



Verified Carbon Standard

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



Document Prepared by the Quantification's team of WILL Solutions and its collaborators

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1 PROJECT DETAILS

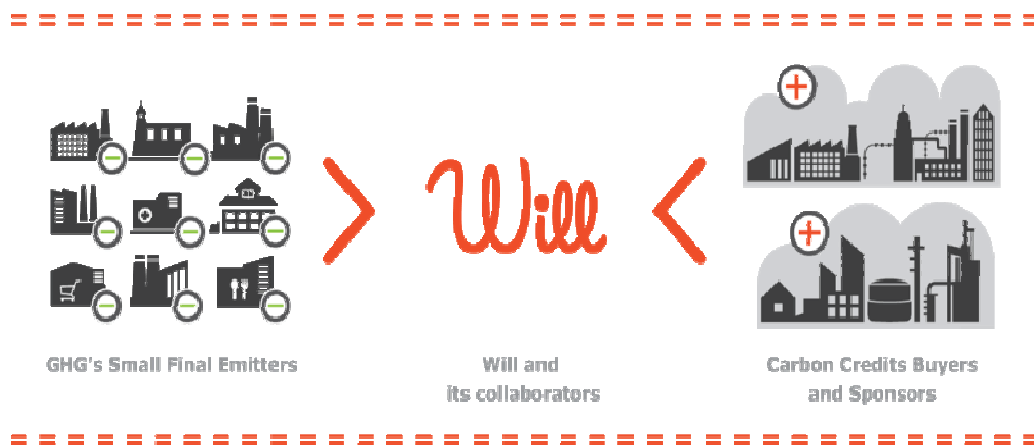
1.1 Summary Description of the Implementation Status of the Project

The Energy Efficiency and Solid Waste Diversion Activities within the Quebec Sustainable Community project document was prepared by Will Solutions Inc. to allow Will Solutions 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 (each one have $\leq 25\ 000\ tCO_2e$ of GHG emission /year/facility, Small Final Emitters -SFEs), part of the industrial, commercial or institutional (ICI) sector, and/or property of several and different owners and grouped together inside a "Sustainable Community" within a Territory.

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:

1. To gradually group together inside a "Sustainable Community within a Territory", up to 10,000 Clients Facilities, located inside the Province of Quebec, that will achieve together a potential $22\ 852\ 000\ tCO_2e$ of GHG emission reductions for the period 2010-2019;
2. 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;
3. To collect ground data in real time, and consequently, stimulate and enhance Industrial Commercial and Institutional (ICI) facilities for a better sustainable behaviour;
4. This approach stimulates and rewards all the small actions carried out by each of the ICI sites: to divert industrial and commercial waste from landfill, for a more efficient waste recovery and for increasing energy efficiency in buildings.

Will's Sustainable Community Solution



At the Sustainable Community Service Promoter (SCSP), the project is implemented since January 1st, 2010. At the Client Facility level, there are different situations: a majority of

Project Units/Project Activity Instances (PAI)/Business Units have adhered to the SC project and running Project Units/PAI. The efforts since de the beginning period was focus on converting these members and have them to have their Project Units/PAI recorded into the project. For a portion of Client Facility, PAI are on their way, whether at the conception and development or at early implementation. The group approach requires progressive phasing of the PAIs, and the future monitoring report will take into account all the new PAIs which will be integrated into the SC between the time of the first verification and the following ones. This quantification report will be the penultimate before the renewal of the PD (Project Document) for another 10 years (2020-2029). The total GHG emission reductions for the 820 PAIs actives under the period starting 1er January 2017 up to December 31th, 2018 included in this Monitoring Report are 1 009 875 tCO₂e. That represents a yearly average of ≈ 616 tCO₂e /per PAI.

1.2 Sectoral Scope and Project Type

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

1.3 Project Proponent

Will Solutions is the unique project proponent of this grouped project.

Organization name	<i>WILL Solutions Inc.(WSI or WILL)</i>
Contact person	<i>Martin Clermont</i>
Title	<i>President, Founder, Professional Engineer and carbon expert.</i>
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1.4 Other Entities Involved in the Project

Organization name	<i>Certi Conseil</i>
Role in the Project	<i>Special advisor and internal validator as QA/QC of the WSI internal quality program</i>
Contact person	<i>Mr. Christophe Kaestli</i>
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1.5 Project Start Date

The project starting date is January 1st 2010.

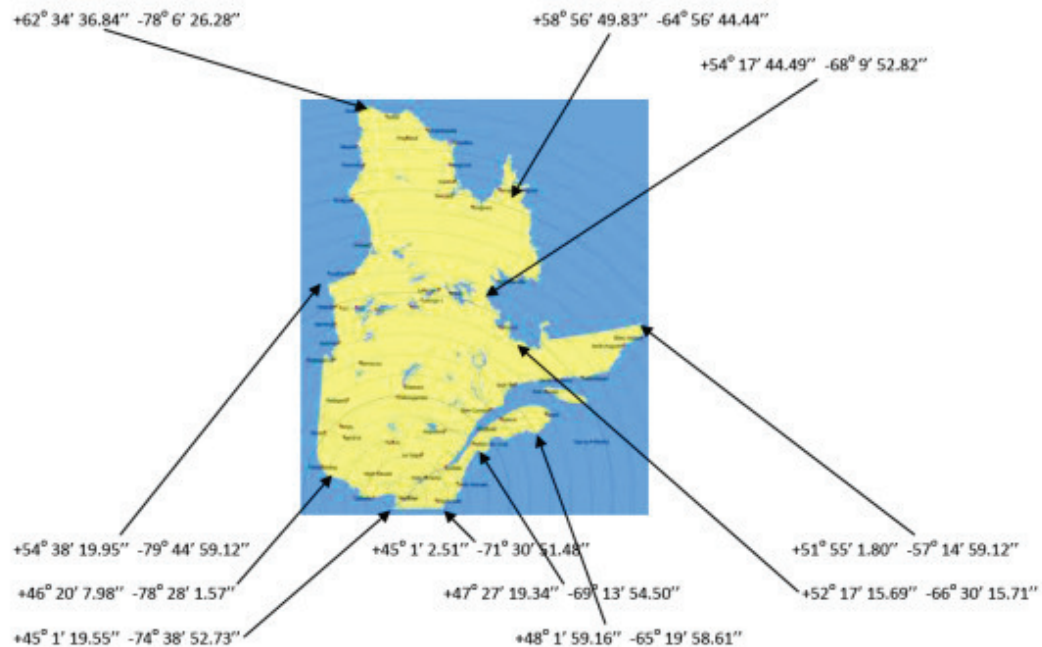
1.6 Project Crediting Period

The project crediting period is 10 years, renewable for 10 years. The starting date is January 1st 2010 and will end December 31rd 2019, renewable for another 10 years from January first 2020 up to December 31, 2029.

1.7 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. The 11 geodesic coordinates of the map represent the limit of the polygon covering the territory of the Province of Quebec. Each of the 84 Clients facilities declared on this monitoring report which are supporting all 820 PAI, are all located inside this polygon. Refer to the Appendix C 2 for the specific geodetic coordinates of each Client Facility.



1.8 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 referenced VM0018. This methodology was developed by Will Solutions Inc. (formerly named Gedden) under the VCS program and it was certified and released in February 2012.

1.9 Participation under other GHG Programs

Not applicable. Will Solutions, the project proponent, does not participate to any other GHG Programs neither regulated nor voluntary; Will Solutions is only active on the VCS program. Will Solutions, the project proponent, does not participate and does not intend to participate into the Quebec regulated market, as named the SPEDE¹, and neither to the WCI.

The Québec's Cap-and-Trade System for GHG allowances, an Emission Trading System (ETS) will be named in this monitoring report by its French acronym (RSPEDE). Extract from the technical Quebec overview² there is the scope of the RSPEDE:

«Since the start of the first compliance period on January 1st, 2013, persons and/or municipalities that operate any facility whose annual GHG emissions (excluding CO₂ emissions related to the combustion of biomass) are greater than or equal to 25 kt of

¹Web governmental reference to the SPEDE <http://www.mddelcc.gouv.qc.ca/changements/carbone/documents-spede/in-brief.pdf>

²Technical Overview of the Québec's Cap-and-Trade, page 7.
<http://www.mddelcc.gouv.qc.ca/changements/carbone/documents-spede/technical-overview.pdf>

equivalent CO₂ (kt CO₂ eq.) have been regulated by the C&T system». They are an estimated 80 facilities regulated under this regulation.

« And as of January 1, 2015 (beginning of the second compliance period), any person or municipality that distributes in Québec fossil fuels whose combustion meets or exceeds the annual GHG emission threshold of 25 kt CO₂ eq. is also covered by the C&T system, thereby encompassing almost 85 % of Québec's GHG emissions ». These fossil fuel distributor regulated under this RSPEDE are estimated at around 40 entities.

Furthermore, the project proponent took a conservative approach by excluding all grid electricity claims (scope 2 as defined by energy indirect GHG³) from all the 820 PAI of this Monitoring report, from the period starting January First 2017 up to December 31th, 2018.

1.10 Other Forms of Credit

During the period (2017-2018) the project proponent, Will Solutions, received no other forms of environmental credit (EC). The GHG reductions quantified in this Monitoring Report are not link to any of the 80 regulated facilities having ≥ 25 kt of equivalent CO₂ and not link to any of the 40 entities acting as distributor of fossil fuel involved in the RSPEDE (as a carbon trading program) and the project reductions have not been used for compliance under such programs or mechanisms.

1.11 Sustainable Development

The Sustainable Community Solution (SC) developed by Will Solutions, boosts and rewards active and inclusive participation in the circular economy as well as the positive economy. The SC solution is primarily focused on reducing the "Demand side". The monetization, on the voluntary carbon market, of conscious efforts to reduce energy consumption and virgin resources reconfirms the close relationship between Development, Environment and Humanity.

The SC solution also enhances conscious human gesture, prioritizing the behavioral change that guides the selection and integration of green technologies. The SC solution plays a catalyst role in achieving these objectives and in several sustainable development goals (SDGs) of the United Nations (UN) in particular the SDG, 9, 11, 13 and 17, see more on the following post on LinkedIn: <https://www.linkedin.com/pulse/sustainable-community-solution-catalyst-17-sdgs-martin-clermont?published=t> . The social impact, in another word, the participation of all 84 clients facilities (all citizens of the municipalities participating, all SME's employees participating and theirs customers, represents around 9,05% of the Quebec population. See the details in appendix B.

³Scope 2 is also referred to Energy Indirect GHG and is defined as 'emissions from the consumption of purchased electricity, steam, or other sources of energy (e.g. chilled water) generated upstream from the organization'.

Will Solutions Inc. (WSI or WILL), the project proponent, is a certified B Corp private company, is acting as a social entrepreneur, and its' engagement is to provide the best business solutions and business models that measure the environmental performance of each individual, citizen, company and community and rewards those who are advocate to sustainable development. Will is carbon neutral since 2007 and is committed to return 10% of his net benefit to community projects and initiatives supporting sustainable development. WSI is convinced that this action matches circular and positive economy concepts.

WILL, as the project proponent, was directly affected by the COVID-19 health crisis (from the beginning of March 2020 up to now). WILL made a corporate decision, with all due respect to our team of auditors, collaborators, members of our project, our VVB and other stakeholders, with the VCS program approval, to carry out this 4th verification in desk review mode with our VVB.

WILL has also decided to postpone the renewal of our project document (PD), for another period of 10 years (January 1st, 2020 to December 31, 2029) which was scheduled to be done for this summer concomitant with our 4th verification audit. We plan file this renewal for third party validation (VVB) in early 2021, hoping that we have never a second wave of this micro virus. We plan use the year 2019 as the baseline scenario for this renewal and we plan to combine our 5th verification for the civil 2019 year with this renewal.

We are studying and plan, over the period of this renewal (2020-2030), to amend the VM0018 methodology in order to include the reduction of GHGs linked to sustainable mobility micro-projects (sectoral scope 7) which will include generic PAIs, with always the building as the perimeter for calculating eligible reductions. These generic PAIs might include behavioral changes, sharing and participative business models and the conversion of all vehicles to electric vehicles powered by renewable, non-fossil fuels.

In parallel, we have initiated in mid-2019 (with a network of researchers from 5 Canadian universities and two technological partners) a project, to automate our traceability platform which is operated in cloud mode, in order to include technologies elements of IoT, AI and Block Chain. This automation, in addition to the reliability and the reduction of errors in handling the collected data (the evidences) from all our clients facilities and theirs PAIs (data which represented only in our third cohort over 10 000 evidences +photos, and videos for ≈ 100 000 pages of different types of documents as we named big data), will allow to group 20 times more members, up to 2 000.

These members might operate around 12 000 buildings in the same cluster. It will be then possible to complete a cohort of verification over a 12 months period, instead of 30 months, which will makes possible to address differently the issue of overlapping periods of the Monitoring Reports under the VCS program.

2 SAFEGUARDS

2.1 No Net Harm

Will Solutions Inc. (WILL) as project proponent, is not in charge of doing or realizing any physical sustainable project activity instances (PAI) on behalf of its members. At the contrary, WSI is mutualizing all the GHG eligible reductions efforts done by each the members of its Sustainable Community project in view to convert them into VCU, sale them and return a minimum of 40% of the gross sales to each members to the extent of each of its GHG reduction efforts. WSI is mutualizing the expertise and the monetization's costs to democratize the participation of all stakeholders of the civil society to tackle the climate issue.

WILL is carefully selecting each project activity instance (PAI) of all new members of SC, which have to respect any environmental regulations. Regrouping all these eligible PAI, mainly on remote area, the SC project is then creating strong benefit socio-economic impacts by **rewarding** economically SME projects directly as well as municipalities focused on Sustainable Development (SD) and well aligned with the 17 Sustainable Development Goal (SDG) of the United Nations.

WILL Solutions (WILL), (the SCPP) is a certified B Corp since March 2019⁴. Since 2018 WILL implemented a Sustainability Plan and produced a yearly report in a base of a continuous improvement on its ecological footprint. The latest report (May 2020) described the carbon footprint of all corporate activity since 2007⁵. WILL bought carbon offset and then is carboneutral since 2007. Will is an active member, since February 2020 of the group of over 700 B Corp committed to netzero 2030⁶.

2.1 Local Stakeholder Consultation

The project got all local and regional stakeholders support required to the Project as mentioned into the Project Document already validated. Furthermore WSI as project proponent continues adhere several new community supports, including NGOs, such as the **Reseau SADC**, having mission to facilitate the microfinancing (with sustainability consideration) to small and medium enterprises (SME) and municipalities in remote area and recruiting their customer (more than 10 000 SME and municipalities), as new member of the Sustainable Community project.

Knowing directly their customer and their sustainable projects (on energy consumption and waste diversion), they facilitate their recruitment as new member of the Sustainable Community project and in particular to the one having a sensibility to act now on sustainable development. To see more information about the Reseau SADC: <http://www.sadc-cae.ca/index.php/en/the-reseau/mission.html> . Several post are available

⁴B Corp link <https://bcorporation.net/directory/solutions-will>

⁵Link to the latest version released on 2020 <https://www.solutionswill.com/wp-content/uploads/2019/12/SD-Plan-Update-2019.pdf>

⁶<https://www.bcorpclimatecollective.org/net-zero-2030>

on SME impact and on the LinkedIn account of the project proponent <https://www.linkedin.com/company/will-solutions>

WILL as the project proponent, maintained ongoing communication, with its entire project stakeholder: such as the social development partners, collaborators, governments, members (clients facilities) and buyers of the VCU. Will has implemented a corporate sustainable plan in 2018⁷ and produced a yearly report to benchmark its performance. Under this latest report Will sustainable report⁸ (March 2020), Will has realized, over 80 communications, about promoting sustainability through its web site, blogs and social network (LinkedIn, Facebook, Twitter and Instagram) and through webinars, conferences and meetings to promote GHG reduction projects and communicate the ongoing status the project.

2.2 AFOLU-Specific Safeguards

n.a.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity includes a total of 9 Generic PAI types. These Generic PAI types allow for the additionality analysis of the new PAIs of this monitoring report, which are described the 84 Client's facilities in the Table 2. The 84 client facilities and 820 specific PAIs fall into one or more of these 9 Generic PAIs. These Generic PAI types are as follows:

Table 1

Generic PAI Reference Number			
	Generic PAI (no new Generic PAI on this second monitoring report)	Generic PAI EE	Generic PAI WM
I	Biomass Energy Project	√	
II	Methane Emission Avoidance		√
III	Torrified Biomass Combustible		√
IV	Saving Energy on Recycling Activities	√	
V	Heat Recovery	√	
VI			
VII	Energy Efficiency Demand Side	√	
VIII	Fuel Switching	√	
IX	Energy Conservation	√	
X	Energy efficiency demand side New buildings/major renovations	√	
	Total	7	2

⁷https://www.solutionswill.com/wp-content/uploads/2014/01/plan_dddesign.pdf

¹include our latest update Sustainability report <https://www.solutionswill.com/wp-content/uploads/2019/12/SD-Plan-Update-2019.pdf>

3.2 Deviations

3.2.1 Methodology Deviations

There is no deviation to methodology

3.2.2 Project Description Deviations

There is no deviation to the project description (PD). The definition of the scope of SPEDE, and its phase 1 and 2 are explained in the section 1.9 and in the Appendix A

3.3 Grouped Projects

There were a number of new additions to the Generic PAIs in the SC project. **The Table 2** lists the new occurrences and confirms the eligibility of each additional PAI.

The additionally, at the project proponent level, was demonstrated, at the satisfaction of the VVB, as per, namely, *Combined tool to identify the baseline scenario and demonstrate additionality* (Version 05.0.0 of the CMD) as requested by the VM0018. The group project (cluster) is additional and is still be a first of its kind, around the world. In addition, as per CDM, Combined Tool to Identify the Baseline Scenario and Demonstrate Additionality and validated by the VVB in July 2013, the additionality of every Generic PAI has been demonstrated and approved. Furthermore, without cost' sharing regrouping all Clients facilities and without the Business model of the project proponent, it will be definitively impossible to bring any of their eligible GHG emission reductions to voluntary market. It is simply not affordable to consider going Client facilities individually for each of their different PAI.

Each individual PAI, once found eligible is associated to the relevant Generic PAIs: the project proponent has established a list of 9 generic PAI, which were validated by the VVB in the first monitoring report of February 2014, to classified activities. These Generic PAI cover the different micro project (PAI) which Will (project proponent) wants to make adhere to its Sustainable Community Project.

The Generic Projects Activity Instance (PAI) have processes/outcomes which overpass business as usual (BAU) practices and defines more efficient ways compared to common practices. On this basis, and as per CDM additionality guideline, the VVB has confirmed the additionality of each Generic PAI. Any new PAI, regrouped in the Sustainable Community group project method is recognized to be additional if it meets the eligibility criteria.

Table 2: Sustainable Community new PAI: Classification and their eligibility

January First 2017 up to December 31th 2018

New PAI: Classification, Eligibility and attributes Compliance								
Clients facility	New PAI scope 3	New PAI scope 13	Located inside the Quebec territory	Be quantified after January First 2010	Be registered member of the SCS project	Having a similar or using a similar technologies, measures or practices as the Generic PAI based on scope 3 and 13	Be auditable and verifiable	Project Unit GHG reduction are inferior to 5 000 tCO ₂ e/year
84 Client's facility part of former MR	26	0	√	√	√	√	√	√
Total	26	0	√	√	√	√	√	√
								26

The details by client facility is available on Appendix B

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

All monitored data available at validation and used to quantify the eligible GHG emissions reductions for each PAI in this monitoring report were supported by evidence, available to the VVB. A technical data sheet (quantification sheet) for each Clients facility participating to this monitoring report was used and the reductions quantifications (baseline, project and emissions reduction) was agglomerated and summarized in the Appendix C. Each generic PAI (Table 3) and each new PAI associated to generic PAI are monitored specifically as described in Appendix E

4.2 Data and Parameters Monitored

All monitored data used to quantify the eligible GHG emissions reductions for each PAI in this monitoring report were supported by evidence, available to the VVB. A technical data sheet (quantification sheet) for each Clients facility participating to this monitoring report was used and summarized in the Appendix C. Each generic PAI and each new PAI associated to generic PAI are monitored specifically as described in Appendix E

4.3 Monitoring Plan

The monitoring plan was applied to all Project Units is the same as described in the three latest monitoring report which were verified and dated on: February 2014, November 2017 and July 2019. Furthermore, the first, second and third verification report was reviewed, controlled and accepted by the VCS program staff. In addition a Quality Control of the data was 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 analyzed as well as potential impact on related Project Units;

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emissions (BE_y , in tCO₂e) of all PAI are the summation for each PAI of the product of the baseline emissions factor (EF_3 , in tCO₂/unit of fossil fuel and EF_{13} tCO₂/Mt of waste stream) and the fossil fuel consumption (FF) used before project and the waste stream (WS) before its diversion from landfill management.

$$BE_y = FF_{BL} * EF_3 \text{ (sectoral scope 3)}$$

$$BE_y = WS_{BL} * EF_{13} \text{ (sectoral scope 13)}$$

$FF_{BL,y}$ = Volume of fossil fuel

$WS_{BL,y}$ = Volume of waste stream

EF_3 = CO₂e emission factor of the fossil fuel

EF_{13} = CO₂e emission factor of the waste stream and taking into account the different management scenario, at landfill, regarding the flaring or no flaring of the methane (biogas) and/or its use or not for energy recovery.

For this fourth monitoring report, each Client Facility members of the Sustainable Community projects have a specific data sheet for their quantification of their eligible PAIs which is summarized and available in Appendix C. On this specific data sheet, and for each PAI involved on this report, the specific BE, EF and their calculations are detailed by vintage. Relevant information's, to complement these calculations, are available when applying in this specific data sheet.

A summarized data sheet regrouped the summation of all their baseline emissions of GHG per territory of group of Client facility and is available in Appendix B.

5.2 Project Emissions

The Project Emissions (PE_y , in tCO₂e) of all PAI are the summation for each PAI of the product of the project emission factor (EF_3 , in tCO₂/unit of fossil fuel and EF_{13} tCO₂/Mt of waste stream) and the fossil fuel consumption (FF) used by the project and the (WS) management by the reuse, the recycling or the composting of the waste stream (WS).

$$PE_y = FF_p * EF_3 \text{ (sectoral scope 3)}$$

$$PE_y = WS_p * EF_{13} \text{ (sectoral scope 13)}$$

$FF_{p,y}$ = Volume of fossil fuel

- WS_{P,y}** = Volume of waste stream
EF₃ = CO₂e emission factor of the fossil fuel
EF₁₃ = CO₂e emission factor of the waste stream and taking into account the different management scenario, at landfill, regarding the flaring or no flaring of the methane (biogas) and/or its use or not for energy recovery.

For this fourth monitoring report, each Client Facility members of the Sustainable Community projects have a specific data sheet for their quantification of their eligible PAIs which is summarized and available in Appendix C. On this specific data sheet, and for each PAI involved on this report, the specific PE, EF and their calculations are detailed by vintage. Relevant information's, to complement these calculations, are available when applying in this specific data sheet.

A summarized data sheet regrouped the summation of all their projects emissions of GHG per territory of group of client facility and is available in Appendix B.

5.3 Leakage

At Project Unit level, the leakage, during period January First 2017 – December 31th, 2018, is de minimus, thus LE_y=0.

5.4 Net GHG Emission Reductions and Removals

The Emission Reduction is calculated by subtracting the Project Emissions from Baseline Emissions.

Thus $ER_y = BE_y - PE_y - LE_y$

The net GHG Emission Reductions of the Sustainable Community project are as follows:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2017	545 283	0	<i>De minimus</i>	545 283
2018	464 591	0	<i>De minimus</i>	464 591
Total	1 009 875	0	<i>De minimus</i>	1 009 875

The 1 009 875 tCO₂e representing the net GHG emission reduction of the year 2017 and 2018 and written in the top Table included the net GHG emissions reductions (all from sectorial scope 13) realized after January First, 2017. The amount of the net GHG emissions reductions from sectorial scope 3 and realized after January First, 2017 represents 382 998 tCO₂e is not included in the top Table and this latest amount will not be serialized under the VCS program. The details is available on Appendix A

The net GHG emissions reductions quantified, from the period January 1st 2013 up to December 31th 2016, were realized under the validate project document at the time the VCS program did not have in place a disposition regarding overlapping period for monitoring reports as described in its version v4.0⁹, issued on September 19th 2019, in the section 3.4.4 of its program. The amount of these verified GHG's reductions represents 323 232 tCO₂e. This amount is excluded of this monitoring report and will not be serialized under the VCS program. The details is available on Appendix D

⁹Reference https://verra.org/wp-content/uploads/2020/03/VCS-Standard-v4.0_Updated.pdf