

# Energy Efficiency Program – Energy Audit and Implementation

Participant's Guide

**Business and Major Commercial, Industrial and Institutional Markets** 

**Energy Management System Grant** 

October 1<sup>st</sup>, 2019 (Revised November 1<sup>st</sup>, 2023)



# Imagining energy differently

As part of its Global Energy Efficiency Plan, Énergir offers its customers grants through its energy efficiency programs. These are aimed at helping them consume less energy and make better use of it, particularly by improving their energy productivity with natural gas.

This Participant's Guide is for customers seeking a grant to implement an energy management system. It outlines the procedures and eligibility criteria.

Énergir encourages participants to submit their applications and the supporting documents electronically, or to submit an administrative information request for file tracking to: <a href="mailto:efficaciteenergetique@energir.com">efficaciteenergetique@energir.com</a>.

#### For more information, please consult:

- Your Énergir advisor or representative
- Engineers in Énergir's DATECH group
- Énergir's web page



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## **Definitions**

Below are the definitions of various terms used in this guide.

**Energy performance indicator (EPI):** Information used to assess a company's energy performance with regard to natural gas.

Continuous measurement: This type of measurement requires the installation of permanent equipment to better assess the natural gas consumption of the entire plant or part of the plant through regular monitoring. Tools must also be implemented to store data resulting from continuous measurement and convert it into useful information. The term "energy management information system (EMIS)" is sometimes used to refer to continuous measurement.

**Benchmark scenario:** The benchmark scenario corresponds to the existing situation before efficiency measures were implemented, if that situation could be maintained.

In the event that the existing situation cannot be maintained (e.g. equipment or systems reaching the end of their life or that need to be replaced) or in the case of a new construction or installation, the benchmark scenario corresponds to the equipment or system that could have been installed in accordance with current energy market practices.

**Efficient scenario:** This scenario includes energy efficiency measures and is the subject of the financial assistance application.

**Energy management system (EMS):** This is a continuous improvement process aimed at setting energy savings targets and measures, including steps for implementing and monitoring those measures through methods such as continuous measurement.

**Significant energy use (SEU):** This is a mode or type of energy use (e.g. a process, machine or auxiliary system) that accounts for a significant portion of natural gas consumption or has considerable potential to improve the energy performance of natural gas.

<sup>4</sup> The participation conditions have been in effect since October 1<sup>st</sup>, 2019, and has been revised on November 1<sup>st</sup>, 2023. However, Énergir reserves the right to modify or terminate the program at any time without prior notice. Énergir also reserves the right to interpret the terms and conditions of the financial assistance grant.



## **Description and objectives**

Implementing an energy management system (EMS) allows for energy savings through behavioral and operational changes at all levels of an organization, from senior management to staff on the floor. Over time, it transforms the very culture of the organization with regard to reducing energy waste and energy intensity.

Énergir wishes to support its commercial, industrial, and institutional customers who decide to implement an EMS, not only by offering financial assistance, but also by providing technical support through its sales representatives and its DATECH group engineers. The main purpose of the technical support provided by Énergir is to identify solutions to specific problems at a stage considered critical by customers. Thanks to its participation at all stages of implementing an EMS project, Énergir ensures that its customers successfully implement it.

#### Five phases of implementing an EMS

The technical support and financial assistance provided by Énergir under the EMS Grant are broken down into five key phases. Table 1 summarizes the type of support Énergir provides at each stage of implementing an EMS. The terms and conditions for financial assistance for Énergir's EMS Grant are described in the following sections.



Table 1: Key phases and support provided by Énergir under the EMS Grant

Key phases	Technical support	Financial assistance <sup>1</sup>
Customer awareness-raising: Present the scope and benefits of an EMS and Énergir's services.	~	N/A
Audit: Review current energy management practices and recommend solutions.	~	\$25,000 <sup>2</sup>
Commitment decision: Obtain the commitment of senior management to develop, implement and monitor the EMS.	~	N/A
Development and implementation of the EMS: Establish an action plan for the implementation of the EMS, including a strategy for continuous measurement and for the deployment of energy savings measures; implement the EMS action plan and monitor planned measures.	~	\$150,000 <sup>2</sup>
Monitoring energy savings: Periodically perform the necessary analysis to quantify the energy savings associated with the EMS.	<b>~</b>	\$175,000 <sup>3</sup>

<sup>&</sup>lt;sup>1</sup> Maximum financial assistance

<sup>&</sup>lt;sup>2</sup> Up to 50% of eligible costs.

<sup>&</sup>lt;sup>3</sup> \$0.10/m<sup>3</sup> of natural gas saved over four years.

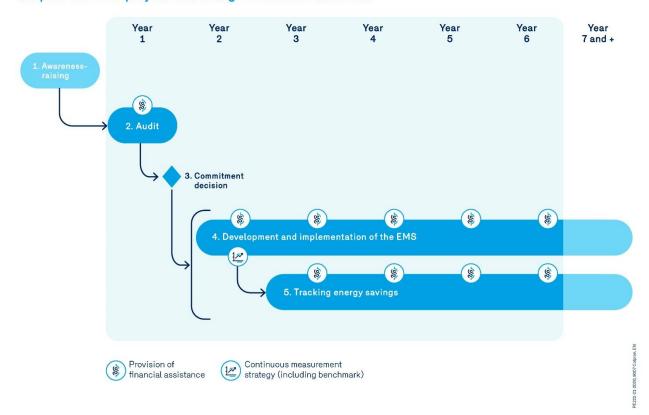
<sup>6</sup> The participation conditions have been in effect since October 1st, 2019, and has been revised on November 1st, 2023. However, Énergir reserves the right to modify or terminate the program at any time without prior notice. Énergir also reserves the right to interpret the terms and conditions of the financial assistance grant.



The diagram below illustrates over time the various phases of an EMS project and the key moments when Énergir will provide financial assistance to participating commercial, industrial and/or institutional customers.

#### Diagram 1 - Phases of an EMS project and Énergir financial assistance

### Steps in an EMS project and Énergir financial assistance



# Special clause

Énergir's EMS Grant is currently being offered as part of a pilot project. Énergir reserves the right to modify or terminate the program at any time without prior notice. However, all applications for participation previously accepted by Énergir before the end of the grant will be processed.

Énergir reserves the right to interpret the terms of the grant, taking into account any conditions that may be established by the Régie de l'énergie.

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# Eligibility criteria

- The applicant must be an Énergir customer or be in the process of becoming one.
- The financial assistance is intended for commercial, industrial or institutional buildings.
- The financial assistance is for owners of buildings or groups of buildings with a natural gas
  consumption of at least 2,000,000 m³ per year. With Énergir's exclusive approval, some buildings with
  an annual natural gas consumption of less than 2,000,000 m³ may be eligible.
- Measures aimed at replacing one energy source with another are excluded.
- Rate optimization measures are not eligible.
- Measures eligible for other grants of Énergir's existing energy efficiency programs are excluded from the EMS Grant.
- All phases of the grant must comply with the standards and regulations in effect.
- The financial assistance application must be submitted prior to the completion of the work and the related forms must be duly completed and compliant.



## **Description of phases**

## Phase 1 - Awareness-raising

This first phase of an EMS project gives Énergir the opportunity to explain the scope and benefits of such a system and the types of financial and technical support it offers participating customers. During this phase, Énergir also provides technical support.

To begin the process of participating in this grant, customers must complete the **Notice of Interest**, in which they inform Énergir of their intention to participate in the EMS Grant.

#### Phase 2 - Audit

### Objective and scope

The audit phase aims to:

- 1. Paint a picture of the natural gas consumption of the participating customer's facilities
- 2. Review current energy management practices to identify and improve strengths and weaknesses
- 3. Establish an **overview** of the continuous measurement strategy and method for estimating energy savings
- 4. Provide a **summary** of potential natural gas savings and natural gas savings measures associated with an EMS, primarily aimed at improving operations
- 5. Develop an **outline** of the EMS implementation of improvement plan, a timeline and the costs associated with its development, implementation and follow-up

Note: Participation in the audit phase is not required to obtain financial assistance from Énergir related to the development and implementation of an EMS or to monitor energy savings associated with the system. However, applicants will need to demonstrate that they have all the information indicated in **Appendix A** of this guide.

#### Financial assistance

The financial assistance offered by Énergir and granted in a single payment covers part of the cost of the audit phase. It corresponds to the lesser of the following amounts:

- \$25,000;
- 50% of eligible expenses.

## Eligible expenses

Eligible expenses may include fees charged by external consultants and internal specialists, as well as the costs of purchasing and installing equipment required to complete this phase.

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## Steps of the audit phase

Table 2: Steps of the audit phase

Steps	Description of steps
1. Financial assistance application	<ul> <li>Participating customers apply for financial assistance from Énergir by completing the Request for eligibility (Form I), which is available on Énergir's website.</li> <li>This application must be accompanied by the external service proposal for performing the audit, if applicable. This service proposal must contain, but is not limited to: the scope of the mandate, the names of participants in the audit phase and their roles, and a breakdown of their fees (e.g. hourly rate, tasks, number of hours).</li> <li>Énergir does not impose a standard format on external firms or participating customers for the audit phase report. However, it must contain the information set out in Appendix A.</li> <li>By submitting the application, the customer declares to have been made aware of the eligibility criteria for the EMS Grant.</li> </ul>
2. Analysis of the financial assistance application	<ul> <li>Énergir analyzes the financial assistance application based on the eligibility criteria, objectives and scope of the audit phase.</li> <li>Énergir confirms in writing the acceptance or refusal of financial assistance, the amount granted, the maximum timeframe and a reminder of the conditions for performing the work at this stage.</li> <li>The customer gives their consent to Énergir to ask them or the external firm to provide details as to the content of the documents submitted and/or to make changes to them.</li> </ul>
3. Execution of the work	From the date Énergir agrees to provide financial assistance, the customer has six (6) months to complete the audit phase. <sup>4</sup>
4. Presentation of the report	The participating customer submits a draft of the audit phase report to Énergir <b>before</b> applying for financial assistance and gives their consent to Énergir asking them or the external firm to provide details as to the content of the audit and/or to make changes to it.
5. Financial assistance payment	<ul> <li>As soon as Énergir deems the diagnosis report satisfactory, the participating customer can submit the <u>Detailed list of eligible costs and request for payment (Form II)</u> for the audit, which is available on Énergir's website.</li> <li>The form must be accompanied by the following documents: <ul> <li>The final version of the audit report</li> <li>If applicable, a copy of the invoice given to the customer by the external firm, indicating the total cost of the audit phase plus applicable taxes (GST and QST)</li> <li>An invoice submitted by the applicant to Énergir to claim the amount of financial assistance, as well as applicable taxes (GST and QST)</li> </ul> </li> <li>Applicants are invited to consult Appendix D in this guide for the treatment of applicable taxes.</li> </ul>

<sup>&</sup>lt;sup>4</sup> Important: In the event that this deadline cannot be met, the customer should notify Énergir as soon as possible. After this sixmonth period, Énergir reserves the right to refuse the financial assistance payment for the audit phase.

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#### Phase 3 - Commitment decision

During the third phase, the participating customer obtains a commitment from the senior management of their company to develop, implement and monitor the EMS.

During this phase, Énergir can only provide technical support to participating customers, so as to help them convince their superiors of the merits of implementing such a system in their organization.

## Phase 4 – Development and implementation of the EMS

#### **Objective and scope**

This phase aims to:

- Develop and deploy an action plan for implementing EMS improvements (e.g. creating an energy management committee) and energy savings measures aimed primarily at improving operations (e.g. training and awareness-raising activities for employees explaining the energy impact of their measures).
- Establish and implement a continuous measurement (including the benchmark scenario) and data collection strategy for EPIs, as well as a method of assessing energy savings from the use of natural gas.
- 3. Track measures planned as part of the EMS



#### Financial assistance

Financial assistance is divided into two parts: the first is for continuous measurement and the second is for the other EMS Grants.

	al assistance offered as part of implementation phase
Continuous measurement	Other EMS Grants
<ul> <li>The financial assistance offered by Énergir corresponds to the lesser of the following amounts:         <ul> <li>\$75,000</li> <li>50% of eligible expenses</li> </ul> </li> <li>Financial assistance payments can be made over a maximum period of 5 years.</li> </ul>	The financial assistance offered by Énergir corresponds to the lesser of the following amounts:  \$\( \)\$ \$75,000  \$\( \)\$ 50% of eligible expenses  Financial assistance payments are made as follows:  \$\( \)\$ First payment for the first year: 50% of eligible costs up to \$50,000  Four (4) other annual payments: 50% of eligible costs up to the maximum amount of \$75,000

## Eligible expenses

Below are the eligible expenses for the development and implementation phase:

Table 4: Description of eligible expenses	
Continuous measurement	Other EMS Grants
<ul> <li>Cost of purchasing, installing and commissioning (by internal and external specialists) continuous measurement equipment related to natural gas consumption.</li> <li>Cost of purchasing, installing and commissioning (by internal and external specialists) the tools required to store measurement data and convert it into information.</li> </ul>	<ul> <li>Costs related to internal specialists (including the energy manager and other members of the energy committee) responsible for the development, implementation and improvement of the EMS (number of hours and hourly rates).</li> <li>Costs of consulting services to institute energy management within the company and to ensure that the company's specialists truly take charge of EMS-related activities.</li> <li>Costs associated with the ISO 50001 certification process, if applicable.</li> </ul>

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## Steps of the EMS development and implementation phase

Table 5: Steps of the EMS development and implementation phase

Steps	Description of steps
1. Financial assistance application	<ul> <li>The participating customer applies for financial assistance from Énergir by completing the Request for eligibility (Form I), which is available on Énergir's website, or by updating it, if applicable. This form is available on our dedicated website.</li> <li>This request must be accompanied by the audit phase report or documents containing the information set out in Appendix A.</li> <li>By submitting the application, the customer declares to have been made aware of the eligibility criteria for the EMS Grant and formally commits to investing the resources necessary to implement the EMS.</li> </ul>
2. Analysis of the financial assistance application	<ul> <li>Énergir analyzes the financial assistance application based on the following:         <ul> <li>Compliance with the above eligibility criteria</li> <li>Proper completion of the audit phase</li> <li>Customer's commitment to implementing an EMS approach</li> <li>Accuracy and relevance of the information provided by the customer in the forms submitted</li> </ul> </li> <li>Énergir confirms in writing the acceptance (or refusal) of financial assistance, the amount granted, the maximum timeframe for execution and a reminder of the conditions for performing the work at this stage.</li> <li>The customer gives their consent to Énergir to ask them or the external firm hired to provide details as to the content of the documents submitted and/or to make changes to them.</li> </ul>
3. Execution of planned work	<ul> <li>As of the date Énergir agrees to provide financial assistance, the customer begins the work planned.</li> <li>Énergir will communicate with the participating customer periodically to ensure that the project is carried out properly and to determine the technical support it can offer. In addition, Énergir will participate in at least one meeting per year of the customer's energy committee.</li> </ul>
4. Presentation of deliverables	<ul> <li>The participating customer submits the following deliverables to Énergir before applying for financial assistance for the development and implementation phase for each year of the project, if applicable:         <ul> <li>Report presenting the various items in Appendix B, or documents containing the information set out in Appendix B.</li> <li>The report or written confirmation of the commissioning of continuous measurement equipment. An example of the contents of the report is presented in Appendix C.</li> <li>Reports of all energy committee meetings held during the year for all the years in which the development and implementation phase continues.</li> </ul> </li> <li>The participating customer gives their consent to Énergir to ask them to provide details as to the content of the deliverables and/or to make changes to them.</li> <li>From the date Énergir agrees to provide financial assistance, the customer has a maximum of eighteen (18) months to present the deliverables or an update of them.</li> </ul>

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Steps	Description of steps
5. Financial assistance payment	<ul> <li>As soon as Énergir deems the deliverables satisfactory, the participating customer can submit the <u>Detailed list of eligible costs and request for payment (Form II)</u>, which is available on Énergir's website, for the development and implementation phase.</li> <li>The form must be accompanied by the following documents:         <ul> <li>The final version of the report presenting the various items in Appendix B or documents containing the information set out in Appendix B.</li> <li>If applicable, a copy of the invoice given to the customer by the external firm, indicating the total cost of services rendered plus applicable taxes (GST and QST). These services include, among other things, the purchase and installation of continuous measurement equipment and the tools required to store measurement data and convert it into information.</li> <li>An invoice submitted by the applicant to Énergir to claim the amount of financial assistance, as well as applicable taxes (GST and QST)</li> </ul> </li> <li>Applicants are invited to consult Appendix D for the treatment of applicable taxes.</li> </ul>

## Phase 5 - Monitoring energy savings

### Objective and scope

This phase aims to:

- 1. Periodically conduct the necessary analyses to determine improvements in energy use associated with energy savings measures implemented
- Communicate energy performance improvement results to senior management and employees
- 3. Update eligible savings measures and the benchmark scenario annually

#### Financial assistance

The financial assistance offered by Énergir corresponds to the lesser of the following amounts:

- 1. \$175,000 over a maximum period of four (4) years
- 2. \$0.10/m³ of natural gas saved following the implementation of one or more eligible energy efficiency measures after a maximum continuous measurement period of one year.

This financial assistance is provided on an annual basis over a maximum period of four (4) years.

From the date of acceptance of the first deliverables for the development and implementation phase, the participant has four (4) years to apply for financial assistance to monitor natural gas energy savings.

Note: Financial assistance for the savings monitoring phase can only be paid annually if new eligible energy savings measures are put in place each year.

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## Eligible energy savings measures

The following energy savings measures are eligible for financial assistance under the energy savings monitoring phase:

- Measures to change certain behaviors that do not require any expenditure on equipment or products
- Maintenance-related measures
- Capital measures not eligible under other Énergir programs

## Steps of the energy savings monitoring phase

Table 6: Steps of the energy savings monitoring phase

Steps	Description of steps
1. Presentation of the deliverable	<ul> <li>Before submitting an application for financial assistance, the participating customer submits the energy committee's annual report every year to Énergir, if applicable.</li> <li>This report should include, at a minimum, the following items:         <ul> <li>A review of the objectives and results of each EPI</li> <li>A list of eligible energy savings measures already in place and future measures</li> <li>Natural gas savings realized</li> <li>Method and calculations justifying the savings</li> </ul> </li> <li>The participating customer gives their consent to Énergir to ask them to provide details as to the content of the deliverable and/or to make changes to it.</li> </ul>
2. Financial assistance payment	<ul> <li>As soon as Énergir deems the deliverables satisfactory, the participating customer can submit the <u>Detailed list of eligible costs and request for payment (Form II)</u>, which is available on Énergir's website, for the savings monitoring phase.</li> <li>The form must be accompanied by the following documents:         <ul> <li>The final version of the energy committee's annual report</li> <li>If applicable, a copy of the invoice given to the customer by the external firm, indicating the total cost of services provided plus applicable taxes (GST and QST)</li> <li>An invoice submitted by the applicant to Énergir to claim the amount of financial assistance, as well as applicable taxes (GST and QST)</li> <li>Applicants are invited to consult Appendix D in this guide for the treatment of applicable taxes.</li> </ul> </li> </ul>



## **Combined financial assistance**

The financial assistance offered by Énergir under the EMS Grant can be combined with financial assistance from complementary programs offered by other energy distributors or government agencies for the same expenses, with the exception of Transition énergétique Québec.

The combined financial assistance must not exceed 75% of natural gas costs for the audit and development and implementation phases of the EMS. If necessary, Énergir will provide the customer with reduced financial assistance based on contributions from other agencies and attributable to each phase so that the portion payable by the customer represents at least 25% of the costs.



# Appendix A: Information to be provided in a diagnostic report – diagnostic phase of the EMS program

The diagnostic report submitted as part of the diagnostic phase of the EMS stream must contain the following information:

#### Report and analysis of current energy consumption

- $\hfill \square$  Description of current energy consumption and costs.
  - Breakdown by energy type.
  - o Breakdown by department.
  - o Breakdown by period (shutdown, maintenance, production).
  - Breakdown by equipment.
- ☐ Energy models and multivariate consumption analyses.
  - Identification of significant energy uses (SEUs), i.e. equipment that consumes 20% or more of the plant's energy.
  - o Data collection (schedules, daily) for the representative years of the energy consumption profile, including a breakdown by fuel type (electricity, natural gas, diesel, etc.).
  - o Generate an energy reference<sup>5</sup>—also called an energy baseline—to later calculate the energy saved or wasted during the implementation and savings monitoring years.
    - Linear regression is a recommended technique for determining the baseline (see sample equation below and Appendix E for more information on regression).

**Energy consumption** = 
$$m_1x_1 + m_2x_2 + m_3x_3 + b$$

 Another method could also be modelled on the International Performance Measurement and Verification Protocol, or any other relevant approach.<sup>6</sup>

#### **Operational energy savings**

- ☐ Identification of (preliminary) operational control strategies leading to energy savings.
  - Include the models, hypotheses, interventions and calculations used to estimate savings for each strategy.

<sup>&</sup>lt;sup>5</sup> The energy baseline will be analyzed and approved by the DATECH advisor to determine the grant amounts allocated during the energy savings monitoring phase. It is therefore a critical part of the diagnostic phase of the EMS program.

<sup>&</sup>lt;sup>6</sup> https://evo-world.org/en/

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#### **Energy management information system**

- ☐ Description of current data warehousing and measurement systems (SIGE).
  - Description and assessment of existing meters for operational control by energy accounting centres (EAC) and SEUs.
  - Current data analysis systems, reporting systems and organizational capacity to manage various systems.
- ☐ Recommendations to close measurement system gaps.
  - Identification of new meters/sensors required to create natural gas-specific Energy Performance Indicators (EPIs) and for operational control by energy accounting centres (EACs) and SEUs.
  - Infrastructure-related changes/requirements for data collection and warehousing.
  - Integrated energy management activities within existing management systems to ensure systematic conversion of data into cost-saving measures.

#### Recommendations for improvements to the current EMS

- ☐ Objectives of the EMS, including perspectives across the different levels of the organization.
- ☐ Recommendation to close gaps:
  - Establishment of the EAC structure to identify controllable zones where energy will be managed.
  - Definition of the reporting system for the different levels of the organization's management, supervision and operations.
  - Identification of training/procedures required for EMS implementation.

#### Project control and profit analysis

- ☐ Cost estimate:
  - Complete a cost estimate for implementation, deployment, equipment, installation, support service fees and grants to be received.
- ☐ Schedule:
  - Include significant project milestones and all activities related to EMS implementation, deployment and savings monitoring.

#### Conclusion and next steps

Conclusion and next steps for EMS activities.



# Appendix B: Information to be provided – Development and implementation phase of the EMS

As	part o	this phase, the applicant must be able to provide the following information:	
	Reduction in natural gas consumption targets for each energy performance indicator (EPI) specific to this type of resource for each of the significant energy uses (SEUs) selected for the project		
	The dashboard model for monitoring EPIs		
	The strategy for carrying out continuous measurement:		
		The objective for continuous measurement of savings:	
		<ul> <li>Describe the purpose and expected outcomes of energy efficiency measures related to the EMS (i.e. primarily measures aimed at improving operations).</li> </ul>	
		Description of the proposed method:	
		<ul> <li>Describe the desired savings monitoring approach.</li> </ul>	
		Describe the measurement perimeter within which monitoring will be carried out.	
		<ul> <li>Specify points to be monitored and equipment for continuous measurement and data storage, as well as its commissioning.</li> </ul>	
		Description of key parameters:	
		Describe the benchmark scenario: consumption, demand, operating conditions, etc.	
		Describe the efficient scenario: consumption, demand, operating conditions, etc.	
		<ul> <li>Describe the conditions that could impact the achievement of objectives: static factors, periods of occupancy, temperature record, building characteristics, etc.</li> </ul>	
		Define condition changes where all energy consumption measurements will be adjusted.	
		Analysis procedures and calculations:	
		<ul> <li>Clarify the exact data analysis procedure, algorithms and assumptions to be used for each energy-saving measure.</li> </ul>	
		• Define the mathematical models, their terms and variables (regressions, degree days).	
		Provide the calculation file in Excel.	
		Monitoring period: Specify the monitoring period, which must be representative of the measure applied (heating, ventilation, process, etc.).	
	A reco	outlining planned and implemented measures to reduce natural gas consumption	
	The EMS deployment schedule over a period of five (5) years, including the schedule of energy committee meetings and the schedule for acquiring and installing continuous measurement equipment		
	A list of energy committee members (including the name of the energy manager) and their roles and responsibilities		
	A cost estimate for all planned activities		

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# Appendix C: Sample report on the commissioning of continuous measurement equipment

The applicant must be able to provide the following information:

A brief description of the progress made regarding continuous measurement equipment, if it differs from the initial project
A description of the problems encountered when commissioning continuous measurement equipment if applicable
A list of the main pieces of equipment that were replaced or decommissioned
A list of new equipment installed, including the manufacturer's name and serial number on each manufacturer's nameplate.



# **Appendix D: Treatment of applicable taxes**

As a company registered for GST and QST and a recipient of financial assistance under the EMS Grant, Énergir wishes to inform you that in order to comply with the *Excise Tax Act* (GST) and the *Act respecting the Québec sales tax* (QST), you must send us an invoice, bearing Énergir's name, for the total amount of financial assistance you received.

To make the payment, the invoice must be properly drawn up and contain the following information:

This invoice financial and By email:	ce must be forwarded to one of the followi	ing addresses, along with the <b>Request for payment of By mail: Énergir</b> Carbon Market
This invoic	ce must be forwarded to one of the followi	ing addresses, along with the Request for payment of
This invoic	ce must be forwarded to one of the followi	
	Reference to the file number on the acc	ceptance letter
	Recipient's GST and QST registration r	number
	Taxes owing on the amount of financial	assistance: GST and QST
	Amount of financial assistance requeste	ed and indicated in Énergir's acceptance notice
	Description: Financial assistance for the	e EMS Grant
	Invoice number and billing date	
	Énergir's name as the grant-making org	ganization
	Address where the planned work will be	e carried out
	Name of the financial assistance recipie	

Your accountant or tax professional will be able to provide you with further details about this specific procedure and the tax treatment of financial assistance. We encourage you to consult them.



# Appendix E: Establishing the energy baseline using linear regression

In order to properly monitor the consumption and energy performance of a plant, facilities must collect data through specific measurement instruments for each year of the EMS program deployment.

de	oloym	ent.	
	Reported consumption must include a breakdown of energy consumption by fuel type.		
	This data is then used to generate an energy reference (or energy baseline) to calculate the energy saved or wasted in the subsequent year.		
	genera seline	al, linear regression is a powerful and frequently used tool for establishing the energy	
	The regression analysis takes into account variables such as changes in production intensity and weather conditions.		
	The f	ollowing steps are used to establish energy baselines and monitoring:	
	0	Define the scope (supply limits) of energy consumption.	
	0	Select the reference year (year 0).	
	0	Select the independent variables that affect energy consumption (e.g. production, temperature, humidity).	
	0	Collect energy consumption data and independent variables.	
	0	Use regression analysis to standardize plant data and find the function that represents consumption.	
	0	Calculate the change in energy consumption from the baseline year.	
	0	Calculate total energy savings.	
	The li	near regression analysis must be approved by Énergir according to the criteria presented above	

<sup>22</sup> The participation conditions have been in effect since October 1<sup>st</sup>, 2019, and has been revised on November 1<sup>st</sup>, 2023. However, Énergir reserves the right to modify or terminate the program at any time without prior notice. Énergir also reserves the right to interpret the terms and conditions of the financial assistance grant.