

Sustainable Food Production (SFP)

SFP.120K Understand how to reduce energy usage in a food environment

Unit Summary

This unit is about understanding how energy usage can be reduced in a food environment. It includes understanding organisational energy targets and how these relate to legal requirements. It also includes understanding the measures that can be used to reduce energy usage and the potential benefits that these measures offer in respect to achieving sustainability.

This unit applies to you if you are a manager, technologist or consultant who has responsibility for reducing energy usage in a food environment. It is expected that you will work as part of a team to develop and implement the systems.

Related Units

This is a knowledge unit which underpins the skills set out in:

- SFP.130S Maintain, promote and improve sustainability in food manufacture

You need to know and understand:

1. How legislation impacts on organisational energy usage
2. The impact of energy consumption on carbon emissions
3. How energy efficiency supports sustainable food manufacture
4. How organisational energy efficiency can help reduce the organisation's carbon footprint
5. The benefits of energy efficiency to the organisation
6. Organisational targets and standards for reducing energy usage
7. The different forms of energy usage within area of responsibility
8. How to monitor energy usage efficiency within area of responsibility
9. The measures used within the organisation to achieve energy efficiency and reduce energy usage
10. How the effective management and organisation of work can help minimise energy usage
11. How **others** can impact on the energy usage
12. How staff training and development can help minimise energy usage
13. The barriers that can limit the impact of energy reduction initiatives and how these barriers can be overcome
14. How failure to meet organisational quality specifications can impact on energy usage

Key Words

Barriers	These can be economic, practical, social, legal and the personal beliefs and attitudes of people
Sustainable	Something that has the capacity of being maintaining over the longterm economically, environmentally and socially.
Carbon footprint	The effect on the environment in terms of carbon dioxide emissions
Energy usage	Can include: heating, ventilation, refrigeration, plant and equipment usage, transportation, lighting, climate control and air conditioning
Energy efficiency	Can be measured in relation to carbon emissions at any given stage in the production process, energy use per unit output of food
Area of responsibility	Can include areas used to support: purchasing, supply, production, storage, packaging, transport and all aspects of business support.
Others	These can be: product developers, buyers, sales staff, customers and contractors
Benefits	Economic, social, environmental
Legislation	Relevant to: <ul style="list-style-type: none"> • The environment • Food safety and security