



## Environmental Responsibility Report

December 2011

Quantum has committed to its customers, suppliers, competitors, communities, and stakeholders that we will strive to abide by the highest standards of business conduct. Part of this commitment includes maintaining a global environmental responsibility platform that considers how we design and build products as well as how we operate our facilities.

### EXPANSION OF DATA STORAGE NEEDS

In 2007, the Environmental Protection Agency published a report to Congress assessing trends in energy use and costs of data centers and servers in the United States. Given the presence of data centers in nearly every sector of the economy, growth in storage demand, and legal and business retention requirements, the EPA report concluded that energy consumption in data centers would likely double by 2011.

### ENERGY EFFICIENCY

Quantum's innovative product designs enable our customers to satisfy the growing demand for data protection and Big Data management solutions with less, and more efficient, storage equipment. Using Quantum deduplication products reduces space, power, and cooling requirements, measured per terabyte, by over 90% when compared to other technologies. This allows our customers to benefit from reduced cost and a lower carbon footprint in their facilities. In addition, Quantum's StorNext products help our customers manage their data with high-speed file sharing and cost-efficient archiving. A StorNext implementation enables simultaneous file access across multiple platforms reducing equipment load and energy use, including in private cloud environments. In addition, Quantum's archive tape technologies provide long-term zero power storage on tape with a 30-year shelf life.

Quantum looks forward to the expected release of the Energy Star Data Center Storage Requirements specification in March of 2012.

### ENVIRONMENTAL CONCERNS

Quantum recognizes that sustainability is both a responsibility and an ongoing opportunity. Environmentally sensitive teams are working to eliminate substances of concern from our product designs, including by using mercury-free displays and halogen-free printed circuit boards where possible. Quantum's Design for Environment guide provides suggestions to our engineering and supply chain teams regarding how the product design and component selection process can further support our environmental goals.

Quantum products are designed with life cycle considerations in mind. In today's world of disposable electronic products, global e-waste production is estimated to be approximately 40 million tons a year. Most Quantum products have a modular design that allows for expansion to meet the increasing needs of our customers without having to replace the product as often. As new technologies provide increasing efficiency, these can be incorporated into existing products so they may continue their service life by several years.

Generally, Quantum products are over 90% recyclable at their end of life, resulting in fewer materials destined for landfills. Quantum facilitates this recycling process in many countries throughout our customer base. For example, in the US, we voluntarily work with customers to properly recycle retired products when they are replaced. In both CY2009 and CY2010, we recycled more than 100,000 pounds of data storage products and related equipment.

Quantum's packaging engineers constantly review and improve how our shipments are packaged, resulting in reduced size and weight, while still using recyclable materials that provide the required strength and integrity in transit. Quantum's Scalar i6000 tape library packaging volume was reduced by 40% and starting in 2012, our Scalar i40 and Scalar i80 drive sled packaging will ship with 30% less volume than before. Much of Quantum's packaging material contains recycled content, and our cardboard supplier is part of the Sustainable Forestry Initiative.

## CARBON FOOTPRINT

Quantum participates in the Carbon Disclosure Project and is working to expand reporting to include more sites and levels of our supply chain in this effort. Through this analysis, we have identified opportunities to further reduce our carbon footprint, including by making environmental system adjustments, using low energy products in our facilities, and leveraging virtual and electronic meeting technologies.

Quantum's specific carbon footprint performance for the measured facilities was:

Calendar Year	Emissions Intensity (CO <sub>2</sub> -e) per Employee	Incremental Change	Aggregate Change
2008	34.6	—	—
2009	35.1	1.5%	1.5%
2010	29.0	(17%)	(16%)
2011	24.0	(17%)	(31%)

In our 2010 Environmental Responsibility Report, we stated a goal to reduce our 2008 emissions baseline by an additional 10% by 2014. Given our successful achievement of that goal within one year, our new goal is to, by 2014, reduce our carbon footprint by another 5% from our 2008 baseline.

## COMMUNITY RESPONSIBILITY

Quantum employees are encouraged to recycle cans, bottles, paper, electronic equipment and batteries wherever locally feasible. Offices seek to obtain supplies and other business products that utilize environmentally friendly materials. In addition, we have begun working with the Green Business Bureau to assess how we can improve our environmental improvement efforts.

Quantum adheres to the standards of the EICC Code of Conduct and we expect our suppliers to do the same. Quantum's key suppliers are measured against Quantum standards through our Quarterly Business Review process,

which holds suppliers accountable for their performance in many areas impacting environmental responsibility, and supplier code of conduct requirements. Suppliers are encouraged to report their carbon emissions and required to meet applicable environmental regulations.

Although Quantum does not purchase Conflict Minerals (which are those mined in conditions of armed conflict and human rights abuses) directly, we are concerned about their impact and support ways to reduce their use. Quantum is investigating the source of supplier Conflict Mineral inventory by asking our suppliers to complete the EICC conflict minerals reporting template.

### NEXT STEPS

Quantum will continue to analyze carbon data from our office locations to identify areas for improvement. In addition, we are evaluating the expansion of current programs that allow employee personal e-waste to be recycled through existing office collection sites.

### CONCLUSION

Quantum strives to positively impact our employees, customers, stakeholders, and the world around us. We will continue to evaluate opportunities to make a difference with our product performance and business operations for generations to come.