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Portsmouth Hospitals NHS Trust

Isle of Wight NHS Primary Care Trust

the NHS and CO₂....

- The NHS emits almost 1 million tCO₂ per year
- Emissions are due to....
 - Open 24 Hours/day - 7 Days/week - 52 weeks/year
 - Constant occupancy
 - Lighting/Heating/Cooling/Hot Water
 - Intensive use of electrical diagnostic and therapeutic equipment and IT systems
 - Significant power demand
 - Air conditioning

Reducing NHS CO₂

- Department of Health Targets for NHS Trusts
 - Reduction of primary energy use by 20% from 1990 to 2000
 - Reduce primary energy consumption by 15% between 2000 and 2010.
 - All NEW hospital buildings to achieve energy performance of 35 to 55 GJ/100m³
 - All EXISTING hospital buildings to achieve energy performance of 55 to 65 GJ/100m³
 - New PFI funded developments have been specified with energy performance targets
- DoH environmental co-ordinator and healthcare specific guidance
- Annual reporting of energy consumption, cost and CO₂ emission for all NHS Organisations
- £100 million capital fund dedicated to carbon reduction

the local NHS...

- Each year the NHS on the Island...
 - Emits 7000 tCO₂
 - Consumes 95,000 GJ of energy
 - Spends £1 million on energy
- Activity is increasing due to Government targets
- Technology is demanding more powerful and complex services
- Buildings are increasing in size, complexity and density

commitments....

- Secure funding for positive investments in energy efficiency....
 - Refurbish existing Combined Heat and Power (CHP) installation
 - Additional CHP and tri-generation (cooling)
 - Decentralisation of steam heating systems
 - Replacement building management system and many more utility meters
- Commit resources to energy management

...and aspirations...

- Promote energy awareness among NHS staff
- Incorporate low carbon design principles and technologies in all new building developments
- Evaluate alternative low carbon technologies
- Collaborate with others to share facilities and infrastructure
- Work with local organisations to pursue alternatives to energy procurement, energy sources and energy use

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