

Lenovo Green Highlights October 2009 Update

Lenovo's Commitment to Sustainability

- Lenovo demonstrates corporate social responsibility everywhere we conduct business.
- Sustainability for Lenovo means taking care of the long-term economic, social, and environmental health of our company and the communities in which we operate.
- Lenovo is committed to green product leadership and is moving to make technology greener in terms of materials selection, energy efficiency, and product end-of-life disposal and recycling.

Product Design and Materials Selection

- Lenovo is committed to minimizing the environmental impact of its products. In order to implement this commitment, Lenovo's chemical and substance management policy supports a precautionary approach, ensuring Lenovo will take appropriate action even if some cause and effect relationships are not fully scientifically established.
- Lenovo supports the goal to phase-out¹ brominated flame retardants (BFRs) and PVC and is committed to driving its supply chain towards this goal. To this end, Lenovo has already released two PVC and BFR-free¹ monitors, the L2440x Wide and L2251x Wide, which are available globally², and has completely phased-out the use of PVC/BFR in all mechanical plastic parts (such as external covers, housings, etc.) across all Lenovo product lines. Lenovo plans to release additional BFR and PVC-free models across Lenovo's family of products in 2010 and 2011 as acceptable alternative materials become available, working towards the goal to phase-out the use of these materials across all newly introduced products in 2011. In addition, Lenovo continues to work with our suppliers to pilot new BFR and PVC-free applications, such as a pilot of BFR-free printed circuit cards in select ThinkPad model notebooks. Lenovo recognizes that the phase-out of these materials is dependent on the availability of suitable alternatives that meet Lenovo's technological, quality, environmental, health, and safety requirements.
- Lenovo uses the most stringent global standards for product design and environmental management. We are a global company, and where environmental standards differ from country to country, we use the strictest standards applicable.
- Lenovo's business model combines advantages of global scale and efficiency with engineering and innovation – which we get from Innovation Design Centers around the world.
- Materials selection enhances not only user experience (weight, durability, and aesthetics) but environmental responsibility as well. Most of our products are 90% recyclable. Many of our products also contain recycled content, including post consumer recycled content plastics.
 - The Lenovo M58/M58p Eco Ultra Small desktop contains 10% post-consumer recycled plastic in mechanical plastic parts.
 - Lenovo ThinkVision monitors contain 30% post-consumer recycled plastic in mechanical plastic parts.
 - Lenovo's USB Fingerprint Keyboard contains 35% post-consumer recycled plastic.
 - In October 2009, Lenovo launched the ThinkVision L2251x Wide monitor, the first PC monitor to be TCO Certified Edge. The chassis of the L2251x Wide uses 65 percent post consumer recycled plastics with an additional 20% post-industrial recycled content and no virgin plastics in the chassis.
- Since early 2008, Lenovo has used over 14 million pounds (gross) of plastic materials containing post-consumer content in Lenovo products, with a net post-consumer content of over 4 million pounds.

- Lenovo uses post-consumer recycled content in over 25 different products across multiple product lines, including all ThinkVision monitors and several desktop and workstation models. Lenovo is working with its suppliers to qualify post-consumer recycled content for use in notebook applications and which meet the unique performance characteristics required of materials used in mobile products.
- Lenovo desktops, notebooks, workstations, and monitors have passed extensive testing for up to 2,000 chemical emissions to be [GREENGUARD](#) certified.

Energy Efficiency

- In June 2009, Lenovo announced that more than 25 of its Think-branded business and Idea-branded consumer PCs met the new ENERGY STAR Version 5.0 Specification for Computers, which went into effect on July 1, 2009. Lenovo PCs including the ThinkPad [X301](#), [T400s](#), [W700ds](#) and the [IdeaPad U330](#) and [Y430](#) laptops and select [ThinkCentre M58/M58p](#), [M58/M58p Eco Ultra Small](#) and [M58e desktops](#) have been 5.0 certified and are available for purchase. Additional highlights include:
 - All Lenovo ThinkPad models with the exception of Celeron, non-Windows Operating Systems, and SL-series are available in ENERGY STAR 5.0 configurations.
 - All Lenovo ThinkVision monitors exceed the new ENERGY STAR 5.0 specification by at least 25%.
 - Select ThinkCentre M-series (M58, M58p) desktops, ThinkStation Workstations (D20, S20) are available in ENERGY STAR 5.0 configurations.
- The Lenovo ThinkVision L2251x Wide monitor is more than 50 percent more energy-efficient than previous models, exceeding ENERGY STAR 5.0 criteria and using only 21 watts of power during operation, which is significantly lower than the average 49 watts of power consumed by monitors in this class³. The ThinkVision L2251x Wide features an ambient light and proximity sensor to further lower power consumption in addition to the standard low-voltage white LED display in all the new models. To help conserve even more power, proximity sensors on the L2251x Wide turn the screen off when a user steps away, helping to save up to an additional 10 percent of power consumption a year.⁴
- Lenovo's energy calculator, available at www.lenovo.com/environment is a good tool for large enterprise or individual consumers to compare energy use by desktops, monitors, and notebooks.
- Lenovo products have scalable power management; Lenovo's Think products include ThinkVantage Technologies which offer additional power management and monitoring tools.

¹Lenovo supports the definition of "BFR/PVC free" as defined in the "iNEMI Position Statement on the 'Definition of Low-Halogen' Electronics (BFR/CFR/PVC-Free)."

²PVC/BFR-free power cords not available in certain geographies.

³Based on the average manufacturer's quoted power consumption of 372 different 22" wide LCD monitors in Meko's database. The most common power consumption was 45W (90 models). Lenovo's equivalent CCFL model is also rated at 45 watts.

⁴Based on Lenovo tests indicating 22 percent of working time is spent away from the PC. The L2251x Wide monitor consumes approximately 20 watts of power during operation.