Product: CRT monitors

Overview: CRT monitors are less efficient (50-70%) than LCD technology and cause more strain on the operator's eyes.[1] It is therefore recommended that LCD monitors are purchased in preference to CRT wherever possible.

Remanufactured monitors should be provided with a 12 month guarantee and assurance that out-of-warranty support will be comparable to that for a new monitor, and any new components fitted are RoHS (Restriction of use of Hazardous Substances) compliant if the original unit was put on the market after 1st July 2006. Suppliers should operate a take-back scheme that will recover unwanted end of life equipment.

Environmental Impacts	Cost Effectiveness	Market Availability	Competitive Market	Resource Savings	Potential for Increased Procurement to Affect the Market
1) Production and transportation energy, and use of hazardous substances. 2) Usage phase (major). 3) Disposal, particularly of plastics, screen glass and hazardous materials such as flame retardants and lead-based solder.	The price of CRT monitors is extremely low in comparison with an equivalent LCD monitor. However, the extra energy usage of CRT monitors must be considered. An average computer monitor will consume 60-75% of its total lifetime energy during the usage phase.[2]	There is no significant market for CRT monitors in the UK, other than for specialist applications with inbuilt monitors. Remanufacture is thus operating at a low level. Most are distributed by community projects.	Since LCD technology dominates, the market for new or remanufactured CRT monitors has all but disappeared. Many remanufacturers have exited the market, and those remaining compete with extremely low prices.	The remanufacture of electronic equipment generally consumes far less material than production of new and as remanufacture usually occurs within the UK the transport energy associated with the product is reduced. Using a responsible remanufacturing agent with a take-back scheme ensures that an end-of-life product will be disposed of correctly.	CRT technology is inferior to LCD in terms of energy consumption and usability. Support should be given not by procurement, but by the enabling of charitable reuse networks designed to equip local community projects.

[1] Power Levels in New Monitors and Personal Computers LBNL-48581, 2002
[2] US EPA study, 2001