

## **COSTPCBCB13.2**

### **Confirm project energy efficiency and carbon minimisation requirements in building control**



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#### **Overview**

This unit is about agreeing with stakeholders their energy efficiency priorities and evaluating the viability of alternative options.

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#### Performance criteria

#### Confirm project energy efficiency and carbon minimisation requirements

*You must be able to:*

- P1 confirm with **stakeholders** the **energy efficiency** and **carbon minimisation** goals and priorities for potential **projects**, in use both currently and in the future
- P2 review and interpret legislation, regulations and standards relevant to **energy efficiency and carbon minimisation** in use in **projects**
- P3 identify the factors that need to be considered in confirming the optimum **energy efficiency and carbon minimisation measures** for **projects**
- P4 identify the potential available alternative **energy efficiency and carbon minimisation measures** for **projects**
- P5 assess and quantify the viability of each **energy efficiency and carbon minimisation measure** against the factors taking into account the views of experts and **project stakeholders**
- P6 confirm with **stakeholders** the appropriate optimum **energy efficiency and carbon minimisation measures** which will satisfy the **project** goals, priorities and factors

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#### Knowledge and understanding

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*You need to know and understand:*

- K1 how to confirm with stakeholders the **energy efficiency and carbon minimisation** goals and priorities for potential **projects**, in use both currently and in the future (application)
- K2 how and why to review and interpret legislation, regulations and standards relevant to **energy efficiency and carbon minimisation** in use in **projects** (analysis)
- K3 what to identify as the **factors** that need to be considered in choosing the optimum **energy efficiency and carbon minimisation measures** for **projects** (understand)
- K4 what to identify as the potential available alternative **energy efficiency and carbon minimisation measures** for **projects** (understanding)
- K5 how and why to assess and quantify the viability of each **energy efficiency and carbon minimisation measure** against the **factors** taking into account the views of experts and **project stakeholders** (analysis)
- K6 how and why to select the appropriate optimum **energy efficiency and carbon minimisation measures** which will satisfy the **project** goals and priorities and **factors** (evaluation)
- K7 how and why to confirm the appropriate optimum **energy efficiency and carbon minimisation measures** which will satisfy the **project** goals and priorities and **factors** (synthesis)

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#### **Scope/Range**

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- 1 Stakeholders**
  - 1.1 internal
  - 1.2 external
- 2 Energy efficiency and carbon minimisation measures:**
  - 2.1 embodied energy
  - 2.2 energy consumption
  - 2.3 carbon targets
  - 2.4 emissions
- 3 Project (Performance in 2 of the following and knowledge and understanding of the rest):**
  - 3.1 new build
  - 3.2 adaptation
  - 3.3 alteration
  - 3.4 refurbishment/upgrading
  - 3.5 conservation
  - 3.6 demolition/decommissioning
  - 3.7 relocation
- 4 Measures:**
  - 4.1 energy sources and infrastructure
  - 4.2 energy consumption
  - 4.3 low carbon targets
  - 4.4 use of renewable resources
  - 4.5 use of non-renewable resources
  - 4.6 energy reduction programmes
  - 4.7 energy efficient technologies
  - 4.8 energy efficient practices
  - 4.9 material component sourcing
  - 4.10 building management systems
  - 4.11 whole life costs
  - 4.12 retain existing fabric
  - 4.13 briefing occupiers/owners

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<b>Originating organisation</b>	ConstructionSkills
<b>Original URN</b>	COSTPCBCB13.2
<b>Relevant occupations</b>	Town planners; chartered surveyors (not quantity surveyors); building inspectors; construction project manager and related professions
<b>Suite</b>	Town Planning, Conservation and Building Control
<b>Key Words</b>	Project; consultation; sustainability; conservation; planning; development proposal

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