

HCL Ranking = 4.12/10

HCL once again maintains its number one position in the fifth Indian version of Greenpeace Guide to Greener Electronics. Its overall score has slightly increased since the last ranking mainly as it has improved its take-back service by setting up collection centers and provided FAQs about e-waste and its take-back service. HCL has also provided more details on components of its products that are free of PVC and BFRs, (although there are no models on the market yet) and has increased its list of products that are Energy Star compliant, though it needs to do more to score points on these criteria. On all other criteria, HCL score is the same as the last ranking. HCL continues to score poorly on the new climate and energy criteria and has to do a lot to improve its performance on this issue.

HCL Overall Score				
	BAD (0)	PARTIALLY BAD (1+)	PARTIALLY GOOD(2+)	GOOD(3+)
Precautionary Principle				
Chemicals Management				
Timeline for PVC and BFR phase out				
Timeline for phase out of additional substances				
PVC-free and/or BFR-free models				
Individual Producers Responsibility				
Voluntary takeback				
Information to individual customers				
Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled				
Use of recycled plastic				
Support for GHG emissions reduction				
Disclosure of Carbon Footprint (GHG emissions) of company				
Commitment to reduce GHG emissions by company				
Amount of renewable energy used				
Energy efficiency of new models				

HCL Detailed Scoring

Chemicals

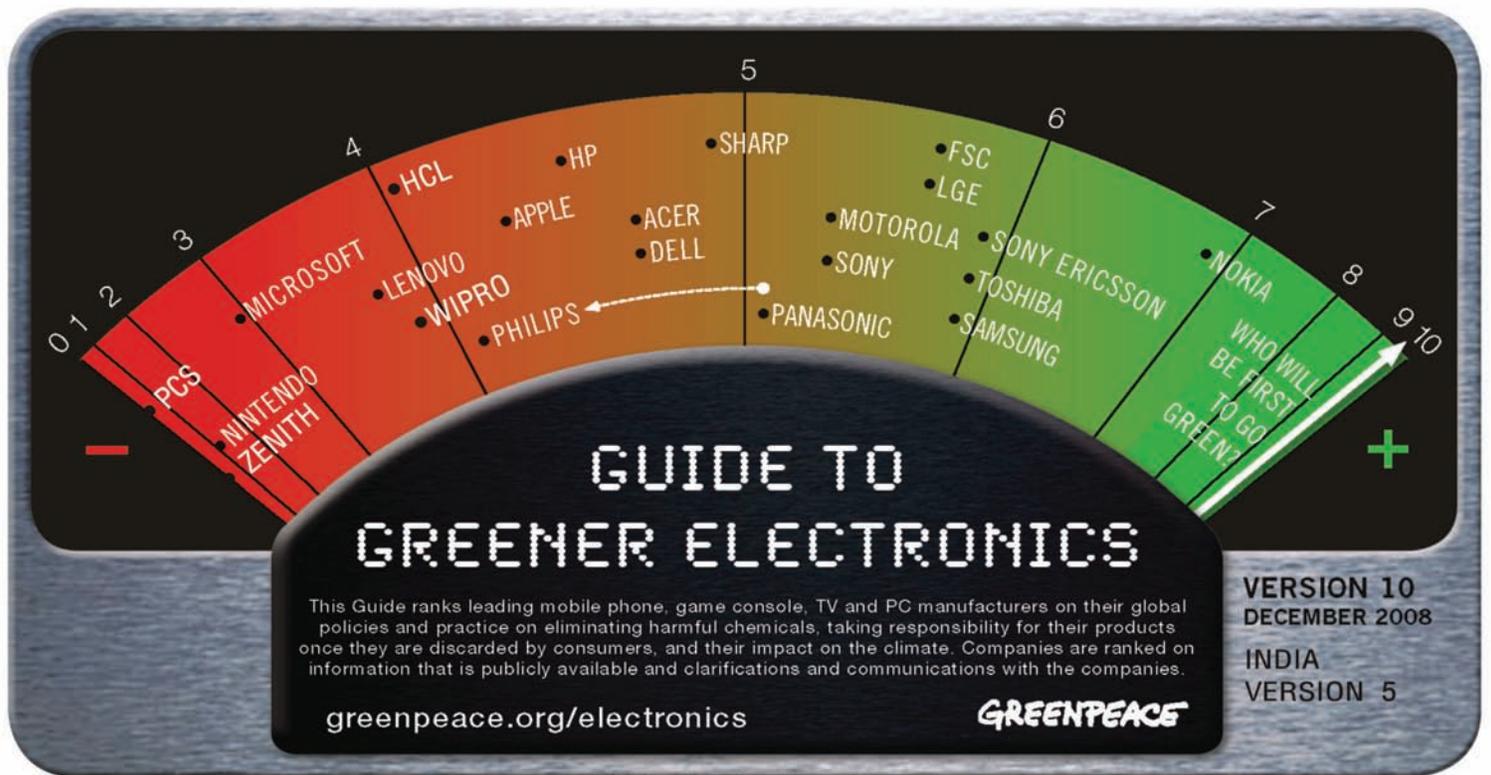
Precautionary Principle	Chemicals Management	Timeline for PVC and BFR phase out	Timeline for phase out of additional substances	PVC-free and/or BFR-free models (Companies score double on this criteria)
GOOD (3+)	PARTIALLY GOOD (2+)	GOOD (3+)	GOOD (3+)	BAD (0)
<p>HCL has improved its definition of the Precautionary Principle by stating that it will phase out harmful chemicals if there are reasonable grounds to suggest harm to the environment and human health even if the full extent of harm has not yet been definitively established. http://www.hclinfosystems.in/hclesafe_ipr.html#middle2</p>	<p>HCL's Chemical policy aims to ban/restrict chemicals that have a negative effect on the environment and health. It also encourages its supply chain to comply with its requirements within the defined timeline. The company provides two lists of hazardous chemicals - chemicals in class A which are completely banned and chemicals in class B which are severely restricted with a timeline given for phase out. To score maximum points HCL needs to extend its chemicals management to a broader range of potentially hazardous substances commonly used in electronics. http://www.hclinfosystems.in/hclesafe_chemicalsupp.html</p>	<p>HCL is committed to complete elimination of PVC by 2009 and BFRs by 2010 at http://www.hclinfosystems.in/hclesafe_chemical.html</p>	<p>HCL now gives a tentative timeline of 2012 for the phase out of beryllium and antimony from its all products, which is also its timeline for phthalates. http://www.hclinfosystems.in/hclesafe_chemical.html</p>	<p>HCL now has a few components that are free of PVC and BFRs, eg: a few models of Optical Drives, SMPS and keyboard are BFR free; a few models of Optical Drives, Hard Disk Drives and Memory Modules are PVC free; and the Heatsink used for CPU cooling is BFR and PVC free. However, to score points HCL needs to phase out PVC and/or BFRs in whole product systems and provide details of these products. http://www.hclinfosystems.in/hclesafe_pvc.html</p>

E-Waste

Support for Individual Producers Responsibility	Provides Voluntary takeback where no EPR laws exist	Provides information to individual customers on takeback in all countries where products are sold	Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled	Use of recycled plastic
GOOD (3+)	GOOD (3+)	PARTIALLY GOOD (2+)	PARTIALLY BAD (1+)	BAD (0)
<p>HCL supports IPR and calls for IPR legislation as the need of hour. HCL needs to explain what this means in practice (voluntary take-back for all its customers) and continue to do active lobbying for legislation embracing IPR. http://www.hclinfosystems.in/hclesafe_ipr.html#top</p>	<p>HCL offers a free take-back and recycling service to all of its customers and along with on-line registration, it has now expanded its take-back service by setting up 13 collection centers across the country. http://www.hclinfosystems.in/hclesafe_ewaste.html http://www.hclinfosystems.in/hclesafe_hclecosafe.html</p>	<p>Information provided is very good with new FAQ on E-waste and list of collection centers with contact person's name, address, phone number and e-mail address. Brief information on definition of WEEE and importance of its recycling is also good http://www.hclinfosystems.in/hclesafe_ewaste.html</p>	<p>HCL reports that the amount of e-waste recycled annually as a percentage of sales 4 years ago was 1.36 % for 2006 and 1.39 % for 2007; quantities for the first three quarters of 2008 are reported. However, this is much shorter than the estimated 7 years life-span for a computer. To keep this point, HCL needs to differentiate between waste generated at its factories and end-of-life e-waste by accounting for these waste streams separately. http://www.hclinfosystems.in/hclesafe_audit.html</p>	<p>HCL failed to provide any specific information or data, however HCL has requested suppliers to increase the use of recycled plastics in their products and quantify the amount that they use. http://www.hclinfosystems.in/hclesafe_recycled.html</p>

Energy

Support for global mandatory reduction of GHG emissions	Disclosure of carbon footprint (GHG emissions) of company's operation	Commitment to reduce GHG emissions from a company's own operations with timelines	Amount of renewable energy used in own operations	Energy efficiency of New Models of specified products (companies score double on this criterion)
BAD (0)	PARTIALLY BAD (1+)	BAD (0)	BAD (0)	BAD (0)
<p>HCL Strongly supports all the initiatives of the Indian Government in favour of GHG emission reduction. On its part, HCL recognises the importance of energy efficient products, helps customers cut costs of ownership and attains broader goals of protecting the environment. However, HCL's own policy is not clearly stated. http://www.hclinfosystems.in/hclesafe_initiative.html#a1</p>	<p>HCL outlines its plan for reporting GHG emissions under GHG Protocol Corporate Standard and ISO: 14064. The company provides a breakdown between scope 1 and 2. HCL currently reports 6563.53 tCO₂ from diesel generators in manufacturing and offices (scope 1) and 7090 tCO₂ for purchased electricity (scope 2). There is no information on other sources of GHG, including emissions from its supply chain. The timescale is not given and data is not backed by external verification. A breakdown of emissions from individual factories and offices is provided. However there are discrepancies in figures under Scope 1; the breakdown of emissions from individual factories and offices provided does not match the overall figure given in Scope 1. http://www.hclinfosystems.in/hclesafe_initiative.html#top</p>	<p>No specific commitment or timeline is given for reducing GHG emissions, so HCL fail to score any points. HCL reports on general steps taken at one of its Plants only. There is no information on specific cuts. http://www.hclinfosystems.in/hclesafe_initiative.html#top</p>	<p>HCL provides details of solar water heaters at one training centre. To score points HCL needs to give the percentage of renewable energy used as well as targets for increasing its use of renewable energy. http://www.hclinfosystems.in/hclesafe_initiative.html#a3</p>	<p>HCL states that 50 % of its Enterprise range and 35 % of its consumer range of desktops are energy star compliant. To score points HCL needs to provide information on all PCs that meet the ES4 standard for PCs since it came into effect in July 07. More Information here http://www.hclinfosystems.in/hclesafe_initiative.html#a4 and here http://www.hclinfosystems.in/hclesafe_ESCproducts.html</p>



PCS TECHNOLOGY Ranking = 0.2/10

PCS Technology remains in third position in the fifth Indian version of the Greenpeace Guide to Greener Electronics. PCS is rewarded for its reference to the EU legislation on RoHS (Restriction of Hazardous Substances) under the Chemicals Management criteria. PCS Technology also mentions its efforts to put models on the market which are energy efficient but fails to provide information on Energy Star compliance. Apart from that, it fails to score on any other criteria.

PCS Overall Score				
	BAD (0)	PARTIALLY BAD (1+)	PARTIALLY GOOD(2+)	GOOD(3+)
Precautionary Principle				
Chemicals Management				
Timeline for PVC and BFR phase out				
Timeline for phase out of additional substances				
PVC-free and/or BFR-free models				
Individual Producers Responsibility				
Voluntary takeback				
Information to individual customers				
Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled				
Use of recycled plastic				
Support for GHG emissions reduction				
Disclosure of Carbon Footprint (GHG emissions) of company				
Commitment to reduce GHG emissions by company				
Amount of renewable energy used				
Energy efficiency of new models				

PCS Detailed Scoring

Chemicals

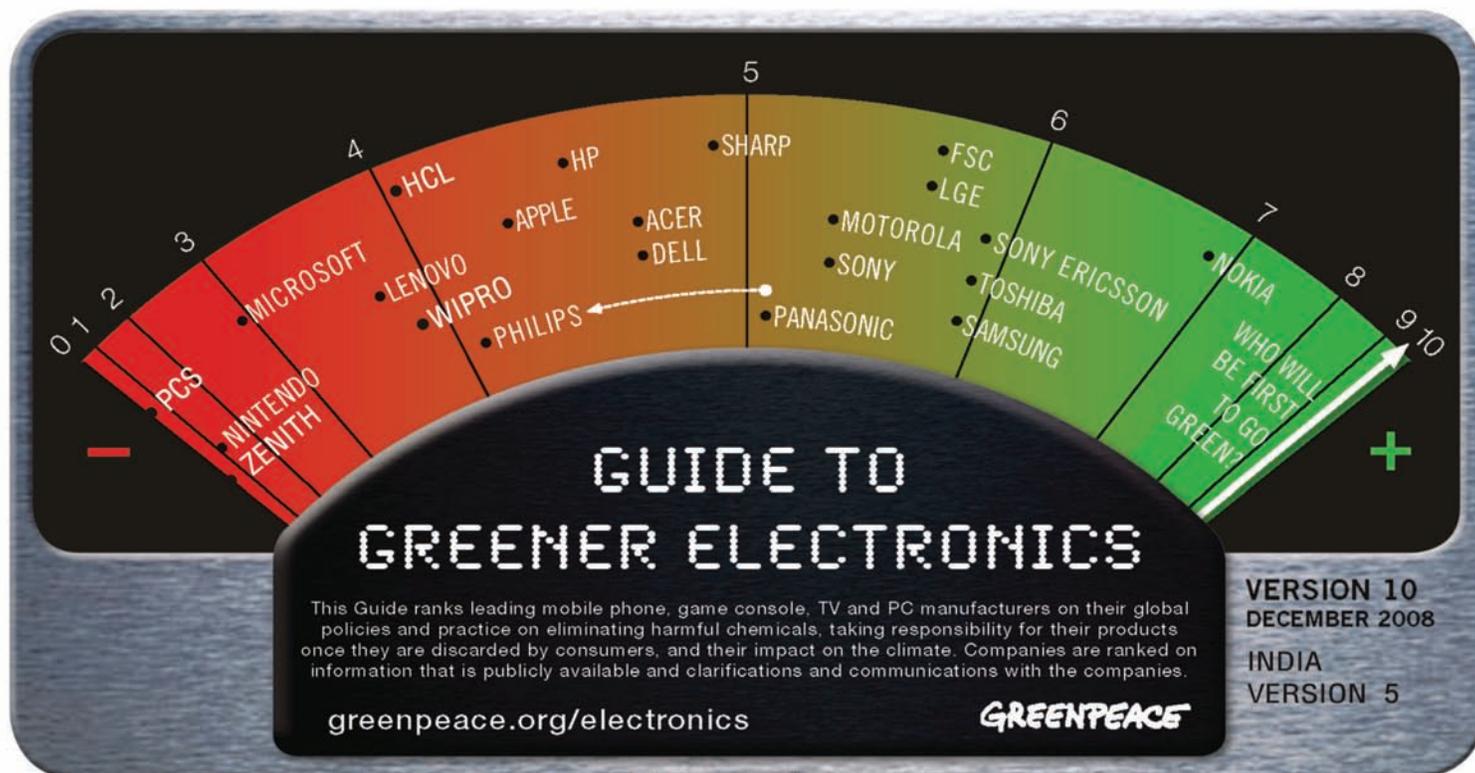
Precautionary Principle	Chemicals Management	Timeline for PVC and BFR phase out	Timeline for phase out of additional substances	PVC-free and/or BFR-free models (Companies score double on this criteria)
BAD (0)	PARTIALLY BAD (1+)	BAD (0)	BAD (0)	BAD (0)
PCS Technology states that it “commits to manufacture products that are environment friendly in all respects and are free from hazardous chemicals.” However, the Precautionary Principle is not mentioned http://www.pcstech.com/greensafe.asp?vgs=gsafe1	PCS Technology refers to compliance with RoHS (EU Directive on the Restriction of Hazardous Substances), and therefore scores 1 point. http://www.pcstech.com/greensafe.asp?vgs=gsafe4	No information	No information	No information

E-Waste

Support for Individual Producers Responsibility	Provides Voluntary takeback where no EPR laws exist	Provides information to individual customers on takeback in all countries where products are sold	Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled	Use of recycled plastic
BAD (0)	BAD (0)	BAD (0)	BAD (0)	BAD (0)
No information	No information	No information	No information	No information

Energy

Support for global mandatory reduction of GHG emissions	Disclosure of carbon footprint (GHG emissions) of company’s operation	Commitment to reduce GHG emissions from a company’s own operations with timelines	Amount of renewable energy used in own operations	Energy efficiency of New Models of specified products (companies score double on
BAD (0)	BAD (0)	BAD (0)	BAD (0)	BAD (0)
No information	No information	No information	No information	PCS Technology is developing energy efficient models in its product line but does not refer to compliance with Energy Star. To score any points, the company needs to provide the percentage of its product range that is Energy Star compliant since July 2007. http://www.pcstech.com/greensafe.asp?vgs=gsafe3



WIPRO Ranking = 3.92/10

Wipro once again remains in second place just behind HCL, in the fifth Indian version of Greenpeace Guide to Greener Electronics. Its score has increased slightly since the last ranking due to its improved definition of the Precautionary Principle. Wipro also scores well on its timeline for phasing out PVC and BFRs, but it fails to score points for PVC and BFR free models on the market. It also continues to do well on the e-waste criteria for its take-back policy and practice but needs be clearer in its information to customers, report on the quantities of post consumer e-waste recycled (and not 'disposed' of) and its use of recycled plastics. Wipro only scores one point on the climate and energy criteria and has to do a lot more on this criterion to improve its score. Information it provides on its carbon footprint needs to be backed by an Auditor's report or certificate. It also has to provide the percentage of Energy Star certified models in the market.

WIPRO Overall Score				
	BAD (0)	PARTIALLY BAD (1+)	PARTIALLY GOOD(2+)	GOOD(3+)
Precautionary Principle				
Chemicals Management				
Timeline for PVC and BFR phase out				
Timeline for phase out of additional substances				
PVC-free and/or BFR-free models				
Individual Producers Responsibility				
Voluntary takeback				
Information to individual customers				
Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled				
Use of recycled plastic				
Support for GHG emissions reduction				
Disclosure of Carbon Footprint (GHG emissions) of company				
Commitment to reduce GHG emissions by company				
Amount of renewable energy used				
Energy efficiency of new models				

WIPRO Detailed Scoring

Chemicals

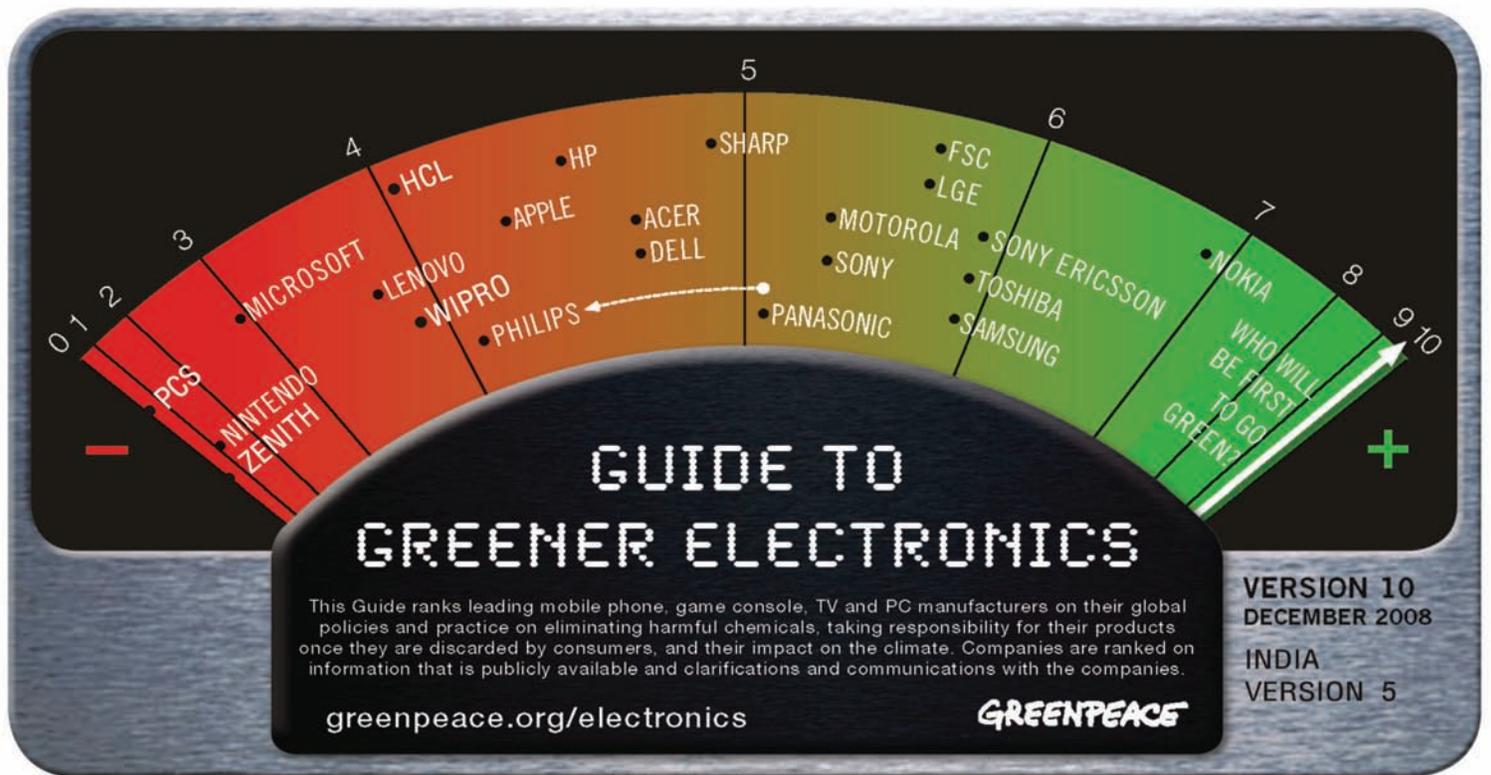
Precautionary Principle	Chemicals Management	Timeline for PVC and BFR phase out	Timeline for phase out of additional substances	PVC-free and/or BFR-free models (Companies score double on this criteria)
GOOD (3+)	PARTIALLY GOOD (2+)	GOOD (3+)	GOOD (3+)	BAD (0)
Wipro has further improved its definition of the Precautionary Principle and states it will phase out chemicals if reasonable scientific grounds indicate harm to environment and health even if full scientific evidence is not available. It is willing to work with all stakeholders to identify such chemicals which pose threats to human health and the environment. http://www.wipro.in/Products/greenpc/index.htm#3	Wipro now provides a list of 21 chemicals which are banned, restricted or subject to phase out from its products. For maximum points WIPRO chemical management plan needs to be more explicit and detailed to show how it reaches such conclusions and what methods it is employing to identify chemicals for future elimination. http://www.wipro.in/Products/greenpc/html/0002core.htm#4	Committed to phase out PVC and BFRs by end of 2009. http://www.wipro.in/Products/greenpc/html/0002core.htm#5	Wipro has aggressive timelines for the phase out of additional chemicals such as phthalates, beryllium compounds and antimony compounds by Year 2010. http://www.wipro.in/Products/greenpc/html/0002core.htm#6	Wipro provides a list of BFR-free products on the market but these are only compliant with RoHS. No information regarding phase out of additional BFRs from products on the market. http://www.wipro.in/Products/greenpc/html/0002core.htm#7

E-Waste

Support for Individual Producers Responsibility	Provides Voluntary takeback where no EPR laws exist	Provides information to individual customers on takeback in all countries where products are sold	Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled	Use of recycled plastic
GOOD (3+)	PARTIALLY GOOD (2+)	PARTIALLY GOOD (2+)	PARTIALLY BAD (1+)	BAD (0)
Wipro scores full marks for its support for IPR and its public support for comprehensive legislation based on the IPR principle in India. To stay on top marks, Wipro needs to define the acronyms EPR/IPR, explain what this means in practice (voluntary t/b programme in India for all products and all customers - B2B and B2C) and do active lobbying for legislation embracing IPR. http://www.wipro.in/	Wipro added one more collection centre at Vijaywada from Aug-08 and now has 17 collection centres, highest among all PC manufacturers in India. An on-line registration form is also available for collection of end-of-the-life products. http://www.wipro.in/Products/greenpc/index.htm#10	Detailed information is provided to customers on how to "dispose" of discarded products through Wipro's take-back service. FAQs have been added which give more information to customers. However, Wipro's use of the word 'disposes' at some times and 'recycle' at others might be confusing to customers. Wipro also gives information about its efforts in creating awareness among customers and other stakeholders.	Wipro now provides the "% of Warranty disposed" month-wise from Apr-06 to Jun-08. The average % of "disposed" amount is 3.96 % highest among all Indian brands. However, its not clear what this percentage refers to; for more points Wipro needs to provide the percentage of end-of-life products recycled in relation to past sales of its products, by product type. It also needs to clarify whether it is "disposed of" or recycled.	Wipro states that it sends 95 % of plastics to China for re-use and 5 % to Hong Kong for recycling. However, Wipro fails to provide any information on whether it uses any kind of recycled plastics in its products and if so, by what percentage of the total plastic used. http://www.wipro.in/Products/greenpc/html/0002core.htm#13

Energy

Support for global mandatory reduction of GHG emissions	Disclosure of carbon footprint (GHG emissions) of company's operation	Commitment to reduce GHG emissions from a company's own operations with timelines	Amount of renewable energy used in own operations	Energy efficiency of New Models of specified products (companies score double on
BAD (0)	PARTIALLY BAD (1+)	BAD (0)	BAD (0)	BAD (0)
<p>Wipro supports the Kyoto Protocol and the Indian government's stand on common but differentiated responsibility between developed and developing countries in curbing GHG emissions. To score points Wipro needs to support global mandatory cuts of at least 50% by 2050 with greater cuts of at least 30% by 2020 by industrialized countries.</p> <p>http://www.wipro.in/Products/greenpc/html/0002core.htm#15</p>	<p>Wipro discloses its GHG emissions for both IT and Non-IT business. However, no information on its product supply chain is given, and the data has no external verification.</p> <p>http://www.wipro.in/Products/greenpc/html/0002core.htm#15</p>	<p>Wipro has announced its commitment to become carbon neutral by 2014. However, it fails to score because it does not provide targets for reducing absolute emissions of GHG from a specified baseline year. Wipro also needs to outline what steps it will take to make it carbon neutral.</p> <p>http://www.wipro.in/Products/greenpc/html/0002core.htm#16</p>	<p>Wipro saved 71 % energy in year 07-08 on account of lowering the power source (SMPS) on its Products from 300 watts to 250 Watts. However it fails to provide any information about its use of renewable energy.</p> <p>http://www.wipro.in/Products/greenpc/html/0002core.htm#16</p>	<p>Wipro states that 22% of its IT hardware product range is energy efficient products, and gives examples of a few selected models which are energy star certified since July 2007. To score points, the company has to give the percentage of products which are Energy Star certified.</p> <p>http://www.wipro.in/Products/greenpc/html/0002core.htm#19</p>



ZENITH Ranking = 0/10

Zeniths continue to remain in last place among the Indian companies in the fifth Greenpeace Guide to Greener Electronics mainly because the information it posted earlier is no longer available via its main website. Although the previous links are still working they are no longer attached to main website. In this ranking once again Zenith scores zero points on all criteria.

Zenith Overall Score				
	BAD (0)	PARTIALLY BAD (1+)	PARTIALLY GOOD(2+)	GOOD(3+)
Precautionary Principle				
Chemicals Management				
Timeline for PVC and BFR phase out				
Timeline for phase out of additional substances				
PVC-free and/or BFR-free models				
Individual Producers Responsibility				
Voluntary takeback				
Information to individual customers				
Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled				
Use of recycled plastic				
Support for GHG emissions reduction				
Disclosure of Carbon Footprint (GHG emissions) of company				
Commitment to reduce GHG emissions by company				
Amount of renewable energy used				
Energy efficiency of new models				

Zenith Detailed Scoring

Chemicals

Precautionary Principle	Chemicals Management	Timeline for PVC and BFR phase out	Timeline for phase out of additional substances	PVC-free and/or BFR-free models (Companies score double on this criteria)
BAD (0)	BAD (0)	BAD (0)	BAD (0)	BAD (0)
No information	No information	The earlier link which provided information on a timeline for the phase out of BFRs and PVC is now not available on the website. http://www.zenith-india.com However, the previous link is still working but not attached with Main home page. Zenith Computers promises its customers that it will stop using PVC and BFR in its PC models by year 2010.	No information	No information

E-Waste

Support for Individual Producers Responsibility	Provides Voluntary takeback where no EPR laws exist	Provides information to individual customers on takeback in all countries where products are sold	Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled	Use of recycled plastic
BAD (0)	BAD (0)	BAD (0)	BAD (0)	BAD (0)
No information	This information is also withdrawn which was earlier available. Zenith offers a free recycling and disposal service for end-of-life Zenith products to all its customers and business clients. It is not clear whether take-back is offered for all of Zenith's customers or only those in India. In addition, the information about whether a fee is charged is ambiguous. http://www.zenith-india.com/recycling.html	This information is also withdrawn which was earlier available. Zenith provides an e-mail address its customers to contact them for disposal of discarded products but fails to provide more detailed information. Also, the information is not easily accessible from Zenith's main pages. http://www.zenith-india.com/recycling.html	No information	No information

Energy

Support for global mandatory reduction of GHG emissions	Disclosure of carbon footprint (GHG emissions) of company's operation	Commitment to reduce GHG emissions from a company's own operations with timelines	Amount of renewable energy used in own operations	Energy efficiency of New Models of specified products (companies score double on
BAD (0)	BAD (0)	BAD (0)	BAD (0)	BAD (0)
No information	No information	No information	No information	No information