



### Ranking criteria explained

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

- clean up their products by eliminating hazardous substances;
- takeback and recycle their products responsibly once they become obsolete.

The two issues are connected. The use of harmful chemicals in electronics prevents their safe recycling when the products are discarded. Companies score marks out of 30, which are then re-calculated to give a mark out of 10 for simplicity.

### Toxic chemicals criteria

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, because until the use of harmful substances is eliminated in products, it is impossible to secure 'safe', toxic-free recycling.

Where two companies score the same number of total points, the company with the higher score on the chemicals criteria will be ranked higher.

**The electronics scorecard ranks companies on:**

#### Chemicals policy and practice (5 criteria)

1. A chemicals policy based on the Precautionary Principle
2. Chemicals Management: supply chain management of chemicals via e.g. banned/restricted substance lists, policy to identify problematic substances for future elimination/substitution
3. Timeline for phasing out all use of vinyl plastic (PVC)
4. Timeline for phasing out all use of brominated flame retardants (not just those banned by EU's RoHS Directive)
5. PVC- and BFR-free models of electronic products on the market.

#### Policy and practice on Producer Responsibility for taking back their discarded products and recycling (4 criteria)

1. Support for individual (financial) producer responsibility – that producers finance the end-of-life management of their products, by taking back and reusing/recycling their own-brand discarded products.
2. Provides voluntary takeback and recycling in every country where its products are sold, even in the absence of national laws requiring Producer Responsibility for electronic waste.
3. Provides clear information for individual customers on takeback and recycling services in all countries where there are sales of its products.
4. Reports on amount of waste electrical and electronic equipment (WEEE) collected and recycled.

**Click here to see more detailed information on the ranking**

**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 [greenpeace.org/greenelectronics](https://www.greenpeace.org/greenelectronics)

## NOKIA Ranking = 8/10

Nokia remains in top position. The front-runner has already eliminated plastic PVC from new models of mobiles and is now eliminating Brominated Flame Retardants (BFRs) from the remaining applications mainly in new flexible circuits.

Nokia gets top marks for its support for Individual Producer Responsibility, (each company should take financial responsibility for the electronic waste from its own-branded discarded products). But, it loses points for poor reporting on the amounts of discarded mobiles that it recycles as a percentage of past sales.

### NOKIA Overall Score

	<b>BAD (0)</b>	<b>PARTIALLY BAD (1+)</b>	<b>PARTIALLY GOOD (2+)</b>	<b>GOOD (3+)</b>
Precautionary Principle				
Chemicals Management				
Timeline for PVC phaseout				
Timeline for BFR phaseout				
PVC-free and/or BFR-free models (companies score double on this criterion)				
Individual producer responsibility				
Voluntary takeback				
Information to individual customers				
Amounts recycled				

## NOKIA Detailed Scoring

Chemical Score	BAD	PARTIALLY BAD	PARTIALLY GOOD	GOOD
Precautionary Principle				Nokia's definition of the precautionary principle earns them top points.
Chemicals Management				Nokia has already phased out some harmful chemicals and identified future substances for elimination, including beryllium, nonyl phenols and NPEs (nonyl phenol ethoxylates), antimony trioxide. <b>Nokia substance list.</b>
Timeline for PVC phaseout				Nokia has now eliminated remaining uses of PVC. <b>PVC elimination case study.</b>
Timeline for BFR phaseout				Updated substance list shows that 'bromine and compounds' are being eliminated, schedule shows components where BFRs are already restricted. <b>More information.</b>
PVC-free and/or BFR-free models (companies score double on this criterion)			New models are PVC-free since the end of 2005. From January 2007, Nokia will launch the first products without components containing BFRs, although some models will still contain components with BFRs. <b>More information.</b> E.g. the <b>new N95</b> is PVC free and has no BFRs in main PWB and casing. <b>Eco-declarations</b> are provided for all Nokia products.	

EPR/recycling score	BAD	PARTIALLY BAD	PARTIALLY GOOD	GOOD
Support for Individual Producer Responsibility				Nokia scores top marks for supporting IPR. <b>More information.</b>
Provides voluntary takeback where no EPR laws exist			Still many gaps on Nokia's global takeback map of the world especially in Latin America and Africa – but more service points are now listed in North Africa and Middle East. <b>More information.</b> E.g. <b>free mail-back for US. Greenbox, China.</b>	
Provides info for individual customers on takeback in all countries where products are sold			<b>No information in countries where no takeback services.</b>	
Reports on amount of waste electrical and electronic equipment (WEEE) collected and recycled		Nokia now provides a figure of 2% for mobiles recycled, but it unclear if this is as a percentage of all Nokia sales, or all brands of mobiles returned – and over which period. Nokia provides data on production waste, but the Guide ranks on end-of-life product waste. <b>More information here and here.</b>		