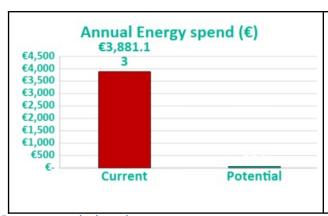
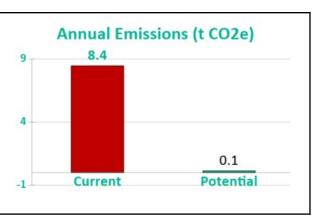
For: Connolly N.S., Connolly, Co. Clare





Energy & Emissions





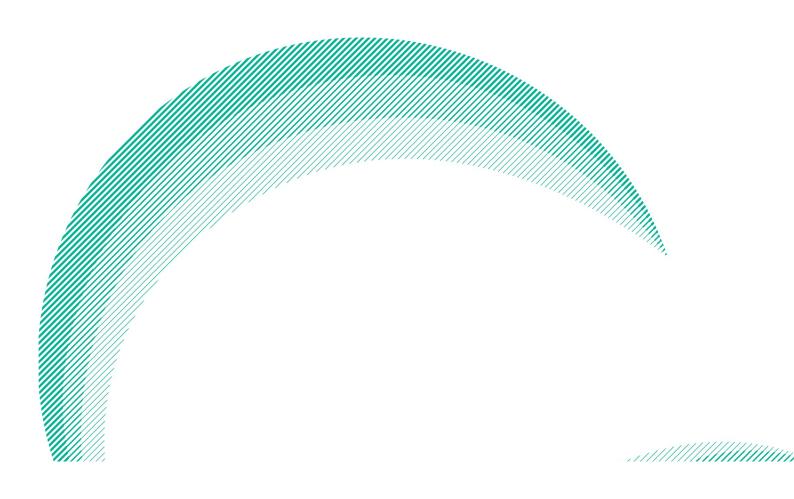
Recommended actions

| Description | Energy saved (€ per year) | Emissions reduction (t CO2e per year) | Cost of Action (€) | Payback period (years) | First Steps |
|--|------------------------------|--|--------------------------|------------------------------|--|
| Solar PV 4 kW + 20 kWh battery | €1,203 | 1.5 | € 5,600 | 4.7 | * Engage with a Project Coordinator |
| Pump the cavity on all walls | €625 | 1.7 | €2,000 | 3.2 | * Engage with a Project Coordinator |
| Improve attic insulation an airtightness over two classrooms | €375 | 1.0 | €2,000 | 5.3 | * Engage with a Project Coordinator |
| Replace all 58W lightbulbs in classrooms | € 116 | 0.1 | €129 | 1.1 | * Engage with a Project Coordinator |
| Multiple air-to-air heatpumps for classrooms | € 1,125 | 3.1 | €9,000 | 8.0 | * Engage with a Project Coordinator |
| Replace all external doors and windows dating from 1994 | €375 | 1.0 | €10,000 | 26.7 | * Engage with a Project Coordinator |
| Total | €3,820 | 8.6 tCO2e | €28,729.3 0 | NA | |



Support Scheme for Energy Audits (SSEA)

Energy Audit Report





Contents

| 1 | Site description | 4 |
|----|--|----|
| 2 | | |
| | 2.1 Site energy consumption summary | |
| 3 | Understanding your energy bills | 6 |
| | 3.1 Bills analysis summary | |
| | 3.2 Monthly trends in energy use | 7 |
| | 3.3 Monthly trends summary | |
| 4 | | 8 |
| | 4.1 Recommended actions to save energy | 8 |
| | Renewable Energy – photovoltaics (solar) | 8 |
| | Study of Solar PV suitability and sizing | 8 |
| | 4.2 Recommended actions | 10 |
| | Appendix A – Site tour checklist | 11 |
| | Appendix B — Benchmarking | 12 |
| | Appendix C – Energy Management matrix | 14 |
| | Appendix D – Renewable Heat Assessment | 15 |
| | Appendix E – Solar photovoltaic assessment | 17 |
| | Appendix F – Glossary of terms | 18 |
| | Appendix G – Completion of Works form | 19 |
| h | ndex of Tables | |
| Ta | able 1: Site Information | 4 |
| | able 2: Visit Information | |
| Τá | able 3: Energy consumption on-site | 5 |
| Τá | able 4: Energy bills analysis | 6 |
| Τá | able 5: Impact of Solar PV system | 8 |
| Ta | able 6: Recommended Actions | 10 |
| Tá | able 7: Overall benchmarking | 13 |
| Ta | able 8: Renewable Heat Assessment | 15 |
| Ιá | able 9: Suitability for biomass | 16 |
| | Γable of Figures | |
| Fi | igure 1: Breakdown of costs, emissions and energy usage | 5 |
| Fi | igure 2: Monthly trends in energy usage | 7 |
| Fi | igure 3: Proposed location of Solar PV system | 9 |
| Ηi | igure 4: Projected usage and production with a 10 kW Solar PV system | 9 |



This section provides an overview of your site and key information about the visit. A site tour checklist is provided in Appendix A.

| Organisation name | Connolly National School |
|---|---------------------------------------|
| Site address | Connolly |
| County | Co. Clare |
| Eircode | V95 Y066 |
| Useful floor area (m2) | 388 |
| No. of personnel working at site | 4 |
| Is shift work carried out onsite? | No |
| Size of company fleet (no. of vehicles) | 0 |
| Typical operating hours per year | 1281 |
| Sector | Human Health & Social Work Activities |
| Build date (estimate if necessary) | 1900 - 1919 |
| Facility owned or leased | Owned |

Table 1: Site Information

| SEAI Application ID | NA |
|------------------------|-------------------------------|
| Site Visit Date | 11/09/25 |
| MPRN Number | 10 306 028 028 |
| GPRN Number | NA |
| Site Contact name | Sean O'Neill |
| Site Contact job title | School Principal |
| Energy Auditor name | Colm Garvey |
| Energy Auditor company | Clare Community Energy Agency |
| Comments | |

Table 2: Visit Information



2 What fuels do you use?

A breakdown of the different types of energy used at your site is shown below in Table 2a. The table below shows you where your energy comes from: the annual cost, how much you use in kilowatt hours (kWh) and how many tonnes of CO2 emissions it generates each year. The information has been taken from your energy bills which is the most accurate source.

Table 3: Energy consumption on-site

| Reference Period: 07/2023-06/2024 | | | | | | |
|-----------------------------------|--------------------|---------------------|------------------------------|--------------------|--|--|
| Energy source | Annual Cost (€) | Annual Use (kWh) | Annual Emissions (t CO2e) | Information source | | |
| | | | | | | |
| Oil - Fuel Oil | €2,500.00 | 25,423 kWh | 7.0 tCO2e | Bill | | |
| Electricity - imported | €1,381.13 | 4,604 kWh | 1.5 tCO2e | Bill | | |
| Electricity -Self Generation | €0 | 2,814 kWh | 0.0 tCO2e | Bill | | |
| | | | | | | |
| Total | €3,881.13 | 32,840 kWh | 8.4 tCO2e | | | |

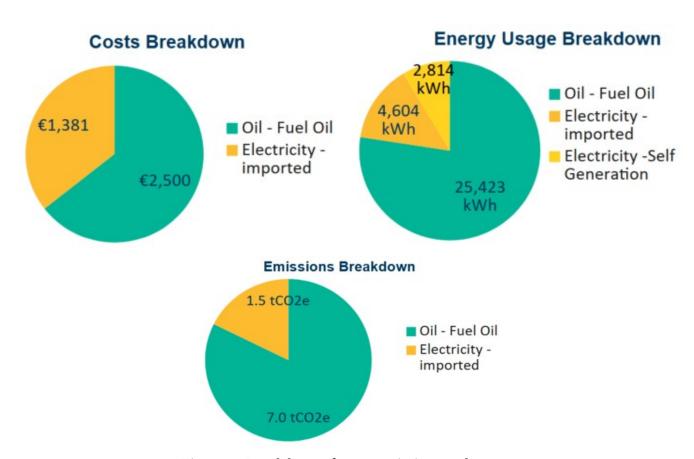


Figure 1: Breakdown of costs, emissions and energy usage



2.1 Site energy consumption summary

These graphs illustrate the information from the table above. You may find them useful when making your business case for investing in energy management measures.

3 Understanding your energy bills

The auditor analysed your energy bills to determine whether there are easy changes you can make to help you save money.

| | Yes/No | Comments |
|---|---------------------------------------|--|
| Is the client on an appropriate tariff/tariffs? | Yes | 24 hr rate with Electric Ireland |
| Is max import capacity correct for client's requirements? | Yes | |
| Are there any other penalties? | No | |
| Comment on day/night/\ | veekend profiles | 24 hr rate suits the usage of the school i.e. very little night usage |
| Comment on any trends or anoma | alies in the data | Usgae data is retrieved from Solar PV monitor i.e. good quality |
| Has the client switched their elect contracts in th | ricity and/or gas ne past 2 years? | Yes. |
| Any | other comments | Should continue to review prices via brokers every 6 months |

Table 4: Energy bills analysis

3.1 Bills analysis summary

- Electricity usage data is of excellent quality as the has a 6 kW Solar PV system which provides detailed monitoring. .
- Cost / kWh is competitive but should be monitored.



3.2 Monthly trends in energy use

Your energy use changes over the course of the year, Figure 2 shows the trends in use for Electricity.

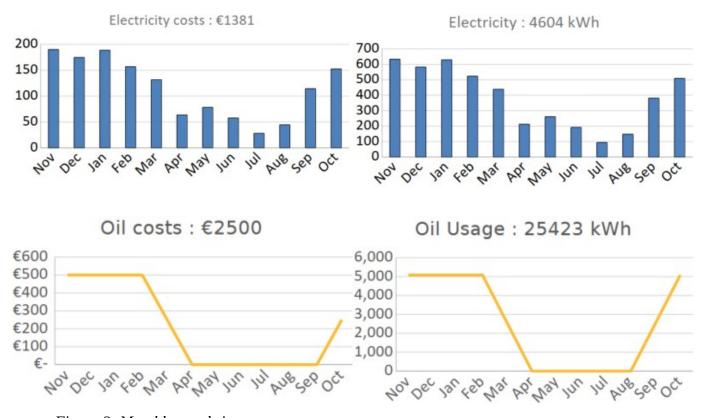


Figure 2: Monthly trends in energy usage

3.3 Monthly trends summary

- We can still see the seasonal trend, i.e. usage considerably higher during the winter months when the lighting and heating requirements are highest.
- The impact of Solar PV production is notable for the months of April to September
- The charts for Oil usage are estimates, assuming 6 heating months of the year spread mostly over Nov to Feb with some usage in October and February
- No detailed oil usage information is available.



4 Electricity, heat and transport

Recommended actions to save energy 4.1

Your Auditor reviewed potential actions that your organisation can take to improve energy efficiency and generate renewable energy at your facility (specifically, through heat pumps, biomass, and photovoltaics). A list of actions is provided in Table 6a. Many organisations are interested in opportunities for generating renewable energy. A summary of your facility's suitability for both renewable heating and renewable electricity (solar) is provided below and in Appendices D and E.

Renewable Energy – photovoltaics (solar)

Photovoltaics generate electricity using solar energy from the sun, providing a completely renewable, clean source of electrical energy. As part of this audit, the auditor assessed your facility's suitability for generating electricity from solar energy. A brief summary of this assessment is provided below. The complete photovoltaic assessment tool may be found in Appendix E.

Summary of facility's suitability for photovoltaics: SUITABLE

Overall suitability of the facility for expanded Solar PV system.

The school is an excellent candidate for an expanded Solar PV system in addition to the existing 6 kW. A further 4 kW of panels is recommended with a 10 kWh battery to cover current usage, to cover a potential heatpump installation and to provide resilience in case of grid failure.

Impact of solar PV:

| If facility is suitable for expanded solar PV: | | | | |
|--|------|--|--|--|
| Estimated annual kWh savings (only from PV) | 3714 | | | |
| Estimated emissions saved (tCO2e) | 1.49 | | | |

Table 5: Impact of Solar PV system

Study of Solar PV suitability and sizing_

- the area with the yellow marker in Figure 3 would allow for a potential 4 kW of additional Solar PV
- We would recommend an additional $4 \, kW$ with $10 \, kWh$ battery, given the current usage of the school.
- Given the location/orientation of the roof this would produce 3714 kWh per year (taken from this online calculator.
- Recommendation summary
 - Expanded Solar PV System size: 10 kW
 - Battery size: 10 kWh
 - Quotes for such a Solar PV system can be requested from any of the registered SEAI installers.



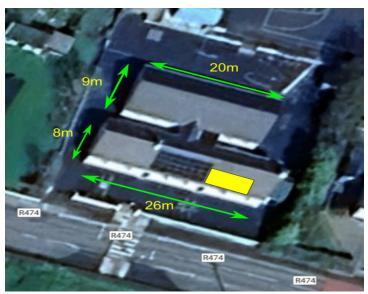


Figure 3: Proposed location of Solar PV system

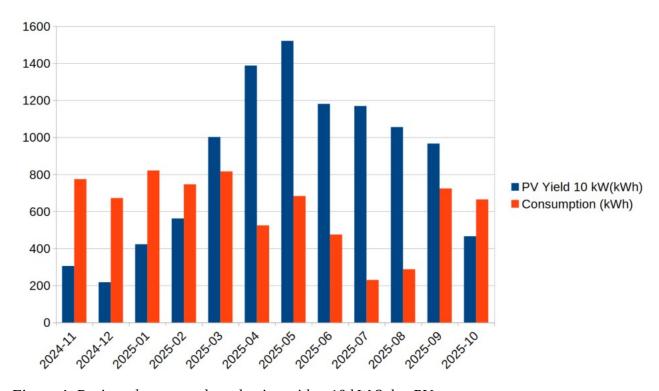


Figure 4: Projected usage and production with a 10 kW Solar PV system



SSEA Energy Audit Report

Seal SUSTAINABLE ENERGY AUTHOR IRELAND

4.2 **Recommended actions**

Your auditor has identified the top actions you should take to improve the energy efficiency of your site and save on your energy costs. These actions are listed in Table 6d below.

| Description | Energy savings (kWh per yr) | Type of energy saved | Cost savings (€ per yr) | Emissions reduction (t CO2e per yr) | Estimated cost of action (€) | Payback period (years) | Potential supports | Comments / Additional info | First Steps |
|--|--------------------------------------|---------------------------|----------------------------------|--|------------------------------|------------------------------|----------------------------|--|---|
| Solar PV 4 kW + 20 kWh battery | 4,604 | Electricity - imported | €1,203 | 1.49 | €5,600 | 4.7 | Microgenerat ion scheme | * Assuming a cost of €8k ex. Vat for a 4 kW system + 10kWh of batteries * Assuming an SEAI grant of €2400 * Assuming that 100% of current electricity usage is offset (saving ~30c/kWh) | * Request Quotes * Apply to SEAI |
| Pump the cavity on all walls | 6,356 | Oil - Fuel Oil | €625 | 1.74 | €2,000 | 3.2 | Communities grant | * Assuming a 25% saving of kWh required for heating * Assuming cost of €4k before grants * Assuming 50% funding available from Communities grant * This concerns the external walls of the rear classrooms and the connecting corridor | * Engage_with a_Project_ Coordinator |
| Improve attic insulation an airtightness over two classrooms | 3,813 | Oil - Fuel Oil | € 375 | 1.04 | €2,000 | 5.3 | Communities grant | * Assuming a 15% saving of kWh required for heating * Assuming cost of €4k before grants * Assuming 50% funding available from Communities grant * Only the two rear classrooms are to be done | <u>* Engage with</u> <u>a Project</u> Coordinator |
| Replace all 58W lightbulbs in classrooms | 388 | Electricity - imported | € 116 | 0.13 | €129 | 1.1 | Communities grant | * Assuming all 58W tubes are replaced by 32W tubes * Assuming usage of an average of 4 hours per day * Assuming there are 20 tubes in total in the school * Assuming 50% funding available from Communities grant * Assuming a cost of €12.93 for replacement tubes | * Engage_with a_Project_ Coordinator |
| Multiple air-to-air heatpumps for classrooms | 11,440 | Oil - Fuel Oil | €1,125 | 3.13 | €9,000 | 8.0 | grant | * Assuming all other fabric improvements have been carried out, reducing the heating requirement by 55% * Assuming cost of €18k before grants * Assuming 50% funding available from Communities grant * All four classrooms to be done with a spar of one to the staffroom | * Engage with a Project Coordinator |
| Replace all external doors and windows dating from 1994 | 3,813 | Oil - Fuel Oil | € 375 | 1.04 | €10,000 | 26.7 | Communities grant | * Assuming a 15% saving of kWh required for heating * Assuming cost of €20k before grants * Assuming 50% funding available from Communities grant | * Engage with a Project Coordinator |

Table 6: Recommended Actions



 $\begin{array}{l} \textbf{Appendix} \ \textbf{A} - \textbf{Site tour checklist} \\ \textbf{The table below shows which areas of your site the auditor checked on during the site visit.} \end{array}$

| | Yes / No / NA | Comments |
|--|---------------|---|
| Physical Condition of Building(s) | YES | Relatively good overall condition considering the age |
| In considering the agesulation of Walls, Roofs | YES | Actions required in attics, cavity walls |
| Windows and external doors | YES | All windows/doors from 1994 to be replaced. |
| Space Heating | YES | Oil boiler in relatively good condition |
| Water Heating | YES | Instan t undersink heaters |
| Heating Controls | YES | Good heating controls, zoned and programmable |
| ICT & office equipment | YES | Minimal office equipment |
| Ventilation & Air Conditioning | YES | None |
| Lighting | YES | 58W bulbs in all classrooms. Can be replaced by 32W with same lighting equivalent |
| Refrigeration & Cooling | N/A | |
| Compressed air | N/A | |
| Pumps | N/A | |
| Industrial processes | N/A | |
| Transport | N/A | |
| Evidence of Energy Awareness (posters etc.) | N/A | |





Appendix B – Benchmarking

The table below provides a benchmark of your organisation performance against a range of energy performance metrics, with scores against each for your current and potential. The "potential" score is based on implementation of all the recommendations identified in this report.



SSEA Energy Audit Report

Table 7: Overall benchmarking

| | ★ Very Poor | | ★★★ Satisfactory | ★★★ Good | **** Excellent | Current |
|--|--|---|--|---|--|---------|
| 1 Energy | 0 - 5 | | 11 - 15 | 16 - 20 | 21 + | *1 |
| 2. Building fabric for areas with space heating | Uninsulated, single glazing Typical of BER F-G | double glazing | Minimal insulation and double glazing Typical of BER C-D | High levels of insulation and high performing glazing Typical of BER B | NZEB equivalent building fabric Typical of BER A-B | ** |
| 3. Building services for areas with space heating | Low efficiency heating with minimal controls Very low efficiency lighting (T8s, T12s or incandescent) | Low efficiency lighting (T5s or T8s) | Modern <10 year old oil or gas heating with good heating controls/BEMs Efficient lighting (LEDs or high efficiency T5s) | modern controls and zoning High efficiency lighting (LEDs) | Significant (>60%) space heating supplied by renewable heat with advanced heating controls High efficiency lighting (LEDs) with controls | ** |
| equipment | Typical of BER F-G Low efficiency, older equipment Heavy dependence on fossil fuels in production Evidence of poor operational control and energy wastage | Typical of BER D-E Some lower efficiency equipment in use Medium dependence on fossil fuels | · | Typical of BER B Modern, best in class equipment Strong use of monitoring and automation Minor dependence on fossil fuels | Typical of BER A-B Modern, best in class, equipment Heavy use of advanced monitoring, automation and energy saving techniques Minimal dependence on fossil fuels | *> |
| 5. Control and monitoring For manufacturing, processing, production etc. | No evidence of control or monitoring of equipment | but not centralised, level | | Centralised control and optimisation Good level of data analytics and performance indicators | Modern, best in class, centralised monitoring and control Heavy use of data analytics and performance indicators | * |





Appendix C – Energy Management matrix

The matrix below shows you how to interpret your Energy Management score. The Scores run from 0 to 4, where 4 is the best. Your facility was assessed according to the 6 aspects of energy management listed across the top. Use this matrix to see what you need to do to improve your Energy Management score.

| | Energy management: Definitions of scores | | | | | |
|---|---|--|--|---|---|---|
| | Energy Policy | Organising | Communication | Information Systems | Marketing | Investment |
| 4 | Top management are actively committed to energy policy, action plan and regular review. | Energy management fully integrated into management structure. | Formal and informal channels of communication regularly at all levels in the organisation. | Comprehensive system sets targets, monitors consumption, identifies faults and quantifies savings. | Routine marketing of the value of energy efficiency and CO2 reduction internally and externally | Positive discrimination towards 'green' schemes; detailed appraisal, inc. energy, of all investment opportunities. |
| 3 | No active commitment from top management, but formal energy policy in place | Energy committee representing all users in place, chaired by a member of the managing board. | Energy committee used as main communication channel with direct contact with major users. | Routine M&T reports for individual users based on sub- metering. | Programme of staff awareness and regular publicity campaigns. | Same pay back criteria employed as for all other investment. |
| 2 | Energy manager or senior departmental manager have set an un-adopted energy policy. | Energy manager in post, reporting to ad- hoc committee | Contact with major users takes place through ad-hoc committee. | Monitoring and targeting reports based on supply meter data. Energy unit has ad-hoc involvement in budget setting | Some ad-hoc staff awareness training. | Investment using short- term payback criteria only. |
| 1 | An unwritten set of guidelines | Energy management is a part-time responsibility along with other responsibilities | Informal energy communication contacts between a few users. | Cost reporting based on invoice data for internal use within technical department. | Informal contacts used to promote energy efficiency. | Only low cost measures taken. |
| 0 | No explicit policy | No energy management or delegation of responsibility for energy consumption | No contact with users. | No information system. No accounting for energy consumption. | No promotion of energy efficiency. | No investment in increasing energy efficiency in premises. |



Appendix D – Renewable Heat Assessment

| | Result | Comments |
|--|--------------------|---|
| Is the client using fossil fuel for heating purposes? | N | |
| Suitability for heat pump | | |
| Could a heat pump offer an alternative? e.g. does the facility have a steady low/medium heating requirement? | Yes | The school has a relatively low heating requirement cinsidering the size of the building and the given usage patterns |
| o If yes for space heating: Is it likely that the building will achieve the required U values for a heat pump to operate effectively? | Yes | If the recommended actions for the cavity, attic and windows are carrie dout, then it would be suitable. |
| o If yes for space heating: What fabric and ventilation upgrades may be required? If "Other" please specify in Comments | Roof insulation | Attic / Cavity / Doors / Windows |
| Rank heat pump readiness for space heating: 1 – major upgrades required to all/most building elements, 2- major upgrades required to one building element, 3 – minor upgrades required to all/most building elements, 4 – minor upgrade required to one building element, 5 – heat pump ready | 3 | See above |
| o If yes for process heating: Is it likely that a heat pump could deliver the heat requirement? | N/A | N/A |
| Estimate of emissions reduction for heat pump conversion | N/A | N/A |

Table 8: Renewable Heat Assessment





| Suitability for biomass | | | | |
|---|---|---|--|--|
| Could biomass/biogas offer an alternative? i.e. does the facility have high peak loads? | N | The labour requirements and occupation rate render this unattractive for the hall | | |
| o If yes, are there any space constraints, e.g. for the boiler/CHP unit, and the delivery and/or storage of fuel? If "other" please specify in comments | Y | No storage area available | | |
| o If yes, are there any local supply of waste biomass or local biomass enterprises that can provide fuel stock? Please specify in comments | N | | | |
| o If yes, are there dedicated maintenance personnel on site? | N | | | |

Table 9: Suitability for biomass



$Appendix \ E-Solar \ photovoltaic \ assessment$

| Suitability for solar PV | Result | Comments |
|--|--------|---|
| Does the client use electricity from non-renewable sources? | Yes | Normal supply from national grid |
| Does the client appear to have a suitable roof for the installation of solar photovoltaic panels? Consider size, tilt angle, orientation and shading. | Yes | The south facing roof would be suitable for at least another 4 kW Solar PV system |
| If the roof is not suitable, is there an alternative location available? | N/A | See above |
| If solar PV is feasible, what is the client's estimated required power output? | 10 kWp | This will give an annual output of ~9 MWh which would cover the entire energy requirement of the school (electricity and heating) |
| Estimate the proportion of the client's electricity requirements that could be met through installing solar PV | > 100% | The system would cover the entire electricity need and would also cover a medium term switch from oil heating to an air-to-air heatpump |





Appendix F – Glossary of terms

| Term | Definition |
|----------------------------------|--|
| biogas | Biogas is a form of renewable energy. Biogas is produced through the anaerobic digestion or fermentation of organic feedstocks including biomass, sewage and agricultural and municipal wastes. The biogas can then be burnt as a renewable fuel. |
| biomass | Biomass fuel is a form of renewable energy generated from burning organic material such as wood, poultry litter, and straw |
| СНР | Combined Heat and Power: an energy efficient way to generate electricity whilst capturing and using the heat that would otherwise be wasted. |
| CO₂e | Carbon dioxide equivalent: a standard unit for measuring emissions by expressing the impact of all green-house gases (including carbon dioxide, methane and nitrous oxide) in terms of the amount of carbon dioxide that would create the same amount of atmospheric warming |
| electricity imported | Electricity that has been generated offsite for use at your facility |
| energy efficiency | Using less energy to perform the same task, i.e. reducing energy waste |
| fossil fuel | Carbon-based fuels from fossil hydrocarbon deposits, including coal, peat, oil, and natural gas. Fossil fuels produce carbon dioxide (CO_2) when burned, which is a greenhouse gas |
| GPRN | Gas Point Registration Number (GPRN): a unique reference number assigned to every gas point on the natural gas network. A gas point is a point where gas is taken from the gas network system, measured by a meter and consumed by an end user. Each individual gas point has its own GPRN. GPRNs have up to 7 digits. |
| heat pump | Electrical devices which convert energy from the air outside of your home into useful heat, in the same way a fridge extracts heat from its inside. Different types of heat pump draw heat from different sources: air, water or the ground. |
| kWh | Kilowatt hour: a unit of energy, equivalent to operating a 1,000 watt appliance running for one hour. |
| LPG | Liquefied Petroleum Gas is manufactured in oil refining, crude oil stabilisation and natural gas processing plants and consists of propane and/or butane gases. Typically used in boilers and for cooking. |
| Maximum Import Capacity (MIC) | The upper limit on the total electrical demand that a consumer can place on the network system. |
| MPRN | A Meter Point Reference Number (MPRN) is a unique 11-digit number assigned to every single electricity connection and meter in the country. Each individual meter has its own MPRN. |
| natural gas | Natural gas is a naturally occurring fossil fuel that is composed mainly of methane. It is piped through a national gas transmission & distribution network (in gaseous form, under pressure) directly to end users in the industrial, power generation, services and domestic sectors. |
| renewable energy | Energy from renewable non-fossil fuel sources, e.g. wind, solar (both solar thermal and solar photovoltaic) and geothermal energy, ambient energy, tide, wave and other ocean energy, hydropower, biomass, and biogas |
| solar photovoltaics | Also called "solar PV", solar panels that generate electricity when exposed to sunlight |
| thermal energy | Thermal energy refers to all solid, liquid and gas fuels used for non-transport purposes. This includes both fossil and renewable fuels used in boilers, space & process heating systems, catering, fuel-based electricity generators (onsite), CHP and in all plant, equipment & other non-road mobile vehicles. |



Appendix G – Completion of Works form

A. Audit Details Business/Organisation Name Applicant SSEA ID Facility MPRN Facility Address Facility Eircode

B. Auditor declaration

By signing this Completion of Works, the undersigned states that:

- The Energy Audit carried out at the above Facility Address has been delivered according to the SSEA Terms and Conditions and SSEA Guidance for Auditors.
- The information provided in this Energy Audit is true and correct to the best of my knowledge.

| Signed |
|---|
| Date |
| Name |
| Date SSEA site visit was carried out |
| Total cost of this SSEA Energy Audit, including the Voucher |

C. Applicant declaration:

By signing this Completion of Works, the undersigned states on behalf of the Business/Organisation named above that:

- A visit to the above Facility Address was carried on the date referred to in Section B by the Auditor referred to in Section B for the purpose of completing an energy audit,
- I have received a copy of the SSEA Report from the Auditor,
- I understand the Report's findings, and
- I am satisfied with the site visit and with the quality of the Energy Audit Report

| Signed | |
|--|--|
| Date | |
| Name | |
| Title/Position in Business/Organisation* | |

NOTE: This Completion of Works form should be returned with all other completed documents relating to this application. If any form is incomplete or missing, then the request for payment will be returned.

Notice for Applicants

Applicants please note:

This document was prepared by a Registered Energy Auditor and recommends practical ways that you can improve the energy performance of your business, using information gathered from an assessment of your business's current energy performance. Please seek professional advice before undertaking any energy upgrade works.

^{*} Must be signed by a Director or Senior Manager (or equivalent level) of the business/ organisation referenced below.



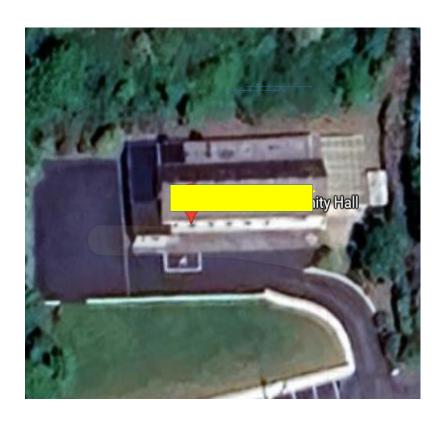


Sustainable Energy Authority of Ireland

SEAI is Ireland's national energy authority investing in, and delivering, appropriate, effective, and sustainable solutions to help Ireland's transition to a clean energy future. We work with the public, businesses, communities, and the Government to achieve this, through expertise, funding, educational programmes, policy advice, research and the development of new technologies.

SEAI is funded by the Government of Ireland through the Department Environment, Climate and Communications.

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