

# E-Waste Management @ TCS



Environmental Sustainability, Health & Safety

# Agenda

- TCS E-waste Policy & Green Procurement Policy
- E- waste generation
- Process of E-waste disposal – Lifecycle Management
  - Vendor identification process
  - Site inspections & due diligence
  - Qualification process
  - Disposal record – In house online system

# TCS Policy on E-Waste Management - 2008

Formulated a policy on e-waste management in July 2008

In line with WEEE directives



## TCS E-waste Management Policy

TCS' E-waste Management Policy derives from its Environment Policy set out by Mr. S. Ramadorai, CEO and MD. Through this E-waste Management Policy, TCS reaffirms its commitment to environmental protection by ensuring proper E-waste management. E-waste, in this context, refers to Electronic waste as per the WEEE (Waste Electric and Electronic Equipment) Directives formulated by the European Union.


TCS, being an IT organization contributes majorly to the global E-waste scenario. This policy reflects TCS' objectives and measures to manage e-waste in an environment-friendly manner. This policy affects the way our organization handles, disposes out dated electronic and electrical equipments and procures new ones. This Policy works in conjunction with the Environment Policy and Green Procurement Policy.

Through this Policy, TCS seeks to :

- Procure computers/hardware from USEPA/ similar Energy star labeled vendors; who are likely to take back E-waste in future.
- Minimize generation of E-waste by extending the useful life of computers/hardware to 4-5 years.
- Adhere to the WEEE Directives for E-waste handling
- Achieve 100% environmentally responsible disposal of e-waste.
- Adhere to applicable country specific e-waste regulations
- Carry out E-waste disposal only through E-waste handlers / recyclers authorized by Ministry of Environment & Forests / Central or State Pollution Control Boards in India or country-specific regulatory agencies

A list of E-waste typically generated in the IT sector as per Annexure IB of the WEEE Directives is given below for reference :

1. Centralized data processing	13. User terminals and System
2. Main Frames	14. Lighting equipment
3. Printer Units	15. Audio/ Video conferencing System
4. Mini Computers	16. LCD Monitors, Projectors, Plasma Screens
5. Personal Computing	17. Photocopying machines, toners
6. Personal Computers *(CPU, Mouse, Screen, Key Board included)*	18. Refrigerators/ Deep Freezers
7. Laptop Computers*(CPU, Mouse, Screen, Key Board included)*	19. Smoke Detectors / Heat Regulators
8. Note Book Computers	20. Automatic Dispensers for hot drinks.
9. Note Pad Computers	21. Air Conditioner appliances
10. Printers	22. Telephone, telex, facsimile and other telecommunication system
11. Copying Equipment	23. Other products and equipment for the collection, storage, processing, presentation or communication of information by electronic means.
12. Pocket and Desk Calculators	

  
Cdr. Pratik Deshpande  
Head - Health Safety Environment

Date : 15<sup>th</sup> July 2008

## Procurement Decisions

- Designed for environment with extended product life, reusability, recyclability and use of recycled content
- Involve or encourage lesser consumption of resources like energy, water and other natural resources
- Extended producer responsibility with “take-back/buy-back” policy



Ajoyendra Mukherjee  
Executive Vice President  
Global Head - Human Resources

### Green Procurement Policy

Aligned to its commitment towards sustainable growth, TCS is keen to incorporate environmental considerations in its purchasing decisions to minimize the environmental impact across the lifecycle of the products and services which it procures. In line with TCS' sustainability objectives, the key pillars of our green procurement philosophy comprise of reduced use of toxic substances, conservation of natural resources, minimizing waste generation & release of pollutants/emissions and maximizing reusability and recyclability across the value chain of the product/service. TCS encourages use of products or services which adopt the cradle-to-cradle approach and design for environment principles which are essential for long-term sustainability.

TCS shall strive to include the following considerations into procurement decisions for capital assets as well as consumable supplies for its establishments:

- Compliance to all relevant international/national/local regulatory compliance requirements
- Minimum/no use of hazardous or toxic substances
- Intrinsically safe designs including all safeguards and controls to prevent any health and safety risks to people
- Designed for environment with extended product life, reusability, recyclability and use of recycled content
- Involve or encourage lesser consumption of resources like energy, water and other natural resources
- Extended producer responsibility with “take-back/ buy-back” policy
- Minimum and environmentally-compatible / recyclable packaging
- Certification and eco-labels for products where applicable

TCS is committed to work with its suppliers to inculcate TCS Green procurement culture across its supply chain.

All end-users and departments of TCS responsible for purchasing of products and services for TCS shall adhere to this policy to the best possible extent and make conscious efforts towards procuring green products/services considering their life-cycle cost and potential impacts on people and the planet.

Ajoy Mukherjee

Date: 26<sup>th</sup> May 2014

# E-Waste Generation Stats.



15,550 nos. of computers disposed in FY 2014-15

Quantity disposed in FY 2015-16 - 13,000\*  
(\*assurance process in progress)



Same trend expected for FY 2016-17

In addition, computers which were in working condition but deemed obsolete for TCS's purposes were donated to educational and charitable institutions which have use for such equipment



[Image Courtesy](#)

<http://expressrecyclingandsanitation.com/tag/e-waste-management/#sthash.99Gc38YD.dpbs>

<http://hsb.nfsb.qc.ca/2014-2015-school-calendar/>

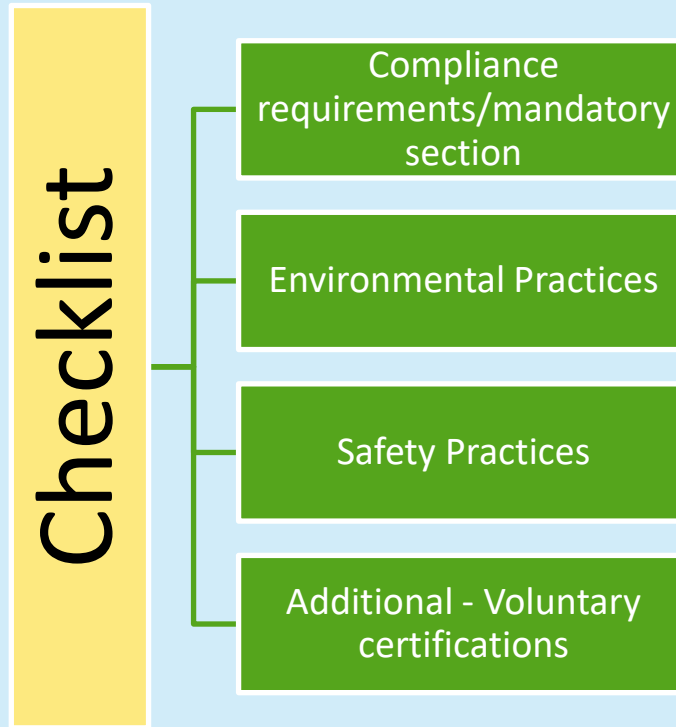
<http://www.ewaste.com.au/>

# E-Waste Disposal Process – Phase 1



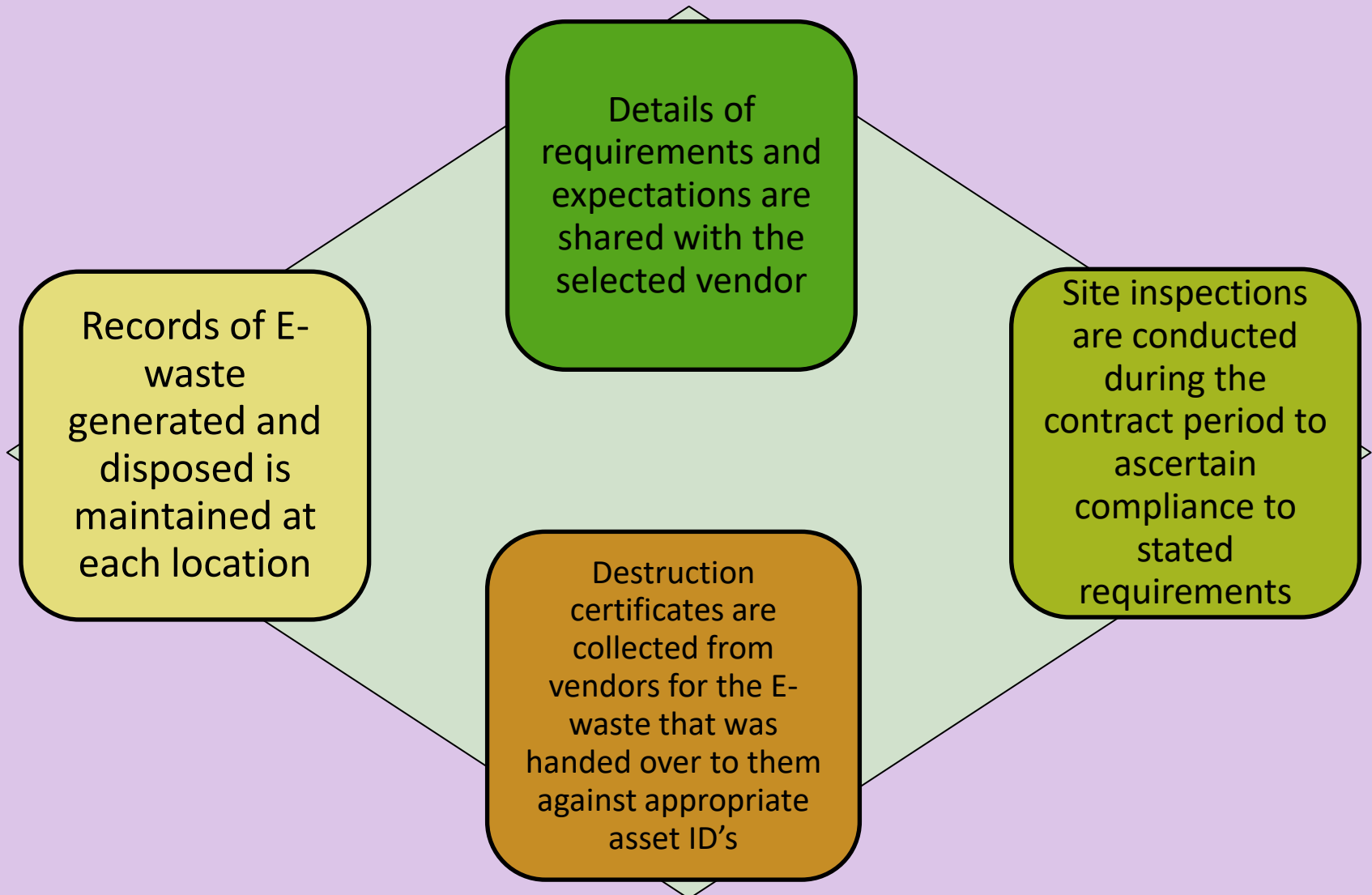
# E-Waste Disposal Process – Phase 2

Site inspection of shortlisted vendors carried by ESHS team



Level 2 qualification based on site inspection reports and selected vendors are called for further discussions

# E-Waste Disposal Process – Phase 3





# E-Waste Management

A separate online (in-house) system is also maintained to track the generation, storage and disposal details of E-waste that is generated

Closure of loop is ensured with stringent approval process and workflows

Ensure that all the E-waste is managed in a scientific manner and records are available

# E-Waste Management

Donated  
computers

Recipients of such donations are required to return the hardware to TCS once it reaches end-of-life at their end or arrange for proper disposal through government authorized E-waste vendors.

TCS offers to facilitate this disposal through the authorized channels.

Adherence to compliance

Commitment to environment protection



### TCS Environmental Policy

TCS' commitment to the environment stems from the Tata Group's abiding concern for the environment, climate change and society, which is embodied in the Tata Code of Conduct and the Tata Group Climate Change Policy. TCS recognises environmental impact and climate change among the key sustainability challenges to businesses and society; affecting economic stability, ecology and vulnerable communities. TCS is committed to assume a leadership role in environmental protection and climate change mitigation while pursuing our business aspirations and enhancement of shareholder value.

TCS is a global organization providing IT services, business solutions, and outsourcing to clients worldwide. We recognize the direct impacts on the environment arising out of our operations and facilities due to consumption of resources like energy, water, etc. and generation of wastes. We also realize the potential of our IT services and solutions to drive efficiencies through optimization and reduction of wastages which directly or indirectly reduces environmental / climate impact for our customers.

We shall strive to minimise our direct impacts on the environment while concurrently enhancing our services and solutions to help customers to improve their environmental and carbon performance towards meeting their sustainability objectives.

TCS aims to fulfil its environmental commitments through the following broad-level actions:

- Integrate energy and environmental considerations into the design of our new infrastructure facilities
- Improve resource efficiency in operations, especially for key resources such as, energy and water
- Reduce carbon footprint through energy efficiency measures and increasing the renewable energy component of our energy portfolio
- Adopt the '3-R' (reduce, reuse and recycle) philosophy for all types of wastes to prevent pollution and dispose off 'inevitable' wastes, particularly electronic waste, in line with regulatory requirements or industry best practice
- Preserve and enhance biodiversity in our campuses
- Strive towards 'greening' our IT infrastructure and operations including data centres
- Ardently promote 'green procurement'
- Consider stakeholder expectations for improvement of our infrastructure, operations, processes and solutions to the extent feasible
- Set, monitor, benchmark and review objectives and targets on an ongoing basis towards achieving continuous improvement in environmental and climate performance and the overall environmental management system
- Comply with all the applicable environmental and related legal and other requirements and, wherever feasible, strive for 'beyond compliance' leadership
- Engage and involve customers, vendors and contractors in our environmental sustainability vision by sharing our expectations to collaboratively achieve our environmental objectives towards greening the supply chain
- Report our environmental performance and contribution to climate-change related issues through relevant international and national forums and to other stakeholders through appropriate communication channels
- Communicate the environmental policy to all employees, customers, business associates and other stakeholders and ensure it is available to the public
- Review the environmental policy and allied management systems periodically to ensure their continuing applicability and relevance to our operations and evolving stakeholder expectations
- Strive to support various voluntary national and international protocols, conventions and agreements on environment and proactively engage with governmental and other agencies in driving future environmental policy and regulation

At TCS, protection of the environment is integral to our business strategy towards sustainability and we shall strive to fulfil all our environmental obligations and commitments as a truly responsible global corporate citizen.

N. Chandrasekaran  
CEO and MD  
Date: April 1, 2013





# Thank You

IT Services  
Business Solutions  
Outsourcing