

GOOD PRACTICE GUIDE

Energy Management

In partnership with



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1. Introduction

What is the purpose of this document?

This document is written from an FM perspective to look at energy consumption, where the role is managing the demands of the customer, together with the need to reduce costs, ensure compliance and meet corporate targets. This is not a straightforward role and relies upon clear engagement to enable effective decision making.

Who is this document for?

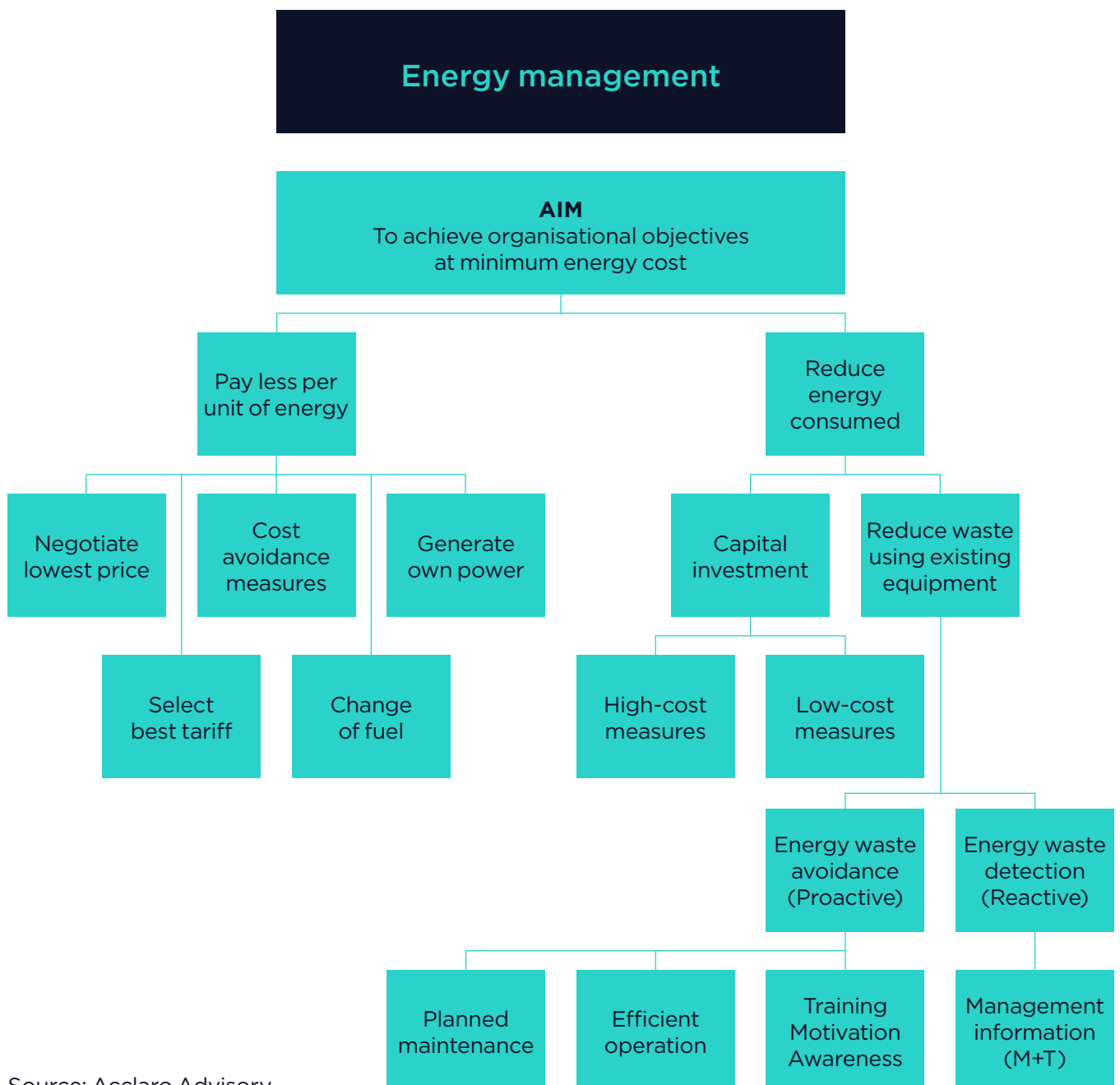
Management-level individuals who are responsible for existing buildings. This good practice guide (GPG) makes references to many technical guidance documents and is not intended to replicate this information. Instead, it has been created to help facilities managers to ensure they are implemented correctly and appropriately in the building to optimise performance.

What does the document cover?

The GPG focusses upon reducing the energy consumed within the building, and the mechanisms associated with data capture, identification and implementation of efficiency measures based upon energy hierarchy, together with the communication and engagement of stakeholders, such as customers and senior managers.

1.1 What is energy management?

Energy management is the proactive and systematic monitoring, control, and optimisation of an organisation's energy consumption to conserve usage and manage energy costs. Delivery is largely focussed towards strategically managing energy price risk through flexible contracts and reducing how much energy is being consumed, the diagram below shows the various steps that can be taken. The focus for this GPG will be focussing on the path of reducing energy consumption.



Source: Acclaro Advisory

1.2 Why is it important?

Around the globe, there is an important need to save energy, which impacts prices, emissions targets, and legislation that affects us all. Not only can energy management help reduce carbon emissions that contribute to global warming, it also helps reduce our dependence on increasingly limited fossil fuels.

Real Estate Carbon Reduction Technical Approaches



IPCC AR6¹ report highlights:

Processes are not yet commercially established for the retrofit of buildings with increasing examples of zero energy or zero carbon buildings. Technological innovation made possible the widespread adoption of LED lighting. Digital technologies including sensors, the internet of things (IoT), robotics, and artificial intelligence (AI) can improve energy management in all sectors; they can increase energy efficiency and promote the adoption of many low-emission technologies, including decentralised renewable energy, while creating economic opportunities.



CCC 6th Carbon Budget (non-domestic buildings)²:

To meet the 6th budget by 2030, a 27% reduction in energy consumption compared to the 2018 baseline is required, with commercial energy efficiency fully deployed by 2030 and public sector measures by 2032.

The benefits of good energy management practices for an organisation include:

- Reducing the amount of greenhouse gas emissions and helping to meet decarbonisation targets.
- Energy resilience to avoid brown outs and energy price shocks; generation of energy on site or guaranteed supply gives more certainty over consumption and price, allowing for business planning without the significant variability of costs.
- Cost savings, particularly with a higher unit price of electricity, through efficiency measures and optimising building performance.
- Increased regulation and reporting at a corporate level and building level, with a forward timeline pushing for greater and more accurate disclosure.
- Demonstration of company values to staff and customers.

¹ IPCC, 2023, Climate Change 2023 Synthesis Report

² CCC, 2020, Sixth Carbon Budget

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