



Guidance on Green Purchasing

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The Council is committed to reducing the impacts it causes to the environment, many of which relate to its procurement of supplies, goods and services. This Green Purchasing Guidance has been produced to provide advice on purchasing decisions to conserve energy and resources, and reduce waste and pollution. The Guidance will also enable the Council to contribute to greening the supply-chain by supporting, and participating in, the trading of more environmentally sustainable supplies, services and works.

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<u>HOW TO USE THIS GUIDANCE</u>	<p>This guidance should be used when purchasing all supplies, services and works and when establishing the conditions of a contract with goods or/and service providers. This guidance is to help you take into account the longer-term benefits and costs when selecting a product or item of equipment. By reviewing the entire life-cycle of a product or equipment you can choose more environmentally, and economically, sustainable products. A life-cycle analysis includes identifying the environmental effects during manufacture, packaging, transportation, waste and disposal issues, as well as the environmental effects, such as energy and resource consumption, during use.</p>
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Selection criteria using life-cycle analysis

A life-cycle analysis requires taking account of the total cost of a purchase – assessing not only the immediate purchase price, but other costs such as:

- Direct running costs (e.g. energy, water and other resources used over the lifetime of the product or service)
- Indirect costs (e.g. less energy efficient IT equipment will produce more heat, causing plant in air conditioned buildings to work harder to remove it, so adding to the electricity bill)
- Administration costs (e.g. overheads from purchases that require special handling and disposal such as certain pesticides and cleaning products)
- Spending to save – (e.g. purchasing more durable or energy efficient products which may initially be more expensive, but results in long term savings)
- Training – (e.g. if the product is not user friendly it may entail time, money and effort being expended in training staff to operate it)
- Recycling capabilities – (e.g. purchasers can create markets for their own waste such as paper, toner cartridges etc by buying products containing recycled materials)
- Specifying refurbished product (e.g., not generally insisting on new items when refurbished parts or products could be used)
- Cost of disposal – e.g. it may be worth paying a premium to a supplier giving an undertaking to remove the product or a hazardous substance at the end of its useful life)

There are a number of recognised standards such as energy efficiency ratings, recycled material contents, and environmental friendliness to help you with your ‘analysis’ (see information on some of the logos and standards to look out for, later in this document). Note, however, many brands claim to be ‘environmentally friendly’. If a product makes an environmental claim it should carry an explanation about why it is less harmful to the environment than other products.

When assessing a product’s disposal options follow DEFRA’s (Department for Environment, Food & Rural affairs) ‘Waste Hierarchy’:

- Reduce – Only buy something when absolutely necessary.
- Re-Use – Have systems in place whereby furniture, equipment and other office items can be re-allocated within the council instead of discarded.
- Recycle – Specify that the supplier of the item should operate or subscribe to a take-back scheme for packaging and unwanted/spent items, which can be re-used or recycled.

Aims

Increase	Decrease
<ul style="list-style-type: none"> • use of recycled building materials particularly when contracting for a refurbishment • recyclability and recycling of products at end of use • use of bio-degradable items and using durable rather than “disposable” items • Consideration of natural materials over synthetic ones producing harmful emissions • awareness of specific environmental innovations available – e.g. ultra efficient gas-condensing boilers • habitat creation and enhancement, e.g. creating green space as part of new developments 	<ul style="list-style-type: none"> • use of hazardous materials – e.g. certain pool chemicals, certain wood preservatives, HCFCs etc. • use of products entailing hazardous substances during manufacture – e.g. solvents/lead in paints • energy and water use – e.g. specify energy efficient lighting, water saving fittings/plant • resource use – e.g. minimise packaging and amount of products used (e.g. cleaning products) • use/destruction of endangered resources/habitats – e.g. use of tropical hardwoods • pollution (including noise) e.g. switch to greener fuels, specify products with low volatile organic compound emissions

Also

<ul style="list-style-type: none"> • Minimise the amount of materials consumed. • Buy goods that are made from recycled materials and/or are recyclable. • Arrange with suppliers to minimise packaging and/or take packaging back for reuse/recycling. • Use more durable products. • Maintain & repair equipment so as to extend its life. 	<ul style="list-style-type: none"> • Buy energy efficient appliances. • Use vehicles that are less polluting.
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ADVISE ON PRODUCTS AND SERVICES

Office Equipment and Stationery

<p>Stationery and other office products are the Councils most common purchases. A large number of Council officers are responsible for ordering these products. Many stationery products are seen as cheap, disposable items however they can have a significant environmental impact, especially as they are usually purchased in large quantities.</p> <p>Issues</p> <p>Several of the substances used to manufacture stationery items can have adverse effects on the environment including:</p> <ul style="list-style-type: none">• Plastics – manufactured from renewable oil resources which are non biodegradable.• Solvents – adhesives, correction fluids and spray mounts can contain solvents which deplete the ozone layer and release volatile organic compounds which cause air pollution, smog and respiratory irritation.	<p>Good Practice</p> <ul style="list-style-type: none">• Buy items that can be reused e.g. refillable highlighters, marker pens.• Buy items that are recycled and recyclable such as cardboard files.• Use solvent free, water-based adhesives, highlighters, marker pens and correction fluids.• Buy solar powered calculators.• Avoid plastic coated paper clips and reuse them whenever possible.• Avoid pencils made from hardwood.• Avoid writing implements (e.g. marker pens and correcting fluids) which contain xylene or other solvents that damage the environment.• Purchase pens and pencils made from recycled materials.
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<p>Paper</p> <p>The Council is committed to reducing the amount of paper it consumes, to purchasing more recycled paper and increasing the recycling of waste paper</p> <p>Issues</p> <ul style="list-style-type: none"> • Some paper is produced from timber grown on intensively managed, single species plantations, managed with high levels of chemical fertilisers and pesticides. These methods can lead to loss of topsoil, lowering of the water table and loss of biodiversity. • The Forest Stewardship Council (FSC) promotes environmentally, socially and economically beneficial forest management, and the FSC logo identifies paper products that are sourced from sustainable managed forests • Paper production requires high amounts of energy, which contributes to deforestation, global warming and acid rain. • Paper production can involve pollution through use of chemicals – the bleaching process used to whiten paper can involve the use of chlorine gas and production of toxic dioxins. There are now different processes available, which use oxygen, hydrogen, sodium peroxide, soap or more efficient pulping techniques and eliminate the need to use chlorine bleach. • Paper produced from new wood pulp uses very large volumes of water. 	<p>Claims To Watch Out For</p> <ul style="list-style-type: none"> • Sustainable paper – some manufacturers claim their paper is sustainable because for every tree felled another is planted, however if natural forest is replaced with single species plantations, diversity is reduced and soils may become acidified. • Recyclable paper – all paper is recyclable. • Recycled paper – any paper that contains over 55% recycled content may be described as recycled. This can be misleading as some companies produce paper labelled as recycled when it is made only from a mix of unused waste from the paper mill and virgin pulp. • Wood free – this does not mean that the paper contains no wood fibres, but rather a term used for virgin pulp produced by a chemical rather than a mechanical pulping process. <p>Good Practice</p> <ul style="list-style-type: none"> • Reduce the amount of paper used e.g. use scrap paper for notes etc; do double-sided photocopying and printing when possible; write on both sides of the paper; avoid unnecessary multiple copies; use a central memo board; use email and resist printing off copies of messages; circulate correspondence than making individual copies; reuse envelopes especially for internal distribution. • Avoid post it notes as the adhesive makes them impossible to recycle • Purchase 100% recycled paper wherever possible, comprising of at least 75% post consumer waste for photocopying/computers, all other stationery including files, binders, storage boxes etc.
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- If it is necessary to purchase virgin paper ensure that it carries the FSC logo, to certify it is from a sustainable source.
- Avoid purchasing paper which uses chlorine in the bleaching process.
- Specify recycled paper when commissioning publications.
- Always dispose of waste paper that cannot be reused via the “green bin” for recycling.
- Purchase paper with Blue Angel, NAPM and Nordic Swan standards.
- Remove names from junk mail listings – to do this at the mailing preference service Dept 97, Freepost, London, W1E 7EZ. Tel 08457 034599.

Purchase Recycled Paper

- Making pulp paper from recycled waste consumes up to 50% less energy than using trees.
- Fewer chemical processes are involved in the production of recycled paper reducing the polluting effect of any waste released into rivers and seas
- Increasing the demand for waste paper for recycling means less paper will go to landfill where it releases methane, a greenhouse gas, as it decays.
- Reduces the pressure for more plantations where natural forests still exist – therefore protecting wildlife habitats and local ecology.
- Recycled paper production uses up to 50% less water.

Paper Classification Schemes

The British Paper and Board Industry Federation

Used to identify the type and volume of waste paper in a product. The letters indicated below prefix the percentage of that type of waste included in the paper.

A – unused mill waste **B** – unused printers’ offcuts **C** – white office waste **D** – low quality waste [E.g. a classification of 50B/50C would indicate the paper is comprised of 50% unused printers’ offcuts and 50% office waste.

NAPM Recycled Logo

The National Association of Paper Merchants (NAPM) standard indicates the paper is comprised of a minimum of 75% post consumer waste paper. The standard does not include unused mill waste as recycled paper.

<p>Blue Angel</p> <p>A German standard which certifies that the paper is made from 100% waster paper of which at least 51% is low or medium grade</p> <p>Nordic Swan</p> <p>A Scandinavian standard based on emissions to air and soil that applies to both virgin and recycled paper. It sets emission limits for several potentially harmful factors. Including the chlorine and sulphur dioxide produced during the pulping process.</p> <p>TCF – Elemental Chlorine Free</p> <p>This process does not use pure chlorine, instead it uses a very small amount of chlorine dioxide to bleach pulp. This reduces the amount of chlorinated compounds produced, but is less sustainable than the totally chlorine free method.</p> <p>TCP – Totally Chlorine Free</p> <p>Indicates that no chlorine has been used during pulping. Instead the paper is bleached using less harmful hydrogen peroxide.</p>	<p>IT Equipment</p> <p>IT Equipment is procured via a preferred supplier through a contract managed by IT Services. Environmental criteria are addressed in the tendering process and all potential suppliers are required to provide information about the environmental performance of their products, in order to make a comparison. The purchase/easing of photocopiers is managed on the Council's behalf by Staffordshire County Council through the Procurement Unit.</p> <p>Issues</p> <ul style="list-style-type: none"> • Energy – their manufacture and use adds to the depletion of the world's resources and contributes to global warming and acid rain. • Raw materials – using metal, plastic and glass contribute to depletion of the world's finite resources. • In the UK office, equipment makes up 20% of office energy use, nearly two thirds of this is due to monitors and PCs. Many models now incorporate sleep or standby modes that can result in energy savings of up to 70%. • Visual display units – can be a health risk if they do not comply with EC regulations. • Office equipment, such as laser printers and photocopiers, produce ozone during use which causes air pollutant, cause smog and irritate the eyes, nose and throat. • Disposal – replacement may be frequent due to new advances in technology and difficulty of upgrading or repairing. Recycling is difficult due to many different components incorporated.
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Good Practice

- Consider carefully before replacing old model – is the new one really necessary? – Can you upgrade?
- Purchase computers/machines which can easily be upgraded, repaired etc.
- Purchase from manufactures who take back appliances at the end of their useful life.
- Purchase suitable reconditioned/remanufactured equipment.
- Buy equipment that is energy efficient, for example PC's, monitors and printers that meet 'Energy Star' requirements.
- Ask for details of average and standby power demands.
- Buy equipment with an automatic sleep or power down mode.
- Ensure photocopiers, printers and fax machines can cope with all types of recycled paper.
- Ensure equipment can produce double sided copies and set equipment to default to printing double sided.
- Purchase laser printers and photocopiers that have an ozone filter.
- Purchase from manufacturers that do not use ozone-depleting substances in manufacturing process.
- Use recycled toner cartridges and collect used toner cartridges for recycling.
- Turn of monitors and computers when not in use.
- Ensure redundant computers are recycled.

Energy star label

This is awarded to equipment/units with less than 30 watts of energy consumption on stand by, and a quick re-start. Note: some Energy Star models achieve much lower energy use on stand-by than others.

<p>IT Consumables</p> <p>Issues</p> <ul style="list-style-type: none"> • Over 3 million toner cartridges are disposed of to landfill sites each year in the UK and consumption is rising by about 15% per year. Toner cartridges waste comprises of plastic that is made from non-renewable oil, metal and residual toner, most of which will not degrade for thousands of years. <p>Good Practice</p> <ul style="list-style-type: none"> • Use fewer toner cartridges. Circulate more information by e-mail and avoid printing. • Avoid leaving the lid up when photocopying as this uses more toner. • Buy recycled printer ink cartridges. • Buy cartridges with vegetable based inks. • Buy toners that are non-toxic and free from identifiable carcinogenic substances. • Buy remanufactured and/or refillable toner cartridges for laser printers and photocopiers. 	<p>Electrical Appliances</p> <p>Appliances, such as fridges and microwaves must be energy efficient. Energy efficiency of a product should be assessed when replacing old appliances (Category A and B for products carrying an EC energy label). It is preferable to purchase equipment which runs on mains electricity rather than batteries (batteries take 50 times more power to manufacture than they can ever provide). However, where batteries are required, rechargeable batteries should be selected.</p> <p><u>Light bulbs</u></p> <p>Energy saving light bulbs use only 20% of the energy normal light bulbs use. They last 8 times as long as an old-fashioned light bulbs and over the whole lifetime are much cheaper despite higher initial cost.</p>
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<p>Batteries</p> <p>Issues</p> <ul style="list-style-type: none"> • Batteries require more energy to produce than they actually generate. • Lead acid batteries used in vehicles and some power tools – the battery acid and lead salts can cause environmental contamination. • Cadmium/mercury batteries – used batteries represent a potential for harm to human health and the environment because of the toxic heavy metals, such as cadmium and mercury, that some of them contain. The elements can leak out into the soil when disposed of in landfill sites, or cause air pollution when incinerated. <p>Good Practice</p> <ul style="list-style-type: none"> • Avoid buying equipment which requires batteries if at all possible. Use mains operated appliances or solar powered appliances e.g. calculators. • Purchase lead acid batteries with minimum lead plus maximum life. • Buy rechargeable batteries – although they contain higher cadmium levels than standard batteries they can be used up to 500 times before disposal. • If you must buy standard batteries choose those which have a reduced mercury level preferably with zero mercury content. • Avoid zinc carbon and zinc chloride batteries, these are cheap and widely used, but they contain polluting metals and have a high output. • Buy batteries only from manufacturers or suppliers that operate take-back schemes for recycling them at the end of their life. 	<ul style="list-style-type: none"> • Purchase solar powered calculator/pumps/watches/radios etc. <p>Ozone Depleting Substances</p> <p>Issues</p> <p>The ozone layer lies about 15-20 kms above the earth's surface and acts as a protective screen by absorbing some of the sun's ultraviolet radiation. Certain human made substances have been found to deplete the ozone layer, resulting in an increased risk of skin cancer and eye cataracts and adverse effects on aquatic systems and vegetation.</p> <p>Ozone depleting substances include:</p> <ul style="list-style-type: none"> • Chlorofluorocarbons (CFs), hydrochlorofluorocarbons (HCFC's) and hydrobromofluorocarbons (HBFC's), which are used in refrigerants, air conditioning, aerosols, furniture and thermal insulation foams and blown polystyrene packaging. • Halons, which are used in fire extinguishers have been recognised as having the highest ozone depleting potential of all human made substances. • Carbon tetrachloride and 1, 1, 1 trichloroethane, which are solvents used in adhesive, correction fluids, cleaning products, paints and varnishes. <p>Methyl bromide, used as a pesticide.</p>
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<p>Good Practice</p> <ul style="list-style-type: none"> • Specify against all products that contain or have used ozone depleting substances in their manufacture. • Hydrocarbon refrigerants such as pentane and butane are currently considered the most environmentally preferable for use in fridges and freezers. • Avoid MFC and HCFC propellants and give preference to pump action sprays instead of aerosols • Avoid furniture that contains foam manufactured with the use of ozone depleting substances. • Avoid thermal insulation, which is manufactured with the use of ozone depleting substances, instead use mineral wool, shredded paper waste or sheep's wool insulation. • Wherever possible and in consultation with experts replace halon fire extinguishers. • Avoid excess packaging especially polystyrene foam. • Give preference to manufacturers who take back packaging after use. 	<p>Cleaning Materials</p> <p>Issues</p> <p>Cleaning materials contain chemicals that can cause pollution:</p> <ul style="list-style-type: none"> • Phosphates – in detergents cause damage to water supplies are responsible for eutrophication; overloading watercourses with nutrients leading to algal blooms, killing water wildlife. • HCF's and CFC's – some cleaning materials are supplied in aerosol form which may use chlorofluorcarbon (CFC) propellants. These have a depleting effect upon the ozone layer, which shields the Earth from damaging ultraviolet rays from the sun. This can cause cancers and crop damage, and contribute to global warming. • Optical brighteners, synthetic perfumes and colourings – these substances make no real difference to the cleaning process and they can be environmentally damaging, as they are slow to biodegrade. • NTA and EDTA – foam building agents added to cleaning products, which can react with lead and mercury lying dormant at the bottom of riverbeds, releasing the heavy metal and enabling them to enter the water supply. • Toilet blocks – may contain Paradichlorobenzene (PDCB), which may have an adverse effect upon aquatic plants and marine life.
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<p>Good Practice</p> <ul style="list-style-type: none"> • Examine cleaning methods – could the purchase of cleaning products be reduced by reducing the frequency of cleaning or ensuring concentrated detergents are correctly diluted. • Purchase products that are biodegradable, where possible try to ensure they are 100% biodegradable. • Purchase phosphate free detergents. • Purchase HCFC/CFC free aerosols; avoid aerosols use pump action recycled plastic containers. • Purchase toilet blocks, which are PDCB free and biodegradable. • Buy products, which don't contain optical brighteners or synthetic perfumes. • Buy cleaning products based on vegetable oils such as palm or coconut oil as these break down more quickly than petroleum oils. • Avoid products, which contain chlorine bleaches, instead purchase products based on fruit and organic acids. • Avoid products that have been tested on animals. 	<p>Paints</p> <p>Issues</p> <p>Many paints and varnishes contain potentially hazardous substances that can have adverse environmental effects during manufacture, use and disposal. These include:</p> <ul style="list-style-type: none"> • Heavy metals – these can pollute soil and watercourses and affect the health of humans, animals and plants • Solvents – which deplete the ozone layer and release volatile organic compounds (VOC's) which can cause air pollution, smog and respiratory irritation • Titanium Dioxide – a white powder added to paint to produce brilliant whites. Manufacturing the powder uses high levels of energy and water and results in discharges of chlorine, which is highly toxic to all living organisms, and sulphur dioxide emissions that contribute to acid rain. <p>Good Practice</p> <ul style="list-style-type: none"> • Purchase paints and varnishes which conform to UK Regulations on heavy metals, such as cadmium, lead, mercury and chrome. • Use paints coloured with natural pigments • Avoid white paint that contains titanium dioxide. Ensure no paints include hazardous substances listed on the UK Red List or EU Black and Grey Lists. • Avoid paints that contain solvents. • Specify a preference for paints and varnishes that are water based or based on plant oils such as linseed oil. • Use high quality paints, needing less frequent repainting. • Dispose of paint tins carefully.
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<p>Food and Catering</p> <p>Issues</p> <ul style="list-style-type: none"> • Intensive agriculture depends upon extensive uses of pesticides, herbicides and fertilisers. • Transporting food over long distances contributes considerably to global warming and does nothing to support local farmers and food producers. • Wildlife – intensive farming practices change harvesting regimes, destroy habitats and need large buildings in the countryside. <p>Good Practice</p> <ul style="list-style-type: none"> • Purchase locally farmed produce to reduce transporting food over long distance and to support the local economy. • Purchase organic food grown without pesticides, herbicides or artificial fertilisers. • Buy animal products that have not been farmed using intensive factory farming methods. • Buy food packed in returnable boxes using the minimum of packing. • Buy unprocessed food not convenience foods. • Buy Fairtrade products. 	<p>Fair Trade products</p> <p>Fairly traded products are those where the growers in developing countries receive a larger share of the price you pay. Fair trade association and co-operatives use methods such as fixed advanced payments and in some cases contribute to local healthcare and education. Procurement of Fairtrade tea, coffee, sugar etc for Council catering can be specified in catering orders with Fairtrade Suppliers. Fairtrade products include tea, coffee, cocoa, rice, fruit and sugar. Many of these are organic too.</p>
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<p>Organically-grown food</p> <p>Organic fruit and vegetables are grown without using artificial chemicals, using methods that keep the soil in a healthy balance. Organic dairy products and meat come from animals fed with organic food. This approach makes organic food more environmentally friendly than conventional food with a reduced risk of diseases and chemical residues.</p> <p>Beware of terms like ‘natural’, ‘from the farm’, ‘country’ etc. which have no defined meaning. The word ‘organic’ is legally protected. The Soil Association is the main organisation in the UK that checks ‘organic’ food. Look out for their logo or for a European certification label.</p> <p>Buying organic food is not always the most environmentally sound option if you take into account the environmental impacts of transporting goods. However, supporting local organic farming is recommended if extra cost is not prohibitive, since organic farms are generally smaller-scale, employ more people and receive fewer subsidies than conventional farms do.</p>	<p>Ground Works, Parks and Open Spaces</p> <p>Issues</p> <ul style="list-style-type: none"> • Pesticides – contain chemicals that may have a harmful effect on health and the environment. Water-soluble pesticides have the potential to contaminate ground water. They can persist in the soil, prevent germination of seedlings, can be leached from the ground and are frequently detected in water supplies. Chemically stable, fat-soluble pesticides can spread widely by wind, rain and water movement and their concentration can accumulate to levels that may be toxic to fish and wildlife. • Peat – extraction of peat destroys rare wetland habitats. • Global warming – The transport of products over long distances contributes significantly to global warming and traffic congestion. <p>Good Practice</p> <ul style="list-style-type: none"> • Do not use pesticides or herbicides unless essential. If you do have to use them minimise use through good management e.g. using the correct concentrations. • Use natural weed control such as cutting and manual weeding. Apply mulches around plants to suppress weed growth. Use manual traps and encourage natural predators. • Ensure all pesticides are COSHH registered. • Ensure contractors hold a Certificate of Competence as required by the Control of Pesticides Regulations 1986. • Avoid all pesticides on the UK Red List and EU Black and Grey lists of hazardous substances.
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<ul style="list-style-type: none"> • Give preference to non-residual pesticides that break down in contact with soil. • Choose species specific pesticides to reduce damage to harmless wildlife. • Specify against pesticides that deplete the ozone layer such as methyl bromide. • Avoid products with wood preservatives containing pentachlorophenol (PCP), lindane and tributyl tin oxide (TBTO). • Avoid using residual herbicides. Systematic herbicides, which act through contact, are preferred for environmental reasons, as they break down before they reach watercourses. • Minimise the use of new building and surfacing materials by using reclaimed brick and building stone and recycled aggregate. • Select timber from sustainable sources, such as FSC products or equivalent. • Select construction material that minimises the impact on the ozone layer. • Minimise the use of PVC products. • Use recycled plastic outdoor wood substitutes. Including benches, fencing, signs and posts. • Purchase dustbins made from recycled plastics. • Choose water-based and remanufactured paints and do not use paints which contain lead. 	<p>Vehicles And Fuels</p> <p>Issues</p> <p>Petrol and diesel engines produce:</p> <ul style="list-style-type: none"> • Air pollution – caused by carbon dioxide, nitrogen oxides, sulphur oxides, particulate matter, lead. All these pollutants not only lead to environmental damage, such as acid rain and global warming, but can also damage human health e.g. asthma. • Cars consume enormous amounts of energy in their manufacture and use. • Car production leads to enormous waste and cars create a problem of e.g. tyres. • Car use is increasing and with it the land use and habitat destruction from road building and maintenance.
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<p>Good Practice</p> <p>Reduce the use and impact of vehicles by:</p> <ul style="list-style-type: none"> • Using the phone. • Video conferencing. • Sending an e-mail. • Reduce your journeys – are they really necessary? • Use public transport, cycle or walk. • Car sharing using the recently launched web based car sharing scheme www.share-a-lift.com • Regular maintenance. • Driver training. • Using cleaner formulations of conventional fuels where available e.g. ultra low sulphur diesel and petrol. • Fitting vehicles with catalytic converters and particulate traps. • When purchasing or leasing new vehicles look at fuel efficiency. • Wherever possible consider reducing the size and power of vehicles. • Look at alternative technologies that produce less air pollution e.g. vehicles running on compressed natural gas, biodiesel, liquid petroleum gas and electric. • Switch to new high efficiency diesel engine vehicles running on fuel containing no lead and using less fuel, with very low particulate matter. • Consider using retread tyres and re-refined oil. 	<p>Timber Products</p> <p>Issues</p> <ul style="list-style-type: none"> • Timber and wood products are sustainable – trees lock in carbon dioxide from the atmosphere and help reduce global warming – the CO₂ remains locking in, until it decomposes. • Using tropical timber products leads to deforestation, loss of wildlife habitats, extinction of species and soil erosion as well as unbalancing the earth's climate. • Forestry – some timber comes from carefully managed plantations where new trees are continually being planted, but much timber comes from exploitation of natural forests which results in loss of wildlife habitats, replacement of natural forests by plantations, use of pesticides, soil erosion caused by large areas being clear felled. <p>Good Practice</p> <p>Purchase timber and products from sustainable forests – those that take into account environmental implications. There are labelling schemes for sustainable timber e.g. the Forest Stewardship Scheme. (FSC)</p> <ul style="list-style-type: none"> • Do not buy products made from tropical hardwood. • Use timber from native sustainably certified sources in Europe. • Consider buying reclaimed timber and products made from reclaimed timber. • When purchasing plywood and chipboard ensure they are manufactured with low formaldehyde resins and without formaldehyde glue, and from sustainably managed forests.
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- Where solid wood veneers are used ensure they are at least 0.9mm thick, thinner veneers are less durable and can make repairs difficult and expensive.
- Purchase durable furniture and fittings with at least a five-year warranty.

The Forrest Stewardship Council (FSC) is committed to bridging the gap between responsible producers and consumers of forest products world-wide. It enables producers who can demonstrate sound forest management to reach consumers who wish to have an independent guarantee that the forest or woodland of origin is managed according to agreed social and environmental principles and criteria. THE FSC producers have to operate with 10 standards covering social, environmental and economic aspects of forest management.

The Greenpeace 'The Good Wood Guide' provides information on timber from unsuitable sources.

Office furniture

Before purchasing new furniture check the availability of second-hand furniture within the Council. Any new wooden furniture must have the FSC label or equivalent.

Appendix A

Full List of Environmental Standards

Generic Systems

European Union Eco Labelling Board (EU Flower)

Open to manufacture of all goods and services with the exception of food, drinks and medical products. Some of the other product/sector specific labels may also come within the EU flower certification. 17 product areas are agreed, 4 pending (see table 2 below).

<http://europa.eu.int/comm/environment/ecolabel/>

Ethical Consumer Magazine

Ethical “Best Buys”

Includes social and environmental profiles of companies – with recommendations for “Best Buys” based on company performance across a range of ethical issues. Also indicates non-recommended products.

<http://www.ethicalconsumer.org/>

Swedish Standards Institution (Nordic Swan)

Introduced by the Nordic Council of Ministers in 1989, to encourage production methods that create the minimum environmental impact. The criteria are based on the environmental effects of the manufacturing process rather than the selection of raw material.

<http://www.ecolabel.no/english>

<http://www.sis.se/english/default.htm>

Whole Service

Eco-Management and Audit Scheme (EMAS verified)

Contractors use this symbol if they are EMAS registered i.e. have assessed their significant environmental impacts, set long term objectives, pursue annual targets to meet those objectives, monitor progress against these targets and have a publicly reported environmental statement of annual progress.

<http://www.emas.org.uk>

International Standards Organisation (ISO 14001)

Contractors can be ISO 14001 certified if they have assessed their significant environmental impacts, set long term objectives and pursue annual targets to meet those objectives and monitor progress against these targets. They are not required to release the monitoring data.

<http://www.iso14000.com/>

Energy Using Products

US Environment Protection Agency (Energy Star)

Energy Efficiency scheme for a range of office equipment – including ICT, air conditioning and heating, lighting. The list of products labelled under the scheme can be found at the web address. NB these are mostly US products so may be more applicable to UK procurers in areas like ICT rather than say, ice-cube machines!

http://www.epa.gov/nrgystar/purchasing/2d_products.html#oe

Energy Saving Trust (Energy Saving Recommended)

The consumer-focused logo appears on a range of products including fridges, freezers, dishwashers, washing machines, tumble dryers, light bulbs, gas boilers and heating controls. It complements the European Union's Energy label, which rates appliances on a scale of 'A' to 'G' with 'A' being the most efficient and 'G' the least. An online database is available allowing a search against products or specific brands.

<http://www.energysavingtrust.org.uk/myhome>

Other energy systems

The Carbon Trust

Government funded, non-profit company, that works with business and public sectors to cut carbon dioxide emissions. Information and guidance on saving energy including Action Plan toolkit:

<http://www.thecarbontrust.co.uk/energy/pages/home.asp>

Green Power Purchasing Guide

<http://www.practicalhelp.org.uk/pdf/gpww.pdf>

Housing

UK Government's domestic property energy efficiency scoring system (The Standard Assessment Procedure (SAP))

A scale from 1-100. NB a fully rated property should also include an estimate of the amount of carbon dioxide (CO₂ – the main greenhouse gas) emitted each year as a result of the home's energy use.

NHER

National Home Energy Rating

The NHER is the UK's largest energy rating scheme. The scheme provides energy professionals with training, software, information and technical support in order to produce quality assured SAP energy ratings.

Natural products

The Soil Association (Organic Symbol)

The Soil Association symbol is a national independent quality mark (operating under EU Regulation No. 2092/91) for organically grown food and other products, such as compost. The symbol is recognised by all the major supermarkets and independent retailers. It is awarded to farmers, growers, food processors, distributors, retailers and industrial manufacturers who follow the standards laid down by the Soil Association (no use of artificial chemicals in the production process and minimum animal welfare standards).

<http://www.soilassociation.org.uk/>

The Composting Association (Compost Quality Standard)

The aims of the Standards are to assist producers in maintaining consistent and reliable products and to encourage greater consumer confidence in composts.

<http://www.compost.org.uk/>

Fairtrade Foundation

The label certifies that equitable conditions of production and trading have been applied and cover the following products: bananas, cocoa, coffee, honey, orange juice, tea, sugar. Fairtrade producers have to sign up to minimum standards of environmental management.

<http://www.fairtrade.org.uk>

Marine Stewardship Council (MSC)

A sustainable fishery allows target fish populations to recover to healthy levels where they have been depleted in the past. This labelled product has been produced by an operation which supports the ecosystem upon which fish stocks depend and does not encourage overfishing.

<http://www.msc.org/>

Construction Materials

Forestry Stewardship Council (FSC)

Certified timber complies with a set of ten principles including biodiversity protection, reduced environmental impacts, protection of indigenous peoples' and workers' rights and sustainable replanting.

<http://www.foreststewardship.com/>

Building Research Establishment (BRE Environmental Profiling system)

Provides an A-C rating across a range of products for use in buildings.

<http://www.bre.co.uk/sustainable/service5a.html#database>

Environmental preference systems

Book-based "environmental preference" systems, such as the Handbook of Sustainable Building (available from the Association of Environment Conscious Building)

<http://www.aecb.net/books/material.htm>

Recycled Materials

RAL Deutsches Institute (German Quality Control Institute) (Blue Angel)

Since 1979. For recycled paper to qualify for the mark, it must be made of 100% waste paper (tolerance 5%), and contain at least 51% low grade or medium grade scrap and wastes. Recycled cardboard used for files should contain at least 30% low grade and medium grade waste. Other board products must contain 51% low grade and waste paper. All must be made with 100% waste paper (tolerance 5%). The Blue Angel logo is awarded to other products, with the criteria varying according to product category.

<http://www.ecomarket.org/label/bengel.html>

REZY symbol

The Rezy symbol indicates that shipping containers and packaging made of paper or corrugated board which carry it:

- Contain recycled content
 - Will be accepted for recycling by the German paper industry
 - Are recyclable
-

Duales System Deutschland GmbH (Green Dot, or Grune Punkt)

This symbol on packaging means that it complies with the German Packaging Ordinance for the return of consumer packaging – which shows it is recyclable, but not necessarily made of recycled materials.

<http://www.gruener-punkt.de/e/index.htm>

United Kingdom Cartridge Re-manufacturers Association (UKCRA)

The Association aims to provide printer users with proven high quality products, through its members, that are cost effective environmentally friendly alternatives to imported toner cartridges.

All UKCRA members have to meet, and then comply with codes of practice in a number of areas, these include:

- Conforming to minimum codes of re-manufacturing practice.
 - Conforming to labelling and packaging standards.
 - Meeting standards of general business practice.
 - Having a bona-fide warranty system in place.
 - Accepting mediation by UKCRA in disputes with customers.
-

Not controlled by any international body
UK point of contact in the National Recycling Forum/Waste Watch (“Recycled” symbol)

The symbol is only supposed to be used on goods that are ‘recyclable’ or include ‘recycled content’, but it has no precise meaning. The international Standards Organisation is proposing that a percentage figure be added to indicate what proportion of the branded item is made from recycled materials. A database of retailers and wholesalers which sell recycled products is available online, searchable by postcode, at...

<http://www.nrf.org.uk/buy-recycled/database/query2.asp> www.nrf.org.uk

Office of Government Commerce buying solutions (Watermark)

Initiative to give the public sector benchmarks for water consumption. Includes online calculator. L.A.s already using this system include: Gloucester County Council (CC) Kirklees Metropolitan Borough Council (MBC) South Tyneside MBC Southwark Council Wiltshire County Council Neath Port Talbot County Borough Council Mendip BC

<http://www.watermark.gov.uk/>

Vehicle Certification Agency

The VCA is the UK approved authority for the type approval of motor vehicles.

<http://www.vca.gov.uk>

Car Tax bands – New cars are also subject to different rates of vehicle excise duty (“road fund tax”) depending upon the band into which they fall. Cars rate in band A produce least pollution and have the lowest CO₂ emissions; as cars become less efficient the band rises to D. At current rates, D rated petrol cars £155 duty a year, but A rated cars only have to pay £100.

<http://www.vcacarfueldata.org.uk>

Vehicle Fuel Economy Labels

<http://www.carfueldata.org.uk/information/tests.asp>

A new “Comparative” label, introduced from July 2005, that shows the applicable Vehicle Excise Duty band for the car, the CO₂ figure and estimated annual running costs for the vehicle. The new label is intended to be familiar to consumers as it mirrors important aspects of the design and colour-coding of the energy efficiency labels that now appears on most ‘white goods’, such as refrigerators.

Appendix B

A Checklist For Sustainable Purchasing

- ✓ Does the product use fewer polluting by-products than competing products?
- ✓ Is the product durable and easily, safely, and economically serviced?
- ✓ Are any components or maintenance requirements, environmentally damaging?
- ✓ Are all the features of the product necessary?
- ✓ Is the company producing the product in compliance with all environmental laws and regulations?
- ✓ Are you aware of any product alternatives that are more environmentally responsible?
- ✓ Is the product designed to reduce consumption?
- ✓ Is the product designed to minimise waste?
- ✓ Is the product reusable?
- ✓ Is the product technically and economically recyclable?
- ✓ Do facilities exist to recycle the product?
- ✓ Are recycling collection systems in place at the point of end use?
- ✓ Can the product be returned to the supplier at the end of its useful life?
- ✓ Is the product compostable?
- ✓ Are recycled materials used in the product? If so, what percentage?
- ✓ What percentage of post-consumer materials is used?
- ✓ Is the product energy efficient? Can the product be recharged?
Can the product run on renewable fuels?
- ✓ Does the product reduce water use?

A Checklist For Sustainable Purchasing

- ✓ Does the product require special disposal?
- ✓ Is the product free of banned substances and heavy metals?
- ✓ Is the product free of toxic or endangered materials?
- ✓ Does the product emit volatile organic compounds (VOC's) or other air pollutants?
- ✓ Does the product require special use instructions for health and safety?
- ✓ Can the packaging be eliminated?
- ✓ Is the packaging designed to be minimal?
- ✓ Is the product packaged in bulk?
- ✓ Is the packaging reusable or recyclable?
- ✓ Are recycled materials used to produce the packaging?
- ✓ Can the packaging be returned to the supplier?
- ✓ Is the packaging compostable?
- ✓ Has a lifecycle analysis of the environmental burdens associated with the product or packaging been conducted by a certified testing organisation?
- ✓ Is the company producing the product, equipped to bid and bill electronically?
- ✓ Does the company have an environmental policy statement?
- ✓ What is the company's history on environmental and safety issues?
- ✓ Can the company verify all environmental claims?
- ✓ What waste reduction programs does the company have in place or have planned?
- ✓ Has the company conducted an environmental or waste audit?
- ✓ Is the company responsive to information requests from stakeholder.