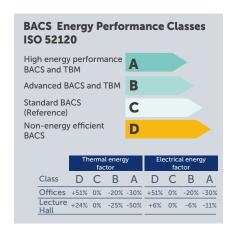


## **ISO 52120 Survey**

On 15 June 2022, the UK Building Regulations changed to require buildings to conform to greater levels of energy efficiency, and that an ISO 52120 (BS EN 15232) Class A rating would meet these requirements. This, coupled with decarbonising building targets, social pressure to operate more sustainably, and the economic pressure of increased energy costs, means it has never been more important to benchmark your estate and achieve maximum energy efficiency and building performance.



Let us survey your buildings

ISO 52120 is a recognised international Standard (based on EN 15232) providing a ranked classification of Building Energy Performance. Class C represents the standard energy efficiency for a building with a BEMS (termed a BACS in the



#### Benefits of an ISO 52120 Survey

#### Tangible results

The survey provides a lettered classification from A-D of both current and where you would like to reach in the future. It can often be difficult to show changes regarding energy in a short period of time as results may not be representative. Comparisons need to be made over a series of times to provide validity. Energy spending will vary month to month so it can take 12-24 months on average to confirm the impact of any changes. However the ISO 52120 recognises this, movement from one lower-ranking to another identifies progress has been made and with that efficiencies have improved.

#### A survey with solutions, not just results

It is not uncommon for an energy survey to highlight many areas of overspending or ineffective use of the equipment or energy within the buildings. However, it is often the responsibility of the client to find solutions to any identified issues. The ISO 52120 survey provides an identifiable cause and potential solution to each element of the survey if not performing at optimum performance.

#### "Quick fixes"

This is a great tool for sites looking to achieve small minor changes, which can help drive larger energy efficiency results. Many of the modifications will be minimal to the site and require little to no disruption.

#### Bespoke reporting

The report is bespoke to each client and therefore is customisable to include branding and logo as required by the user. If there are particular identified KPIs onsite these too can be a focus within the report and detailed in the solutions and outcomes.

#### **Estimating savings**

It is often for savings to be discussed as a percentage value. The ISO 52120 survey can demonstrate these savings at an estimated cost. When completing the survey we can use your current energy data and bills to inform the estimated savings.

standard). Few buildings achieve Class C, so that the majority of buildings achieve only Class D which results in 51% more energy being used. A Class A building, however, would offer a 30% reduction in energy usage.

The survey focuses on the control strategies within a building, or more specifically, improving the performance through advanced control functions

As a leading BEMS solutions provider, we possess the expertise and experience to deliver a detailed survey. With capabilities across a wide range of platforms, we are confident that we can provide recommendations that improve comfort conditions and optimises the efficiency of the building, aligned to your energy and carbon goals. Many of the recommendations will be software strategy changes that, when implemented, can result in immediate financial savings, far outweighing the cost of the initial survey and the cost to undertake the works.

#### What is ISO 52120?

We are all familiar with an EPC certificate and the display of them within our buildings. The ISO 52120 models a similar certification method but with a specific target around building controls. An ISO 52120 survey provides an assessment of the cumulative impact of BEMS on the energy performance of buildings. It is a recognised European and British Standard that evaluates several control and building automation technologies, which greatly influence a building's energy performance.

The survey will assess the following:

- Heating
- DHWS
- Cooling
- Ventilation
- Light
- · Auxiliary energy

Each of these elements is scored against a coherent grading system allowing inefficiencies and areas of improvement to be easily identified. This is then used to inform the Energy Performance Class of the building (see figure 1).

After the survey, we will compile a detailed report of the discoveries of the survey and include suggested improvements to enhance the overall building performance.

ISO 52120 surveys allow a thorough investigation of the operations of your building and professional opinion on the next steps in improving your energy

performance. Our expert team will guide you throughout the process and collaboratively develop strategies with your team on how to reach your goal energy performance class.

#### **Conducting the Survey**

To complete the survey and report our engineers will require access to the site to identify all necessary criteria. A written report will be produced corresponding to the information found within the survey. This will contain a detailed analysis of the findings for each criterion with a strategy containing suggested modifications, which will result in significant savings with a financial and environmental impact. If suggested solutions are implemented results will be shown in both an improvement in overall efficiency and running costs.

Our team will help to mobilise in the delivery of recommended solutions or advise on those which you as a client can implement yourself.

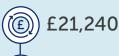
A follow-up survey would be beneficial in future to measure the outcome and the progress your building has made. This follow-up survey would provide conclusive evidence of the movement of the building from one energy performance class to another more



ISO 52120 has replaced EN 15232 and is an international standard.

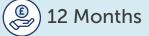
# Annualised Savings & ROI

As a result of work carried out following recommendations from an ISO 52120 survey, a government-occupied office block in london was able to make significant savings in cost, energy, and carbon, with a rapid ROI.









### For a better world of energy

To find out more about how SSE Energy Solutions can help your organisation, get in touch today info@sseenergyoptimisation.co.uk | 0345 072 9529 | sseenergysolutions.co.uk