

Minimizing Detrimental Impact on the Environment

QMP policy, procedures and processes are implemented to ensure that all staff, and sub-consultants minimize any adverse impact on the environment arising out of the performance of their duties.

These procedures also ensure that all contractors, subcontractors and clients are provided with sufficient guidance and information to ensure that they are made fully aware of their environmental responsibilities and obligations in respect of each project.

Meeting Standards

QMP will ensure that all relevant Directives, Regulations, Statutory Legislation, Best Practice and/or Guidance is adhered to at all times.

QMP undertakes a high volume of public sector work all of which complies with Government initiatives and OGC guidelines for sustainable construction.

Through our work for major central and local government estate holders we already have experience of understanding and incorporating the requirements of various directives regarding Environmental and Sustainability issues.

Company Environmental Policy

QMP view this responsibility as one of paramount company importance. Our Company Environmental Policy is approved and reviewed at Managing Director level and a copy is attached here for your information.

Nominated Environmental Champion

Our Nominated Environmental Manager is Peter Hill, BEng CEng MCIBSE.

He and his team, which include engineering and building surveying support, are responsible for ensuring dissemination of information and guidelines to all relevant QMP personnel and to all sub-consultants.

Both staff and sub-consultants are provided with a copy of our Environmental Policy & Procedures and in house induction training.

Peter also ensures that both the commission relevant and the individual project relevant information and advice is provided at all levels to all parties. All commission and project environmental issues will be directed through Peter and his team.

This will ensure uniformity and consistency of information across the board at both operational level and overall level.

It will be the responsibility of the Nominated Environmental Champion to ensure that advice from and/or approval of, both the participating authorities is obtained whenever appropriate.

QMP have also secured the services of an environmental scientist, Don Lack MSc CSci FEI FIOPE to ensure that all sustainable options are assessed and implemented where possible.

QMP's Practical Input

QMP can demonstrate that their efforts on individual projects have provided tangible benefits to the environment and in the long run also reduced capital costs, running costs and maintenance requirements. Numerous examples of our contributions to the design process go beyond simply meeting current regulations. These will be of significant relevance to projects within this commission.

Many of our projects include sustainable features particularly associated with the M & E Services, recent designs have incorporated the following measures:

- Homerton University Hospital Operating Theatre Extension and PUCG schemes include heat recovery ventilation systems and energy saving controls to take advantage of free cooling using outside air.
- Derbyshire Police Authority Glossop Police Station includes heat recovery in the ventilation to the cells and office areas.
- The Open University Perry Building Laboratory conversion includes heat recovery and energy saving controls to the cooling and ventilation systems.
- All projects incorporate energy efficient lighting equipment and controls.

All of these energy saving features have had to be coupled with the upgrade of the building fabric to improve Thermal efficiency, air tightness and solar control.

Thermal Modelling

QMP utilize information derived from thermal modelling software in the design of buildings. This aid has enabled us to provide comfortable summer temperatures without the use of mechanical air conditioning. The appropriate incorporation early in the design process of natural ventilation, building thermal mass, solar shading, mixed mode cooling and other energy saving system has also allowed us to develop a sustainable building. Recent projects where this technique has been used successfully include:

- City University Drysdale Building Undergraduate Business School Refurbishment
- Open University Milton Keynes, Perry Building Technical Block Refurbishment
- Open University Milton Keynes, West Perry Building Refurbishment
- Milton Keynes Council, Giles Brook School, Tattenhoe – Remedial works
- Aylesbury Police Station New Administration Block for Thames Valley Police

QMP Environmental Statement

All projects must comply with Part L2 of the current Building Regulations regarding energy use and carbon emissions: -

- This compliance will be demonstrated by calculation working closely with the appointed Mechanical Consultant.
- Where technically and economically feasible design solutions will improve upon the minimum standards required by the Building Regulations.
- Thermal modeling software is used to allow detailed investigation to be carried out into solar shading, ventilation and building thermal response. This allows design solutions to be proposed which ensure thermal comfort without resorting to mechanical refrigeration with associated ozone depleting chemicals and long-term carbon emissions.
- Annual energy consumption and running costs can be calculated as part of the mechanical design process.
- Natural lighting of occupied spaces is designed using modeling software, this allows satisfactory light levels to be achieved without the use of electrical power for a significant proportion of the occupied hours.
- Where applicable alternative technical solutions will be assessed for long term costs and carbon emissions.
- In applications where a BREEAM assessment is required this will be developed by the Mechanical Consultant in combination with the other members of the project team, starting early in the design process.

Note:-

Projects with Very Good BREEAM accreditation or better:-

- 1) Refurbishment of Sowe Valley Primary School for Coventry City Council (on-going project)
- 2) CCMC Call Centre Building for Derbyshire Constabulary (on-going project)