THINKING FORWARD:

OUR PRODUCTS

REDEFINE THE FUTURE

2013 EMC Sustainability Report

EMC²

TABLE OF CONTENTS

OUR PRODUCTS 1

Product Stewardship and Efficiency 2

Product Material Content 6

Product End-of-Life 8

Product Information Security & Privacy 12

OUR PRODUCTS

WATCH VIDEO: SUSTAINABILITY IN THE VMAX LIFECYCLE

Watch how EMC's Global Product Operations is cutting costs, material waste, and greenhouse gas emissions, managing social and environmental risks, and exceeding customer expectations

EMC continues to deepen our understanding of the relationship between the product lifecycle and its environmental and social impacts. We are actively redefining and adapting our approach to deliver products and services that take those impacts into consideration every step of the way—including while products are being designed and built, after they leave our facilities, while they are in use by our customers, and when their useful life has come to an end.

TARGETS AND GOALS

To help direct efforts related to our products and quantify our results, EMC set the following goals:

EWASTE

- **Have all IT Asset Disposal (ITAD) suppliers that receive EMC® equipment certified to R2 or e-Stewards standards by the end of 2013. *Achieved in 2013***
- **By 2020:**
  - **Achieve a 50% reduction in total audit findings from Tier 1 & managed Tier 2 ITAD suppliers (below 2013 levels), while maintaining a 100% audit program***
  - **Reach a 95% reduction in major downstream findings below 2012 levels***
  - **Establish community eWaste recycling projects in India, China, and Brazil***

PRODUCT SUSTAINABILITY

- **By 2020:**
  - **Reduce energy intensity 60% at a given raw capacity and 80% for computational tasks***
  - **All products support best in class data center operational specs***
  - **Meet power conversion efficiency requirements in latest ENERGY STAR® specification for all EMC products***
  - **Hardware and software efficiency improves in each version of EMC products***

In the pages that follow, we provide more detailed information about our initiatives and examples of how EMC products are making a difference around the world.

TOPICS COVERED IN THIS REPORT INCLUDE:

- Product Stewardship and Efficiency
- Product Material Content
- Product End-of-Life
- Product Information Security & Privacy

*Refers to a target newly established in 2014

PRODUCT STEWARDSHIP AND EFFICIENCY

EMC's social and environmental impacts expand far beyond the technologies and resources needed to create our products. By developing more efficient products and solutions, we can redefine how we use energy, water, and materials in order to reduce GHG emissions, waste, and costs—both for EMC and our customers. These improvements, which apply to both hardware and software products, include embedding sustainability into each step of the lifecycle, delivering industry-leading functionality to manage demand, driving increased energy efficiency, and tightly integrating our products within the data center.

To learn more about how data center efficiencies come to life at EMC, visit the Efficient Data Centers section of our detailed report titled Operations.

EFFICIENCY THROUGHOUT THE BUSINESS

EMC introduced a new Product Sustainability Assessment process in 2013 to help ensure a consistent focus on incorporating sustainability considerations into our products. The process evaluates each product's design goals against a set of leading sustainability criteria, including energy efficiency, energy information reporting, and effective use in data centers. This process was integrated into EMC's overall business readiness lifecycle process, enabling increased visibility and cross-company awareness of sustainable product design.

THE FOLLOWING TOPICS ARE COVERED IN THIS SECTION:

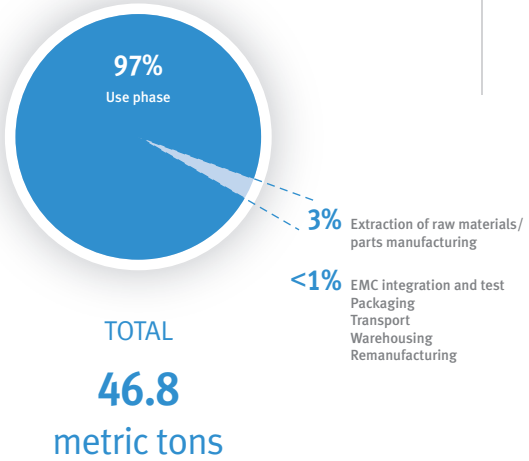
- **Design for Environment**
- **Software**
- **Efficient Drives**
- **Efficient Power & Cooling**
- **Emissions for EMC Products**

IDENTIFYING IMPACTS VIA LIFECYCLE ANALYSIS

Environmental Lifecycle Analyses conducted prior to 2013 confirmed our expectations that more than 90 percent of lifecycle impacts are due to electricity consumed during the product use phase. Armed with this insight, in 2013 we continued efforts to design more efficient products and communicated more frequently with our end-use customers about how to use the products more efficiently. In 2013, we integrated energy efficiency requirements into our go-to-market process for new products and continued to publish guidance on how to use our drives, power and cooling, and software products efficiently and effectively. This includes providing up-to-date information to customers for all of our products via the EMC Power Calculator. To learn more, see the Emissions for EMC Products subsection of this detailed report.

GHG EMISSIONS PER STAGE OF A REPRESENTATIVE EMC MIDRANGE PRODUCT (LCA)

5 YEAR USE PHASE—METRIC TONNES



ENERGY STAR SPECIFICATION AND REVIEW

In 2013, EMC played a significant role in developing the first release of the U.S. Environmental Protection Agency's (EPA) ENERGY STAR Data Center Storage Specification. In addition to sending feedback and recommendations to EPA, we were able to engage and educate EMC product groups about potential implications for products such as VNX® unified storage and VMAX® arrays, including making plans for testing.

On an organizational level, EMC's Energy, Efficiency, and Effectiveness (E3) team played an important role in reviewing ENERGY STAR requirements and providing support for education and test planning. E3 is a voluntary group of employees from technology, operations, and product groups across the Company that shares information and advocates ideas about our technology efficiency initiatives. The E3 team was also engaged with the Storage Networking Industry Association (SNIA) in developing the efficiency metric specification that the EPA utilized for the ENERGY STAR Data Center Storage Specification.

Design for Environment

In addition to the Product Sustainability Assessment process, we take other steps to measure and improve the sustainability of our hardware products. This includes a Design for Environment (DfE) approach that uses current product development to inform future sustainability practices in hardware. It starts with our designers and architects who gain sustainability insights by using proxy indication systems embedded in their design tools. As work continues, our hardware engineers consult development checklists to ensure products adhere to our corporate standards and best practices. During the final stage, when products become ready for general release, we conduct lifecycle analyses on representative product configurations to inform future efforts.

Moving forward, we will continue to focus on:

- Increasing the energy efficiency of our hardware and software products
- Developing products that foster significant improvements in Power Usage Efficiency (PUE)
- Implementing standards that help measure and define areas for energy-efficient operations of IT equipment
- Working with suppliers to reduce impacts of manufacturing disk drives
- Investigating less carbon-intensive options for transport of products and components, including cabinets and other high volume, heavy components
- Exploring lightweighting techniques
- Reducing impacts of product materials using informed design decisions
- Collaborating with suppliers to develop environmentally friendly printed circuit board materials
- Improving packaging efficiency without compromising efficacy
- Maximizing recoverability and recyclability of products at end of use

To learn more about projects implementing these strategies, see the sidebar links.

In addition to DfE, EMC has incorporated the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) environmental standards into our hardware development process. ASHRAE is a building technology society with more than 54,000 members worldwide, and focuses on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. The Society develops standards for refrigeration processes and the design and maintenance of indoor environments. To learn more, visit the ASHRAE website. In September 2013, we launched our first products meeting these standards. We plan to use the standards in all future relevant products.

Software

We continually strive to make the process of developing new products more efficient and effective. We leverage our key software and technologies—virtual provisioning, data deduplication, compression, and Fully Automated Storage Tiering (EMC FAST™)—to deliver significant energy and cost savings in our own labs, and virtualize many aspects of our software development processes through shared infrastructure. Key technologies we provide for our customers and deploy in our development process include:

DISCOVER EMC XTREMIO CAPABILITIES

- **Virtual Provisioning:** A strategy for efficiently managing physical storage needs and capacity by allocating physical storage only when it is actually needed. In a traditional data center, applications are provisioned to the maximum resource capacity they could potentially require—not to the resources they actually consume at the time. The agile nature of the cloud reduces the need for such "over-provisioning," enabling more efficient use of IT assets by consolidating hardware resources and reducing energy consumption.
- **Data Deduplication:** A technology that looks for redundancy of sequences of bytes across very large comparison windows. Sequences of data (averaging 8 KB long) are compared to the history of other such sequences. The first unique sequence is stored and all follow-on matching sequences are referenced rather than stored again. In 2013, we released XtremIO™, an all-Flash storage product that features an "always on" data deduplication to realize efficiencies in real time. To learn more about this technology, visit the XtremIO page on emc.com.
- **Compression:** A storage efficiency feature that reduces the total space used by a data-set, requiring less energy needed to store, send, or access the set of data.
- **EMC FAST:** A technology that automatically moves active data to the appropriate tier of storage, such as flash drives for ultra-high performance or serial advanced technology attachment (SATA) drives for infrequently used information. With FAST, enterprise Flash drives increase application performance by up to 800 percent, and SATA drives lower costs by up to 80 percent—further optimizing our storage infrastructure for performance, energy-efficiency, and cost.

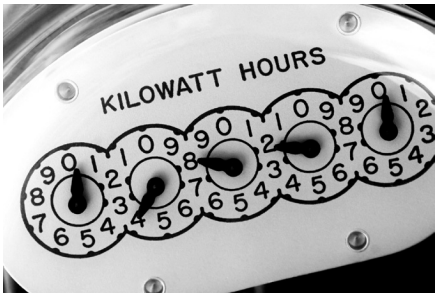
To learn more about the implications for data centers or how we use this hands-on experience as a guide to help our customers, visit the Efficient Data Centers section of our detailed report titled Operations.

Efficient Drives

EMC offers a variety of disk drives to meet varying needs of capacity, performance, and cost—each with its own set of characteristics to consider when pursuing energy efficiency. For example, SATA drives run at lower revolutions per minute (rpm) but have a relatively higher capacity, while Fibre Channel/Serial Attached SCSI (FC/SAS) drives run at higher rpm but have a relatively lower capacity.

EMC was the first in the industry to use highly efficient Flash, or solid state, drives in enterprise storage systems. Enterprise Flash drives use up to 97.7 percent less energy per IOPS (operations per second) than high-performance FC/SAS drives, and up to 38 percent less energy per terabyte of data stored. The energy savings come from their solid state nature—they do not spin like conventional disk drives—and from the ability to reduce the total number of drives required across an entire system to achieve stringent performance targets. EMC FAST technology can leverage a smaller number of high-performance drives (e.g., Flash or high-speed rotational) in conjunction with high-capacity drives (e.g., SATA) to achieve both greater performance and greater efficiency.

Our XtremIO products use only Flash drives in their configurations. They augment the efficiency of this high-performing solution through the comprehensive use of deduplicating technologies that are applied to all features of their product offering. This results in significant capacity and energy savings for our customers.



Efficient Power & Cooling

Beyond drives, there are three other key initiatives aimed at reducing power use in our storage platforms:

1. Using more efficient power supplies to reduce energy loss as power is delivered to the storage platform. The use of high-efficiency power supplies reduces total equipment power and minimizes the generation of waste heat. Power supplies in our current Enterprise and Mid-range products have demonstrated a "Gold" rating against the 80 PLUS benchmark.
2. Embedding instrumentation and utilizing effective tools to monitor and report power use and ambient temperature.
3. Embracing adaptive cooling technology to save energy by dynamically adjusting fan speeds in the storage platform. Our adaptive cooling technology continuously samples the operating environment and adjusts fan operation to minimize power consumption, while maintaining reliability.

To learn more about efficient power and cooling in EMC products, visit **EMC VNX Series** on emc.com.

Emissions for EMC Products

EMC estimates that the lifetime GHG emissions from use of EMC products shipped to customers during 2013 will be approximately 4,095,306 metric tons CO_2e. This value represents our customers' Scope 2 GHG emissions from powering our equipment. It is based on an assumed product lifespan of five years and includes overhead for power distribution and cooling with an average PUE of 1.65.

EMC's configurations vary substantially from customer to customer, as well as over time with a single customer. As such, it is not possible to sum the expected emissions from each and every system shipped in 2013 or to measure an expected lifetime. Rather, this estimate is based on the measured power consumption of disk drives, the inventory of disk drives shipped in 2013, an engineering estimate that of 80 percent of system power is attributable to the disk subsystems, and an extremely conservative average system utilization of 90 percent.

We believe the total is conservative (i.e., that the directly measured value, if feasible to obtain, would be lower) as our calculation takes into consideration neither the reduction over time in carbon-intensity of fuel used by our customers, nor improvements in data center power and cooling efficiency.

PRODUCT MATERIAL CONTENT

At EMC, we consider the entire product lifecycle when selecting materials to use in our products. Material selection can have human health or environmental impacts in the supply chain or at the products' end of life if disposal is improperly managed. To protect people and the environment, EMC takes a proactive approach to minimizing the use of these substances in our products by constantly redefining our research and design process to identify alternative materials and taking measures to prevent these substances from entering the natural ecosystem. We not only adhere to regulations on material use, we go beyond what is required to minimize potential negative impacts through broad collaboration with industry peers, suppliers, academia, and government organizations.

CONFLICT MINERALS

In recent years, there has been increasing focus on the ethical sourcing of minerals, particularly of tantalum, tin, tungsten, and gold (3TG), often referred to as "conflict minerals," from the Democratic Republic of the Congo (DRC). In the DRC, some mines are controlled by armed militias who use the sale of these minerals to fund ongoing conflict in the region.

EMC's goal is to avoid the purchase of 3TG minerals linked to the armed conflict in the DRC, while continuing to source responsibly from the region in order to support peaceful economic activity. We are required to conduct and report on due diligence, but we also go beyond the legal mandate. By collaborating with peer companies from multiple industries to collectively address the issue of conflict minerals, we are helping to build a global supply chain system for responsible and ethical mineral sourcing.

To learn more about our work in this area, visit the Supply Chain section of this report.

IDENTIFYING ALTERNATIVE SUBSTANCES

At EMC, we work to find alternative substances to use in our products that are less harmful to the environment or human health, but still meet or exceed our rigorous technical requirements. We prioritize substances to assess, and then collaborate with other companies and academia to identify and qualify alternatives that meet the same or higher standards of reliability, cost effectiveness, performance, and availability as the materials we currently use. We implement substitutes in new designs where feasible.

Halogens

EMC has been working for several years to reduce the use of halogens in our newly designed printed circuit boards (PCBs). Halogens are an ingredient in flame retardants commonly used in laminates for PCBs, but there are concerns about halogens' impact on the environment and human health. Starting in 2011, the majority of our new PCBs had halogen-free laminates; however, at that time there was not an adequate halogen-free substitute identified for our high-performance PCBs, which have more rigorous technical and safety requirements.

Since then, we have worked with chemists and engineers from a PCB manufacturer and laminate supplier to identify substitutes. We implemented halogen-free laminates for high-performance PCBs in 2012, and for our ultra-high performance PCBs in 2013. As a result, 100 percent of all new PCB designs are now using halogen-free laminates. In 2013, we also began qualifying a halogen-free solder mask, which would make our newly designed PCBs 100 percent halogen-free. We are on track to implement this material in 2014.

EMC is also working on substitutes for the halogens in our cables. In 2013, we requested our suppliers develop halogen-free raw wires for our high-speed cables. Looking forward, we will be further exploring these new cable designs to ensure they meet our technical requirements, with the intent to begin implementation in 2015.

Phthalates

EMC participates in the U.S. Environmental Protection Agency (EPA) Partnership on Alternatives to Certain Phthalates, a project of its Design for Environment program. This project identified eight phthalates of high concern and a list of potential alternatives. In 2013, we worked with our suppliers to complete the evaluation of these alternative substances for use in our products and intend to implement these alternative substances in 2014 on select EMC products. We are also engaged with the Green Chemistry and Commerce Council (GC3), which is conducting its own tests of these materials to determine human toxicity.

FULL MATERIAL DISCLOSURE

EMC's Full Material Disclosure (FMD) database catalogs the substances used in EMC products. This database enables us to quickly and easily identify the presence of substances—when there are new regulations regarding their use—and respond more rapidly to those requirements. To gather this information, we ask suppliers to identify materials used in every part of EMC products by CAS number (a unique identifier for chemical substances).

Compiling this database is complex due to the vast number of parts in our hardware products, the constant evolution of our product portfolio, and the maturity level of each supplier's ability to report FMD. We continue to gather this information from our suppliers, adding data for our new products and backfilling data from our older product releases.

PRODUCT END-OF-LIFE

EMC strives to effectively manage risks associated with product end-of-life processes so that we can meet the highest standards of human health and safety and environmental stewardship, as well as maximize the economic value of returned products. Our global eWaste program looks to improve management of used electronics worldwide, both within EMC and externally, through partnerships and innovation. We offer product take back to all of our customers to help ensure products are recycled and disposed of responsibly and in compliance with the law.

PERCENT OF ITAD SUPPLIERS THAT COLLECT EMC EQUIPMENT WERE R2 OR E-STEWARDS CERTIFIED BY THE END OF 2013

100%

2013 KEY ACCOMPLISHMENTS

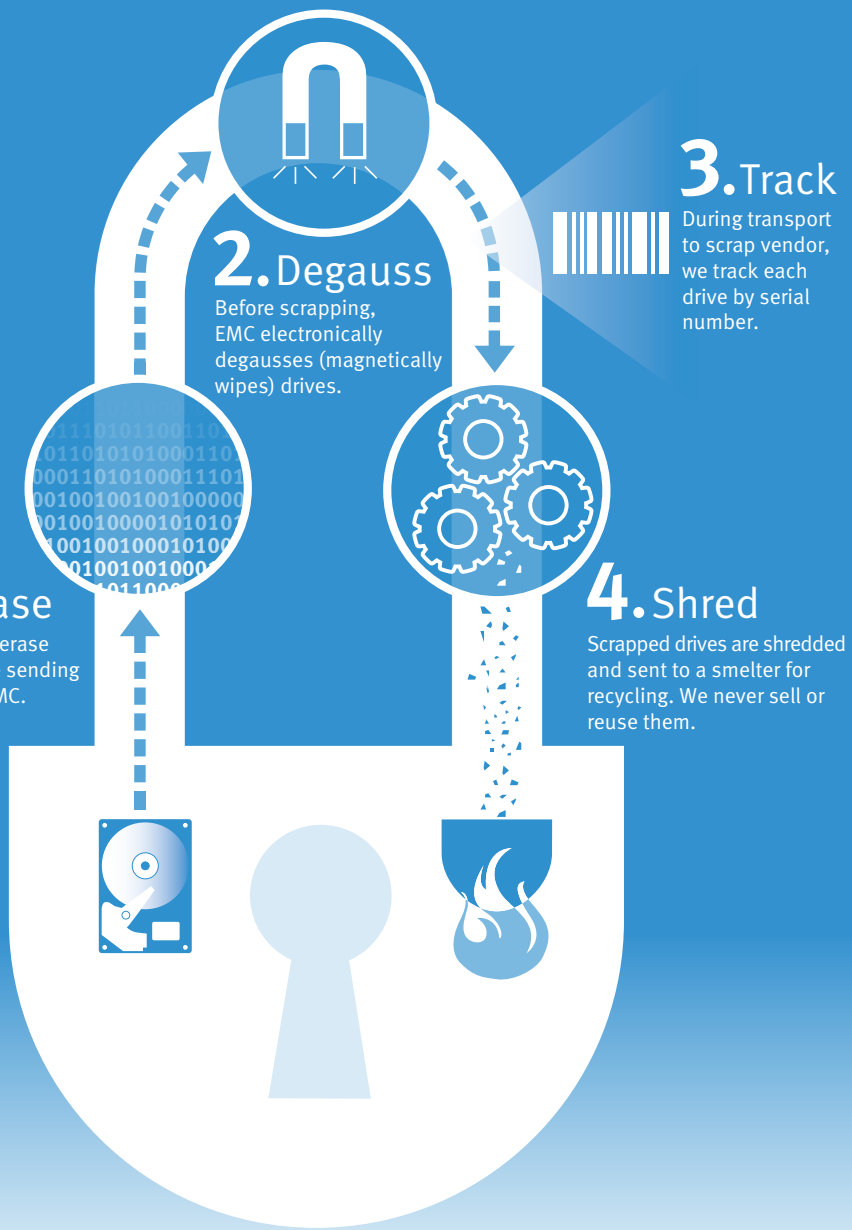
- **Achieved goal to have all IT Asset Disposal (ITAD) suppliers that receive EMC equipment certified to R2 or e-Stewards standards by the end of 2013**
- **Drove the first ITAD facilities in three countries to become R2 or e-Stewards certified**
- **Conducted a third party audit of all Tier 1 ITAD suppliers**
- **Reported on The Green Grid's Electronics Disposal Efficiency (EDE) metric for the first time**

PRODUCT TAKE BACK

We encourage and accept returns of all EMC-branded products at the end of their useful life. When product is returned to EMC, we recondition it on-site for donation or internal deployment, as appropriate. All remaining products are disassembled. Where possible, some subassemblies are reprocessed and tested to new product standards, so they can be used again. Products that cannot be reprocessed are sent to our ITAD suppliers, who responsibly reclaim, recycle, or resell the remaining material—sending less than one percent to landfills. To protect customers' information, disk drives are degaussed (magnetically erased) and/or physically shredded prior to recycling. We use ITAD supplier certifications, site visits, and independent audits to verify that our standards are being met and confirm that eWaste is being disposed of responsibly.

EMC eWASTE MANAGEMENT
PROTECTING DATA AT EVERY TURN

At every stage of the eWaste lifecycle, EMC puts data protection first. We go beyond standard practices to ensure the highest levels of information security for our customers.



EMC eWASTE DISPOSAL AT A GLANCE: WHERE DOES IT GO?

Less than 1% of all of EMC eWaste, including drives, goes to a landfill

0.1% Landfill

0.2% Waste to Energy

0.4% Resale

33.4% Reprocess

65.9% Recycle

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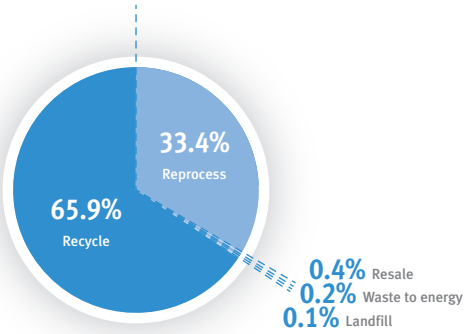
MEASURING OUR PERFORMANCE

EMC measures performance and sets goals around responsible management of the eWaste we receive. In 2013, we took back an estimated 15,534 metric tons of eWaste. Our cumulative returns from 2008-2013 stand at more than 124 million pounds (56,357 metric tons).

EMC is also pleased to be among the first companies to publically report The Green Grid's Electronics Disposal Efficiency (EDE) metric. The EDE metric measures the percentage of eWaste disposed of by a certified facility. The metric is international in scope and can apply to any manufacturer or user of IT equipment. In keeping with EMC's stated objectives, the metric focuses on responsible disposition instead of simply the volumes of eWaste recovered. EMC's 2013 EDE metric improved from 63 percent in Q1 to 100 percent in Q4, resulting in a full year metric of 82 percent.

Looking forward, EMC will pilot a new metric in 2014 to determine the percentage of products we take back versus the products sold, by weight, in a given time period. This measurement will help EMC understand the net amount of material we recover after placing it on the market.

2013 EWASTE DISPOSITION



ITAD SUPPLIER CERTIFICATIONS

Partnering with responsible and transparent ITAD suppliers is crucial to proper eWaste management. In 2013, we required all of our ITAD suppliers to become R2 or e-Stewards certified—the two most widely recognized third-party certification programs. This is helping to ensure that our electronics recyclers:

- Maximize re-use and recycling
- Minimize risk to human or environmental health, both in their own facilities and by downstream handlers
- Protect data on used electronics

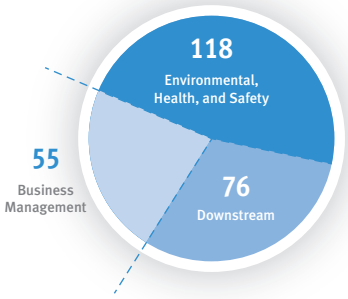
We are pleased to report that EMC met our goal to dispose of 100 percent of eWaste received by EMC at R2 or e-Stewards certified recyclers by the end of 2013. This level of certification will be a continuing requirement for all new ITAD suppliers. As a direct result of EMC requirements, in Ireland, India, and Thailand there are ITAD suppliers certified to the R2 or e-Stewards standards for the first time.

ITAD SUPPLIER AUDITING

In 2013, we met our goal to audit all of our ITAD suppliers. Auditing ITAD supplier facilities demonstrates compliance with EMC requirements and drives continuous improvement at each facility. Audits include verification and/or confirmation of:

- **Downstream Disposition**—Proves and documents responsible eWaste disposal
  - Mass balance accounting
  - Shipping documentation
- **Business Management**—Demonstrates proper operating procedures and planning
  - Training
  - Process documentation
  - Contingency planning
  - External certifications, such as R2 or e-Stewards
  - Working conditions
  - Data and hardware security

SUMMARY OF 2013 ITAD SUPPLIERS AUDIT FINDINGS

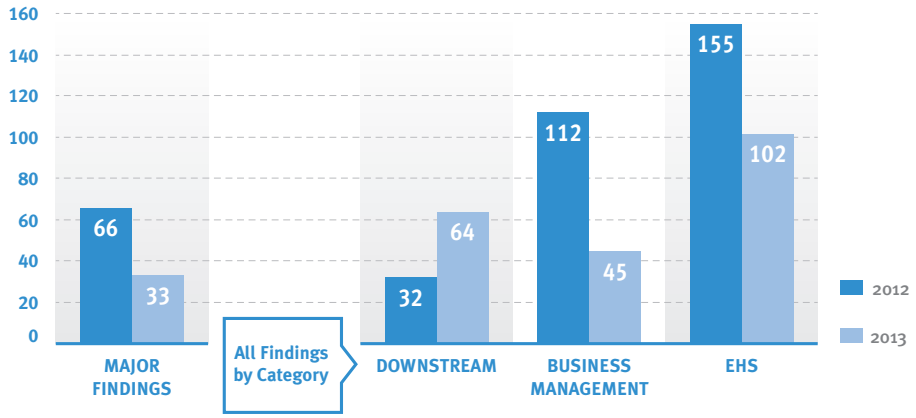


249
findings

- **Environmental, Health and Safety (EHS)**—Creates a workplace that protects human health and the environment
  - Proper guarding and machine operation
  - Use of Personal Protective Equipment (PPE)
  - Environmental monitoring
  - Emergency exits and building safety
  - Spill preparedness and response

Audit results from 15 facilities included 76 downstream findings, 55 business management findings and 118 EHS findings. Examples of findings included lack of proper downstream documentation, incomplete site closure and contingency plans, and low levels of employee health and safety training.

2012 AND 2013 NUMBER OF ITAD SUPPLIERS AUDIT FINDINGS



Note: Results compare only ITAD suppliers engaged with EMC for 2012 and 2013. New ITAD suppliers added in 2013 and those disengaged from since 2012 are not included.

Business management and EHS findings were down significantly from 2012 by 59 percent and 34 percent, respectively. In general, EMC found that suppliers made significant improvements in the EHS and Business Management categories. For example, emergency plans were properly documented, PPE was used properly, and training documentation was up-to-date.

Downstream findings increased over 2012 by 90 percent. Although this is a significant increase, it was not unexpected. In 2012, the first year we performed these audits, ITAD suppliers had a small number of major findings in this category due to large gaps in documentation in their shipping and downstream vendor information. In 2013, the number of downstream findings increased because more complete information was provided by suppliers, which led to a larger number of minor findings. We anticipate findings will decrease next year as ITAD suppliers improve their record keeping practices. While providing and auditing this detailed information is a significant investment for both our ITAD suppliers and EMC, EMC has gained valuable insight on how and where our products are recycled. This information helps ensure EMC products are being disposed of responsibly and in the most efficient manner possible.

After identification, EMC worked closely with all of our ITAD suppliers to address audit findings. Each ITAD supplier created a Corrective Action Plan, and most findings were required to be closed (with documentation) within three months of discovery. EMC plans to continue annual auditing and has incorporated audit findings as a key performance indicator for all ITAD suppliers.

ADDITIONAL INFORMATION

EMC PRODUCT SECURITY BLOG

OPERATIONAL INFORMATION SECURITY & PRIVACY

CUSTOMER INFORMATION SECURITY & PRIVACY

PRODUCT INFORMATION SECURITY & PRIVACY

EMC and its security division, RSA, are guiding our customers and the industry through a migration to a new Intelligence-Driven Security strategy that not only addresses the threats of today but also the evolving challenges of tomorrow. Traditional security practices sought to defend a well-defined organizational perimeter with preventative controls and tools (firewalls, anti-virus, intrusion-detection systems, etc.). That approach has been rendered moot as the perimeter has been eroded by the dramatic adoption of cloud-based applications and mobile devices.

Today's business and IT practices, coupled with a more dangerous threat landscape, require organizations to shift security doctrine from trying to prevent network intrusions to being able to rapidly detect and effectively respond to attacks before they result in business damage or loss. This new strategy, which RSA calls Intelligence-Driven Security, provides organizations with the visibility, analysis, and actions they need to effectively defend themselves from external or internal threats.

RSA provides the products and services companies need to gain that visibility, analysis, and ability to act by focusing on the following areas:

- Advanced Security Operations
- Identity and Access Management
- Governance, Risk, & Compliance
- Fraud & Risk Intelligence

As a provider of information infrastructure products, it is also critical for EMC to establish processes that ensure our own products and services are resilient against cyber-attacks. Our Product Security Office leverages advanced security engineering and secure supply chain practices to minimize the risk of vulnerabilities in our products.

To learn more about information security and privacy as it relates to areas outside of our products, visit our detailed reports titled Operations and Customers.

SECURE PRODUCT DEVELOPMENT

EMC's Product Security Office promotes secure development via a set of requirements integrated into a product security standard. We apply this standard through specification, design, development, documentation, testing, readiness, and vulnerability response, minimizing risk in our products.

When security issues do arise, EMC's Product Security Response Center proactively alerts our customers. We issue EMC Security Advisories (ESAs) to notify customers about potential vulnerabilities and provide corrective measures before adversaries are able to exploit the situation.

To learn more about EMC's approach to product security, visit emc.com/security.

Compliance and Risk Management

We engage risk practitioners from across our organization through the Governance, Risk, and Compliance (GRC) Council, which drives our risk management program. The GRC Council meets monthly or more frequently based on the needs of specific initiatives, including information security and privacy. We also have risk assessment programs in each of EMC's product business units, as well as in each of our geographical regions. We utilize the Archer® GRC tool as a common platform to gather, monitor, and report on risks and controls throughout the company.

The RSA® Compliance & Risk Management (CRM) team helps ensure compliance with external regulations including PCI, HIPAA, ISO 27001, and SSAE-16 in RSA's Software as a Service (SaaS) environment. This group also performs third-party reviews of downstream suppliers of RSA to ensure end-to-end compliance.

To learn more, visit the Risk Management section of our detailed report titled Governance.

Secure Supply Chain

At the intersection of supply chain responsibility and product security lies supply chain risk management. EMC manages the risk across its full supply chain, which complements our existing controls for secure product development and helps ensure we deliver trustworthy products to our customers.

To learn more, visit our detailed report titled Supply Chain.

Partnering to Advance Security

As with any company today, one of the ongoing challenges for EMC and its divisions is maintaining and enhancing our security processes in technology environments that are constantly new and changing. As our company evolves, we are becoming a hyper-extended enterprise, sharing information with more people and using more technology tools across more geographies than ever before.

Our stringent information security strategy and practices—including the compliance and risk management approach mentioned above—continue to prepare us for this challenge.

We also recognize that we don't have all the solutions, and we are working with partners to address the evolving technology landscape. As it relates to product security and privacy, EMC continues to participate with SAFECode, a global organization it helped launch in 2007 that is focused on improving trust in IT products and services. In 2013, EMC contributed to five software development training modules through SAFECode. The modules are free and publicly available, and aim to help raise the bar on software development security across the industry.

To learn more about 2013 partnerships, visit the Information Security & Privacy section of our detailed report titled Operations.

CONTACT

EMC encourages its stakeholders to provide feedback on the topics covered in this report. Please submit any questions or comments about the report or its contents to the Office of Sustainability at Office_of_Sustainability@emc.com.

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