

Climate Change

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UK Energy Use

- **BUILDINGS** (construction and operation)
 - Energy is used to produce construction materials and run the buildings' heating, cooling and lighting systems and appliances
 - Energy use in buildings accounts for 46% of the UK energy consumption
- **TRANSPORT**
 - Energy use in transport account for 33% of the UK energy use
- **INDUSTRY**
 - Energy use in industry accounts for 21% of the UK consumption

Climate Change Impacts

- The climate change we expect in the next 30-40 years will be due to our past greenhouse gas emissions. Climate change later this century will be determined by the CO2 emissions we allow now.
- Climate Change over the next few decades is likely to mean
 - milder, wetter winters and hotter summers in the UK
 - that sea levels will continue to rise
 - increased number of extreme weather events
 - increased flood risk

Climate Change Impacts

Impact will be wide-ranging

- flooding and emergency planning
- waste collection and disposal
- planning and built environment
- property management
- provision of health services
- insurance cover
- biodiversity
- transport links

Health Impacts

Climate change would mean that by 2050:

- cold-related winter deaths are likely to decline substantially - possibly by as much as 20,000 per year;
- heat-related summer deaths are likely to increase to around 2,800 per year;
- cases of food poisoning are likely to increase by about 10,000 cases per year;
- indigenous malaria could re-establish by 2050;
- the risk of major disasters caused by gales and coastal flooding is likely to increase significantly;
- effects of air pollutants on health are likely to decline, but effects of summer ozone may increase.

Local Authorities and Climate Change

- UK Climate Change Impacts Programme
- London Plan policies/London Climate Change Agency
- PPS 22 Renewable Energy
- PPG 25 (draft) Flood Risk Assessment
- Sustainable and Secure Buildings Act
- Emerging National Code for Sustainable Buildings
- EU Directive - energy use in public buildings
- BREEAM/ECOHOMES
- Audit Commission Review (CPA 2005)
- Sustainable Transport Initiatives