins LIFT UP at ICI sites (ON THEIR INVOICE BILL)	by volume and convert in kg (<i>waste bins LIFT UP at ICI sites (ON THEIR</i> INVOICE BILL)
9	Others comments	not at this time	not at this time	not at this time

SC= Sustainable Community

This approach will ensure no double accounting between our project and any project coming from protocol 2 of MDDEP regulation on PEDES. Mainly because the waste diverted by SC will not go to landfill and then will not generate methane.



APPENDIX 2

SAMPLE CONTRACT

PDF DOCUMENT ATTACHED