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Promote Energy Efficiency within Sustainable Business Practice



Overview

This standard is about developing policies and guidelines that will improve and develop energy efficiency for an organisation. It also includes being able to determine levels of energy usage, identifying opportunities for improving energy efficiency, and promoting programmes to improve energy efficiency within an organisation. The standard promotes the use of energy from low carbon and renewable sources.

This standard would be appropriate for:

- 1 A manager with responsibility for energy efficiency
- 2 An owner/manager of a business seeking to improve energy efficiency for the organisation
- 3 An individual with a specific brief to improve energy efficiency
- 4 A consultant providing advice on energy usage and efficiency

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Performance criteria

- You must be able to:*
- P1 establish current levels of **energy usage** for **activities** undertaken by the organisation
 - P2 identify the **legal requirements** that control the use of energy and the generation of carbon
 - P3 **benchmark** organisational **energy usage** to identify opportunities for reducing **energy usage** and for improving **energy efficiency**
 - P4 identify **benefits** associated with reducing **energy usage** and improving **energy efficiency**
 - P5 specify efficiency targets and performance indicators for each area of **energy usage**
 - P6 identify potential **barriers** that may limit **energy efficiency**
 - P7 specify the monitoring procedures and their frequency to control **energy efficiency**
 - P8 identify opportunities for sourcing renewable energy
 - P9 advise on the design of processes and products to help minimise energy requirements
 - P10 promote and support the implementation of efficiency measures for all areas of **energy usage**
 - P11 promote the application of low carbon energy in support of organisational **activities**
 - P12 define and allocate **roles/responsibilities** in support of the implementation and management of measures to improve **energy efficiency**
 - P13 identify training needs and organise training for those responsible for implementing **energy efficiency** measures
 - P14 develop and implement strategy to overcome **barriers** that limit the impact of **energy efficiency** measures
 - P15 establish methods to evaluate the impact of **energy efficiency** measures
 - P16 support the implementation of **energy usage** monitoring, evaluation and control procedures
 - P17 evaluate the impact of measures to improve **energy efficiency** and assess the system-wide impact of individual changes
 - P18 specify, communicate and promote **benefits** achieved through efficiency measures

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Knowledge and understanding

You need to know and understand:

- K1 climate change legislation and how it controls organisational energy usage
- K2 government targets and legal requirements for carbon reduction and climate change and their implications
- K3 how energy consumption impacts on climate change
- K4 the role of energy efficiency in achieving sustainability
- K5 the benefits of energy efficiency to the organisation
- K6 how energy efficiency can help reduce carbon emissions
- K7 how to use carbon footprints as a measure of energy efficiency
- K8 the principles of energy efficiency benchmarking as a method of identifying opportunities for improving energy efficiency
- K9 sources of renewable energy including options for on-site energy generation
- K10 the benefits that low carbon energy offers
- K11 the relationship between energy and power, how they are measured and how the units of measurement relate to each other
- K12 how to establish current levels of energy usage for all organisational activities across the whole of a product life cycle in respect to both simple and complex systems
- K13 areas of energy usage and opportunities for improving energy efficiency
- K14 how to assess the system-wide impact of individual changes in energy usage
- K15 energy displacement and how it can impact on energy efficiency measures
- K16 how to develop targets and performance indicators for energy efficiency
- K17 how to monitor and control energy efficiency
- K18 the barriers that can limit energy efficiency and the strategies that can be used to overcome these barriers
- K19 how process and product design can impact on energy efficiency
- K20 how effective process control and quality assurance can support energy efficiency
- K21 how to complete an organisational cost/benefit analysis in respect to energy efficiency measures
- K22 methods for promoting organisational energy efficiencies
- K23 how to monitor, control and maintain sustainable energy usage
- K24 how to define and allocate roles/responsibilities for all those involved in improving energy efficiency

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Additional Information

Scope/range related to performance criteria

Benchmark – a comparative measure of an organisation against industry best practice

Energy usage including for example: heating, ventilation, refrigeration, plant and equipment usage, transportation, lighting, etc. It should include usage in both simple and complex systems

Barriers can be economic, practical, social or legal

Energy efficiency can be measured in relation to carbon emissions at any given stage in the production process, energy use per unit of output

Activities incorporate for example: purchasing, supply, production, storage, packaging, transport and all aspects of business support

Roles/responsibilities for: production staff, product developers, buyers, sales staff, customers and contractors

Benefits can be social, economic and environmental

Legal requirements: National and European

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