



### Ranking criteria explained

As of the 8th edition of the Guide to Greener Electronics, Greenpeace scores electronics brands on a tightened set of chemicals and e-waste criteria, (which include new criteria) and on new energy criteria.

The ranking criteria reflect the demands of the Toxic Tech campaign to electronics companies. Our two demands are that companies should:

- (1) clean up their products by eliminating hazardous substances; and
- (2) take-back and recycle their products responsibly once they become obsolete.

The two issues are connected: the use of harmful chemicals in electronic products prevents their safe recycling once the products are discarded.

Given the increasing evidence of climate change and the urgency of addressing this issue, Greenpeace has added new energy criteria to encourage electronics companies to:

- (3) improve their corporate policies and practices with respect to Climate and Energy

### Criteria on Toxic Chemicals

Greenpeace wants to see electronics companies clean up their act.

Substituting harmful chemicals in the production of electronics will prevent worker exposure to these substances and contamination of communities that neighbour production facilities. Eliminating harmful substances will also prevent leaching/off-gassing of chemicals like brominated flame retardants (BFR) during use, and enable electronic scrap to be safely recycled. The presence of toxic substances in electronics perpetuates the toxic cycle – during reprocessing of electronic waste and by using contaminated secondary materials to make new products.

The issue of toxicity is overarching. Until the use of toxic substances is eliminated, it is impossible to secure 'safe' recycling. For this reason, the points awarded to corporate practice on chemicals are weighted more heavily than criteria on recycling.

Although there are five criteria on both chemicals and waste, the top score on chemicals is 18 points, as double points are awarded for vinyl plastic-free (PVC) and BFR-free models on the market, whereas the top score on e-waste is 15 points.

The criteria on Precautionary Principle and Chemicals Management remain the same. The criterion: BFR-free and PVC-free models on the market, also remains the same and continues to score double points.

The two former criteria: Commitment to eliminating PVC with timeline and Commitment to eliminating all BFRs with timeline, have been merged into one criterion, with the lower level of commitment to PVC or BFR elimination determining the score on this criterion.

A new criterion has been added, namely Phase out of additional substances with timeline(s). The additional substances, many of which have already been identified by the brands as suspect substances for potential future elimination are:

- (1) all phthalates,
- (2) beryllium, including alloys and compounds and
- (3) antimony/antimony compounds

### Criteria on e-waste

Greenpeace expects companies to take financial responsibility for dealing with the electronic waste (e-waste) generated by their products, to take back discarded products in all countries with sales of their products and to re-use or recycle them responsibly. Individual producer responsibility provides a feedback loop to the product designers of the end-of-life costs of treating discarded electronic products and thus an incentive to design out those costs.

An additional e-waste criterion has been added and most of the existing criteria have been sharpened, with additional demands. The new e-waste criterion requires the brands to report on the use of recycled plastic content across all products and provide timelines for increasing content.

### Criteria on energy

The five new energy criteria address key expectations that Greenpeace has of responsible companies that are serious about tackling climate change. They are:

- (1) Support for global mandatory reduction of greenhouse gas (GHG) emissions;
- (2) Disclosure of the company's own (GHG) emissions plus emissions from two stages of the supply chain;
- (3) Commitment to reduce the company's own GHG emissions with timelines;
- (4) Amount of renewable energy used
- (5) Energy efficiency of new models (double points)

Ranking regrading: Companies have the opportunity to move towards a greener ranking as the guide will continue to be updated every quarter. However penalty points will be deducted from overall scores if Greenpeace finds a company lying, practicing double standards or other corporate misconduct.

Disclaimer: Greenpeace's 'Guide to Greener Electronics' aims to clean up the electronics sector and get manufacturers to take responsibility for the full life cycle of their products, including the electronic waste that their products generate and the energy used by their products and operations.

The guide does not rank companies on labour standards, social responsibility or any other issues, but recognises that these are important in the production and use of electronics products.

Change in ranking guide: We first released our 'Guide to Greener Electronics' in August 2006, which ranked the 14 top manufacturers of personal computers and mobile phones according to their policies on toxic chemicals and recycling.

In the sixth issue of the Guide, we added the leading manufacturers of TVs – namely, Philips and Sharp – and the game console producers Nintendo and Microsoft. The other market leaders for TVs and game consoles are already included in the Guide.

In the eighth edition, we sharpened some of the existing ranking criteria on toxic chemicals and e-waste and added a criterion on each issue. We also added five new energy criteria.

For the latest version [greenpeace.org/greenerelectronics](http://greenpeace.org/greenerelectronics)

A penalty point has been deducted from Nokia's overall score for corporate misbehaviour as a result of Greenpeace re-testing of the company's take-back practice in India which continues to be unsatisfactory.

Philips also gets a penalty point for double standards. On its global website, Philips recognises the benefits of Individual Producer Responsibility for product eco-design, but in the U.S. Philips is part of the Electronic Manufacturers' Coalition for Responsible Recycling, which does not support Producer Responsibility and wants to put the financial burden for collection and recycling of e-waste on the consumer.

## HCL Ranking = 3.7/10 <http://www.hclinfosystems.com>

HCL maintains its number one position in the third Indian version of Greenpeace Guide to Greener Electronics. Its overall score has decreased, in line with all the companies, due to the strengthening of existing criteria and the introduction of new criteria. However, HCL still scores relatively well, increasing its lead; it has made progress on many criteria, particularly on the precautionary principle, its chemical management policy and information to consumers on voluntary take-back, although toughened criteria mean it does not score top marks for this. HCL has committed to phase out phthalates, antimony and beryllium and to identify other chemicals for phase out. However, it still has no PVC and BFR free models on the market. HCL scores 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 & BFR phase out  |         |                    |                     |           |
| Timeline for Phase out of additional substances   |         |                    |                     |           |
| PVC-free and/or BFR-free models   |         |                    |                     |           |
| Individual Producer 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

| CHEMICAL SCORE                                  | BAD (0)   | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2)   | GOOD (+3)   |
|---|---|--------------------|---|---|
| Precautionary Principle                         |   |                    |   | HCL has updated its policy based on the Precautionary Principle and now scores top marks for its commitment to phase out all targeted chemicals having potential environmental and health impacts voluntarily beyond legal requirements.<br><a href="http://www.hclinfosystems.in/hclesafe_chemical.html">http://www.hclinfosystems.in/hclesafe_chemical.html</a> |
| Chemicals Management                            |   |                    | HCL provides two lists of hazardous chemicals - chemicals in class A are completely banned and chemicals in class B are severely restricted with a timeline given for phase out. <a href="http://www.hclinfosystems.in/hclesafe_chemicalsupp.html">http://www.hclinfosystems.in/hclesafe_chemicalsupp.html</a><br>More information on letter to supplier at <a href="http://www.hclinfosystems.in/Letter_to_Suppliers.pdf">http://www.hclinfosystems.in/Letter_to_Suppliers.pdf</a> |   |
| Timeline for PVC & BFR phase out                |   |                    |   | HCL is committed to complete elimination of PVC by 2009 and BFRs by 2010 at <a href="http://www.hclinfosystems.in/hclesafe_chemical.html">http://www.hclinfosystems.in/hclesafe_chemical.html</a>   |
| Timeline for Phase out of additional substances |   |                    | HCL has a tentative timeline for the phase out of phthalates by 2012 but its tentative timeline for phasing out beryllium and antimony and their compounds is 2015<br><a href="http://www.hclinfosystems.in/hclesafe_chemical.html">http://www.hclinfosystems.in/hclesafe_chemical.html</a>   |   |
| PVC-free and/or BFR-free models                 | Currently HCL has no products free of PVC and BFRs on the market. <a href="http://www.hclinfosystems.in/hclesafe_pvc.html">http://www.hclinfosystems.in/hclesafe_pvc.html</a> |                    |   |   |

| EPR/ RECYCLING SCORE  | BAD (0)   | PARTIALLY BAD (+1)   | PARTIALLY GOOD (+2)   | GOOD (+3)   |
|---|---|--|---|---|
| Individual Producer Responsibility  |   |  |   | HCL under sustainable development supports IPR and the need for IPR/EPR legislation in India, and offers its customers recycling options. <a href="http://www.hclinfosystems.in/hclesafe_ipr.html#top">http://www.hclinfosystems.in/hclesafe_ipr.html#top</a> |
| Voluntary takeback  |   |  | HCL's 'E-Waste Policy' aims at providing efficient and easy product recovery options to its consumers to facilitate responsible product retirement of all its manufactured EEE products. <a href="http://www.hclinfosystems.in/hclesafe_ewaste.html">http://www.hclinfosystems.in/hclesafe_ewaste.html</a><br>More information on online process for e-waste recycling request registration at <a href="http://pmo.hclinsys.com/ewaste/terms.asp">http://pmo.hclinsys.com/ewaste/terms.asp</a>  |   |
| Information to individual customers   |   |  | In an effort to educate customers on recovery and recycling programs being offered by HCL, WEEE awareness and recovery process booklet has been placed in all product packaging as part of standard product kit. More information on customer awareness at <a href="http://www.hclinfosystems.in/Awareness_Booklet.pdf">http://www.hclinfosystems.in/Awareness_Booklet.pdf</a><br>More information on separate collection and recycling system at <a href="http://www.hclinfosystems.in/hclesafe_ewaste.html">http://www.hclinfosystems.in/hclesafe_ewaste.html</a> |   |
| Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled |   | HCL reports that the amount of e-waste recycled annually was 1.36 % for 2006 and 1.39 % for 2007, based on sales 4 years ago. However, this is much shorter than the estimated 7 years life-span for a computer. <a href="http://www.hclinfosystems.in/hclesafe_audit.html">http://www.hclinfosystems.in/hclesafe_audit.html</a> |   |   |
| Use of recycled plastic   | 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. <a href="http://www.hclinfosystems.in/hclesafe_recycled.html">http://www.hclinfosystems.in/hclesafe_recycled.html</a> |  |   |   |

| ENERGY SCORE  | BAD (0)  | PARTIALLY BAD (+1)   | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|--|--|---------------------|-----------|
| Support for GHG emissions reduction                       | Strongly supports all the initiatives of the Indian Government in favour of GHG emission reductions. However, HCL's own policy is not clearly stated. <a href="http://www.hclinfosystems.in/hclesafe_initiative.html#top">http://www.hclinfosystems.in/hclesafe_initiative.html#top</a>                              |  |                     |           |
| Disclosure of carbon footprint (GHG emissions) of company |  | HCL provides information on its CO2 generation which is 6055.83 MT for 2007. However, no information on emissions from its supply chain is given, and there is no external verification of the data. <a href="http://www.hclinfosystems.in/hclesafe_initiative.html#top">http://www.hclinfosystems.in/hclesafe_initiative.html#top</a> |                     |           |
| Commitment to reduce GHG emissions by company             | HCL fails to provide any specific data on cutting down GHG emission or specific timelines. The company has opted for the reduction of these emissions by adopting CDM projects. <a href="http://www.hclinfosystems.in/hclesafe_initiative.html#top">http://www.hclinfosystems.in/hclesafe_initiative.html#top</a>    |  |                     |           |
| Amount of renewable energy used                           | Although HCL works toward energy saving through various means, there is no information on whether HCL uses any renewable energy for its operations or manufacturing. <a href="http://www.hclinfosystems.in/hclesafe_ipr.html#top">http://www.hclinfosystems.in/hclesafe_ipr.html#top</a>                             |  |                     |           |
| Energy efficiency of New Models                           | HCL provides a list of its products that comply with Energy Star. However, it fails to provide information on the percentage of models that meet or exceed the Energy Star requirements. <a href="http://www.hclinfosystems.in/hclesafe_ESCproducts.html">http://www.hclinfosystems.in/hclesafe_ESCproducts.html</a> |  |                     |           |

**WIPRO Ranking = 2.1/10** <http://www.wipro.in>

Wipro remains in second place in the third Indian version of Greenpeace Guide to Greener Electronics and is struggling to meet the toughened criteria, having made no significant improvements since the last ranking. Wipro scores well on its timeline for phasing out PVC and BFR, its take-back practice and information to customers on its take-back service. However, it scores badly on its chemicals management policy, the phase out of other potentially harmful chemicals, its policy on Individual Producer Responsibility and on the information it provides on the amounts of e-waste recycled, which is not presented as a percentage of its past sales. Furthermore, Wipro fails to score any points on the newly introduced climate and energy criteria.

**WIPRO Overall Score**

|   | BAD (0) | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|---------|--------------------|---------------------|-----------|
| Precautionary Principle   |         |                    |                     |           |
| Chemicals Management  |         |                    |                     |           |
| Timeline for PVC & BFR phase out  |         |                    |                     |           |
| Timeline for Phase out of additional substances   |         |                    |                     |           |
| PVC-free and/or BFR-free models   |         |                    |                     |           |
| Individual Producer 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

| CHEMICAL SCORE                                  | BAD (0)   | PARTIALLY BAD (+1)  | PARTIALLY GOOD (+2) | GOOD (+3)  |
|---|---|---|---------------------|--|
| Precautionary Principle                         |   | Wipro has a "Precautionary Policy" to minimising the use of chemicals that may be potentially harmful, however, the definition is weak and proposed action is only within the industry norms standards<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>   |                     |  |
| Chemicals Management                            |   | Although Wipro manages hazardous chemical substances as part of its Environment Management System it does not make this publicly available, and therefore fails to provide specific information on chemicals and also which chemicals are identified for future elimination.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a><br>WIPRO does have an ROHS compliance |                     |  |
| Timeline for PVC & BFR phase out                |   |   |                     | Committed to phase out PVC and BFRs by end of 2009.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a> |
| Timeline for Phase out of additional substances | Wipro fails to provide any information on a timeline for the elimination of antimony, beryllium and phthalates<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a> |   |                     |  |
| PVC-free and/or BFR-free models                 | WIPRO does not provide information on PVC and BFR free models partially or fully<br><a href="http://www.wipro.in/Products/greenpc/html/0003pro.htm">http://www.wipro.in/Products/greenpc/html/0003pro.htm</a>                                 |   |                     |  |

| EPR/ RECYCLING SCORE  | BAD (0)   | PARTIALLY BAD (+1)  | PARTIALLY GOOD (+2)  | GOOD (+3) |
|---|---|---|--|-----------|
| Individual Producer Responsibility  |   | WIPRO refers to EPR along with its take back policy but there is no mention of IPR, or its support for Government action on IPR. <a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>  |  |           |
| Voluntary takeback  |   |   | E-waste "disposal" service is available for customers on payment of logistic charges. Online registration along with contact information of 16 representatives is provided for this purpose. Recycler can be contacted directly as well for free pick up of equipment <a href="http://www.wipro.in/Products/html/01EWDisposal.htm">http://www.wipro.in/Products/html/01EWDisposal.htm</a>  |           |
| Information to individual customers   |   |   | Information regarding take back is easily available for the customer on the webpage. They can register online for the process or contact the 16 representatives whose contact is provided. However, communication about whether WIPRO will 'dispose' or 'recycle' end-of-life equipment is unclear and could be confusing for customers. <a href="http://www.wipro.in/Products/html/01EWDisposal.htm">http://www.wipro.in/Products/html/01EWDisposal.htm</a><br><a href="http://www.wipro.in/Products/html/01ContactList.htm">http://www.wipro.in/Products/html/01ContactList.htm</a><br><a href="http://www.wipro.in/Products/html/EWContactPartner.htm">http://www.wipro.in/Products/html/EWContactPartner.htm</a> |           |
| Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled |   | Wipro provide some sketchy information on the amount of e-waste disposed but not on the amount reused and recycled. <a href="http://www.wipro.in/Products/html/01EWAbout.htm">http://www.wipro.in/Products/html/01EWAbout.htm</a> WIPRO also provides monthly data in kg but it is not clear if this is post-consumer e-waste or factory scrap. <a href="http://www.wipro.in/Products/html/01EW_Quantity.htm">http://www.wipro.in/Products/html/01EW_Quantity.htm</a> |  |           |
| Use of recycled plastic   | WIPRO refers to content of recycled plastic – 'Wipro also recycles Profeel from identified suppliers'. However, the percentage used or further details are not given. <a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a> |   |  |           |

| ENERGY SCORE  | BAD (0)  | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|--|--------------------|---------------------|-----------|
| Support for GHG emissions reduction                       | Wipro fails to provide any information on its support for reduction of Global GHG emissions.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>  |                    |                     |           |
| Disclosure of carbon footprint (GHG emissions) of company | Wipro is monitoring its own carbon footprint but fails to provide any information on its greenhouse gas emissions.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>  |                    |                     |           |
| Commitment to reduce GHG emissions by company             | There is no information on reducing absolute emissions of greenhouse gas by the company<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>   |                    |                     |           |
| Amount of renewable energy used                           | Though Wipro is working on energy efficiency it fails to provide information about its use of renewable energy.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a>   |                    |                     |           |
| Energy efficiency of New Models                           | WIPRO will phase-in new energy star 4.0 compliant models in mid 2nd quarter 2008, however it fails to provide a list of models and to present this information as a percentage.<br><a href="http://www.wipro.in/Products/greenpc/html/0002core.htm">http://www.wipro.in/Products/greenpc/html/0002core.htm</a> |                    |                     |           |

**Zenith Ranking = 1/10** <http://www.zenith-india.com/>

Zenith remains in third position among the Indian companies, however, its score has decreased since last time due to the new, strengthened criteria. It has made no improvements since the last ranking and with the introduction of new climate and energy criteria, where it fails to score, it loses points overall. Zenith scores best for its commitment to phase out PVC and BFRs. It also got points for its efforts on take-back and for providing information to its customers. It scores zero for all the remaining criteria.

**Zenith Overall Score**

|   | BAD (0) | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|---------|--------------------|---------------------|-----------|
| Precautionary Principle   |         |                    |                     |           |
| Chemicals Management  |         |                    |                     |           |
| Timeline for PVC & BFR phase out  |         |                    |                     |           |
| Timeline for Phase out of additional substances   |         |                    |                     |           |
| PVC-free and/or BFR-free models   |         |                    |                     |           |
| Individual Producer 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

| CHEMICAL SCORE                                  | BAD (0)                 | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3)   |
|---|-------------------------|--------------------|---------------------|---|
| Precautionary Principle                         | No information provided |                    |                     |   |
| Chemicals Management                            | No information provided |                    |                     |   |
| Timeline for PVC & BFR phase out                |                         |                    |                     | Zenith Computers promises its customers that it will stop using PVC and BFR in its PC models by year 2010.<br><a href="http://www.zenith-india.com/sustainability.html">http://www.zenith-india.com/sustainability.html</a> |
| Timeline for Phase out of additional substances | No information provided |                    |                     |   |
| PVC-free and/or BFR-free models                 | No information provided |                    |                     |   |

| EPR/ RECYCLING SCORE  | BAD (0)                 | PARTIALLY BAD (+1)   | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|-------------------------|--|---------------------|-----------|
| Individual Producer Responsibility  | No information provided |  |                     |           |
| Voluntary takeback  |                         | 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.<br><a href="http://www.zenith-india.com/recycling.html">http://www.zenith-india.com/recycling.html</a> |                     |           |
| Information to individual customers   |                         | 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.<br><a href="http://www.zenith-india.com/recycling.html">http://www.zenith-india.com/recycling.html</a>   |                     |           |
| Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled | No information provided |  |                     |           |
| Use of recycled plastic   | No information provided |  |                     |           |

| ENERGY SCORE  | BAD (0)                 | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|-------------------------|--------------------|---------------------|-----------|
| Support for GHG emissions reduction                       | No information provided |                    |                     |           |
| Disclosure of carbon footprint (GHG emissions) of company | No information provided |                    |                     |           |
| Commitment to reduce GHG emissions by company             | No information provided |                    |                     |           |
| Amount of renewable energy used                           | No information provided |                    |                     |           |
| Energy efficiency of New Models                           | No information provided |                    |                     |           |

**PCS Ranking = 0.2/10** <http://www.pcstech.com>

For the first time PCS Technology has scored points in Greenpeace Guide to Greener Electronics. It still takes bottom place but at least it is moving up the ladder. 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 & BFR phase out  |         |                    |                     |           |
| Timeline for Phase out of additional substances   |         |                    |                     |           |
| PVC-free and/or BFR-free models   |         |                    |                     |           |
| Individual Producer 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

| CHEMICAL SCORE                                  | BAD (0)  | PARTIALLY BAD (+1)   | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|--|--|---------------------|-----------|
| Precautionary Principle                         | PPCS 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<br><a href="http://www.pcstech.com/greensafe.asp?vgs=gsafe1">http://www.pcstech.com/greensafe.asp?vgs=gsafe1</a> |  |                     |           |
| Chemicals Management                            |  | PPCS Technology refers to compliance with RoHS (EU Directive on the Restriction of Hazardous Substances), and therefore scores 1 point.<br><a href="http://www.pcstech.com/greensafe.asp?vgs=gsafe4">http://www.pcstech.com/greensafe.asp?vgs=gsafe4</a> |                     |           |
| Timeline for PVC & BFR phase out                | No information provided  |  |                     |           |
| Timeline for Phase out of additional substances | No information provided  |  |                     |           |
| PVC-free and/or BFR-free models                 | No information provided  |  |                     |           |

| EPR/ RECYCLING SCORE  | BAD (0)                 | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|-------------------------|--------------------|---------------------|-----------|
| Individual Producer Responsibility  | No information provided |                    |                     |           |
| Voluntary takeback  | No information provided |                    |                     |           |
| Information to individual customers   | No information provided |                    |                     |           |
| Report on amount of waste electrical and electronic equipment (WEEE) collected and recycled | No information provided |                    |                     |           |
| Use of recycled plastic   | No information provided |                    |                     |           |

| ENERGY SCORE  | BAD (0)   | PARTIALLY BAD (+1) | PARTIALLY GOOD (+2) | GOOD (+3) |
|---|---|--------------------|---------------------|-----------|
| Support for GHG emissions reduction                       | No information provided   |                    |                     |           |
| Disclosure of carbon footprint (GHG emissions) of company | No information provided   |                    |                     |           |
| Commitment to reduce GHG emissions by company             | No information provided   |                    |                     |           |
| Amount of renewable energy used                           | No information provided   |                    |                     |           |
| Energy efficiency of New Models                           | PCS Technology is developing energy efficient models in its product line but does not refer to compliance with Energy Star. <a href="http://www.pcstech.com/greensafe.asp?vgs=gsafe3">http://www.pcstech.com/greensafe.asp?vgs=gsafe3</a> |                    |                     |           |

## Greening Electronics

Greenpeace wants to see electronics companies clean up their act.

Substituting harmful chemicals in the production of electronics will prevent worker exposure to these substances and contamination of communities that neighbour production facilities. Eliminating harmful substances will also prevent leaching/off-gassing of chemicals like brominated flame retardants (BFR) during use, and enable electronic scrap to be safely recycled. The presence of toxic substances in electronics perpetuates the toxic cycle – during reprocessing of electronic waste and by using contaminated secondary materials to make new products.

Until the use of toxic substances is eliminated, it is impossible to secure 'safe' recycling. For this reason, the points awarded to corporate practice on chemicals (five criteria, double points for PVC – and BFR-free models) are weighted more heavily than criteria on recycling.

Ranking regrading: Companies have the opportunity to move towards a greener ranking as the guide will be updated every quarter. However penalty points will be deducted from overall scores if Greenpeace finds a company lying, practising double standards or other corporate misconduct.

Disclaimer: Greenpeace's 'Guide to Greener Electronics' aims to clean up the electronics sector and get manufacturers to take responsibility for the full life cycle of their products, including the electronic waste that their products generate. The guide does not rank companies on labour standards, energy use or any other issues, but recognises that these are important in the production and use of electronics products.

For the latest version [www.designouttoxics.org](http://www.designouttoxics.org)



©Greenpeace

# GREENPEACE

Published by Greenpeace India, # 60 Wellington Street, Richmond town, Bangalore 560025, t +91 8041154861, f +91 8041154862  
June 2008