

Mechanical Engineering Services**WSCC Property Services****Construction Guide Design Supplement M /003**

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Information from the Action Energy Programme

The Carbon Trust's Action Energy Programme produces a number of publications which can help Consultants to incorporate energy efficiency best practice into their designs. In addition, a number of these publications are cited within the Approved Document for Part L2 of The Building Regulations as a means of demonstrating compliance.

The publications are available free of charge from the Action Energy programme. Copies may be requested via the Action Energy Helpline (Freephone 0800 585794) or downloaded from their website www.actionenergy.org.uk.

The publications can be put into two categories:

Guides: Which explain a technology or technique in detail.

Case Studies: Which provide practical examples from organisations that have benefited from particular energy efficiency measures.

The following schedule lists those publications that are currently relevant (July 2003), to this section of the Construction Guide.

Publications marked *L2 are those cited in the Approved Document for Part L2 of The Building Regulations.

18.1 Publications on Schools**Guides**

- GIL 013: Energy savings in schools –
Energy conservation measures in temporary classrooms
- GIL 016: Using solar energy in schools
- GPG 056: Saving energy in school swimming pools –
A guide to refurbishment and new pool design
- GPG 343: Building energy efficiency in schools -
A guide to a whole school approach

Case Studies

- GIL 032: Passive solar design –
Netley Abbey Infant School
- GPCS 038: Energy efficiency in schools –
condensing gas boilers
- GPCS 095: Energy efficiency in schools -
Local controls for heating and lighting
- GPCS 381: Energy efficiency refurbishment of schools -
The achievements of Bolton Council

18.2 Publications on Admin Buildings

Guides

- GIL 024: All electric air-conditioned offices using heat pump technology
- GIR 030: A performance specification for the energy efficient office of the future
- GPG 016: Guide for installers of condensing boilers in commercial buildings
- GPG 046: Energy efficiency in offices – Heating and hot water systems
- GPG 274: Environmentally smart buildings – A quantity surveyor's guide to
the cost effectiveness of energy-efficient offices
- GPG 287: The design team's guide to environmentally smart buildings –
Energy efficient options for new and refurbished offices.

Case Studies

- GIL 011: Energy efficiency in offices -
A review of twelve office case studies
- GIL 012: Energy efficiency in offices (Posford House)

- GPCS 001: Energy efficiency in offices – Low cost major refurbishment
- GPCS 014: Energy efficiency in offices (Cornbrook House)
- GPCS 015: Energy efficiency in offices (Hemel Hempstead House)
- GPCS 016: Energy efficiency in offices (Heslington Hall, University of York)
- GPCS 017: Energy efficiency in offices (Hereford and Worcester County Council)
- GPCS 018: Energy efficiency in offices (Quadrant House)
- GPCS 019: Energy efficiency in offices (South Staffordshire Water Company)
- GPCS 020: Energy efficiency in offices (Refuge Assurance)
- GPCS 021: Energy efficiency in offices (1, Bridewell Street)
- GPCS 039: Energy efficiency in offices – Condensing gas boilers
- GPCS 308: Naturally comfortable offices – A refurbishment project

18.3 Publications on Libraries

Case Studies

- GPCS 305: Condensing boilers in galleries, museums and libraries

18.4 Publications on Heating, Ventilation and Air Conditioning

Guides

- ADH 010: Planning for passive solar design
- EMJFOCUS 41: A more efficient use of electric motors
- FEB 010: Controls and energy savings
- GIR 031: Avoiding or minimising the need of air-conditioning
- GIR 040: Heating systems and their control
- GIR 041: Variable flow control (*L2)
- GIR 056: Mixed-mode buildings and systems – an overview
- GIL 65: Sub-metering new build non-domestic buildings (*L2)
- GPG 001: Guidance notes for the implementation of small-scale combined heat and power

- GPG 003: Introduction to small-scale CHP
- GPG 032: Condensing boilers : Applications manual
- GPG 071: Selecting air conditioning systems –
A guide for building clients and their advisors
- GPG 132: Heating controls in small commercial and multi-residential
buildings (*L2)
- GPG 176: Small-scale combined heat and power for buildings
- GPG 226: The operation and maintenance of small-scale CHP
- GPG 234: Guide to community heating and CHP – commercial, public and
domestic applications
- GPG 257: Energy efficient mechanical ventilation systems
- GPG 303: The designers guide to Energy efficient buildings for
industry (*L2)
- GPG 322: CHP opportunities for local authorities
- GPG 344: Variable speed driven pumps
- LTMETHOD: The LT method version 2
- VSDGUIDE: Variable speed drives: A guide for electrical engineers

Case Studies

- GIL 001: The success of condensing boilers in non-domestic buildings –
A user study
- GIR 048: Passive refurbishment at the Open University –
achieving staff comfort through improved natural ventilation
- GPCS 124: Variable speed drives on secondary refrigeration pumps
- GPCS 162: Higher efficiency motors on fans and pumps
- GPCS 219: Two-speed motors on ventilation fans
- GPCS 396: Cost-effective ventilation and cooling (University of Lincolnshire
and Humberside)
- NPCS 102: The Queens Building, de Monfort University –
feedback for designers and clients

NPCS 115: The Ionic Building Cambridge – feedback for designers and clients

NPCS 114: The Inland Revenue Headquarters –
feedback for designers and clients

NPCS 118: Comfort without air-conditioning in a refurbished office

<< Previous Page

Next Page >>