# Is your building energy efficient?

## Find out with our free Remote Optimal™ Energy Benchmark Calculator

How can you tell if your building is energy efficient? Does it meet the ISO 52120 Standard for building controls? Our free Remote Optimal™ Energy Benchmark Calculator will give you your building's current ISO 52120 rating, how much energy, cost and carbon you could save, and the potential return on investment for improvements.

There is no requirement to visit your site, and this service is free of charge if you are happy to provide some basic data such as building type, size and energy costs..

Visit our Remote Optimal™ Energy Benchmarking Calculator home page to get started. On completion of the analysis, you will receive a;

- **Free high-level assessment**
  Covers energy, cost and carbon savings – with minimal consumption data
- **Estimate of Potential savings**
  Show you the potential cost benefit of improving your building's overall rating to an "A" rating.
- **Energy Summary**
  Provide you with a high-level Energy Breakdown summary for different systems within your building - heating, lighting, ventilation etc. (Dependant on building type)

## Your building sustainability journey

Our Remote Optimal™ Energy Benchmark Calculator is the 1st step on a comprehensive efficiency journey for your building

You may also be contacted by your local branch to ensure that you have all of the information you need and to discuss a possible programme of improvement, or a full ISO 52120 audit.

**ISO 52120 is a standard that focuses on the energy performance of buildings.** Benefits include...

- ISO 52120 provides a framework for measuring and improving the energy performance of buildings, leading to more energy-efficient operations.
- Improved energy performance helps reduce greenhouse gas emissions.
- ISO 52120 provides consistent criteria for assessing energy performance, allowing for reliable **benchmarking** and comparison across different buildings and regions.
- It helps organisations comply with energy regulations, which require a building to achieve certain energy performance levels.
- Improved energy performance can lead to significant cost savings through reduced energy bills and potentially lower maintenance costs due to better building management practices.
- Buildings that meet high energy performance standards often have a higher market value due to their lower operating costs and improved sustainability credentials.
- By optimising energy performance, ISO 52120 indirectly contributes to better indoor air quality, temperature control, and lighting, which can enhance occupant comfort and well-being Enhanced building performance can improve occupants' health outcomes by reducing exposure to pollutants and providing a more stable indoor environment.
- ISO 52120 supports the achievement of green building certifications, such as LEED or BREEAM by providing a clear framework for energy performance.

The standard promotes the use of innovative building technologies and systems that can further enhance energy efficiency and performance.

Take the first steps toward true building efficiency in just minutes.

Get a rating

sse Energy Solutions

# Case Examples

## Secondary School

10,617 m²

| Energy Type | Actual (kWh/yr) | Benchmark (kWh/yr | ISO 52120 Rating (A-D) | Annual saving on upgrading to 'A' | |
|---|---|---|---|---|---|
| Natural Gas | 1,440,000 | 1,583,791 | B | £24,025 | 12% |
| Grid Electricity | 576,000 | 424,680 | D | £89,289 | 37% |
| | | **Overall** | **C** | **£113,314** | **26%** |

Whilst the use of gas is relatively energy efficient, electricity usage is at the lowest possible rating. These combine to poroduce an overal rating of C - which is typical of 80% of buildings throughout the UK and Ireland. The Benchmark Calculator also identifies ways in which the rating can be approved and shows the resulting potential annual savings in both gas and electricity consumption*.

## Government Office

25,700 m²

| Energy Type | Actual (kWh/yr) | Benchmark (kWh/yr | ISO 52120 Rating (A-D) | Annual saving on upgrading to 'A' | |
|---|---|---|---|---|---|
| Natural Gas | 3,117,898 | 3,248,411 | C | £42,201 | 27% |
| Grid Electricity | 2,558,527 | 2,862,796 | D | £126,841 | 14% |
| | | **Overall** | **C** | **£169,042** | **16%** |

The use of gas iscores a 'C' rating, which is the default for a building with BEMS. Electricity usage is 'B', giving an overall rating of 'C'.

## University Library

5,497 m²

| Energy Type | Actual (kWh/yr) | Benchmark (kWh/yr | ISO 52120 Rating (A-D) | Annual saving on upgrading to 'A' | |
|---|---|---|---|---|---|
| Natural Gas | 1,059,002 | 1,297,512 | B | £3,746 | 9% |
| Grid Electricity | 718,733 | 560,694 | D | £28,247 | 26% |
| | | **Overall** | **C** | **£31,993** | **16%** |

Whilst gas usage was relatively energy efficient, scoring a 'B', electricity usage was inefficient, scoring a 'D'. Combining them to achieve a 'C' enabled savings of almost a third

** All potential savings are estimated and it is recommended that before any work is conducted, a full on-site ISO 52120 audit is conducted.*