

WHITE PAPER

Green Label Levels at Fujitsu Technology Solutions

Issue September 2010

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Fujitsu Technology Solutions has a long and strong record on environmental commitment. The company has been gathering experience with environmental conscious products and processes since long before legal obligations were an issue. In 2003 we established our first and now well-known Green label which marks our ESPRIMO Green PCs until today.

Considering that the requirements regarding Green products begin to rise, Fujitsu Technology Solutions established a Green Label which covers three categories to further specify an extensive computer product portfolio. The specifications which our products fulfill to qualify are far ahead of legal standards.

Every product is rated in the beginning of its lifecycle. It is not possible, that the product loses its label also in case of any requirement updates.

The Label reflects the holistic environmental approach of Fujitsu Technology Solutions including material, energy consumption and recycling.

Levels

Green Label with 1 Star (*) applies to products meeting all must-have criteria plus 0 to 9 optional points

Green Label with 2 Stars (**) applies to products meeting all must-have criteria plus 10-19 optional points

Green Label with 3 Stars (***) applies to products meeting all must-have criteria plus more than 20 optional points

Label

Green Label with 1 Star



Green Label with 2 Stars



Green Label with 3 Stars



Criteria

The list is based on versions. In case of legal changes, this list will be subject to updates.

Please see the attached list as explanation for the rating. For detailed information on all products follow: [link](#)

	Desktop/ Workstation/ Thin client		Notebook/ Workstation		Requirements
Product name					Version 2.0; December 2009
	points	points	points	m = must	
1.	internal power supply	external power supply	external power supply	o = opt.	
1.	Material 1)				
1.1.	Halogen free material				
1.1.1.	x	x	x	m	Plastic for cabinet and form parts (> 25g)
1.1.2.					Printed circuit board (PCB)
1.1.3.	2	2	2	o	Mainboard
1.1.4.	2	2	2	o	Power supply
1.1.5.					
1.1.6.					PVC free cable
1.1.7.	1	1	1	o	power cable
1.1.8.	1	1	1	o	all internal cable
1.1.9.	3	3	3	o	Complete system (BFR-free and PVC-free for plastic form parts >25g, cable and PCB)
1.2.	Usage of alternative material 2)				
1.2.1.	2	2	2	o	Product contains on average a minimum of 5% renewable/bio-based plastic, measured as a percentage of total plastic (by weight) in the product
1.2.2.	2	2	2	o	Product contains on average a minimum of 10% renewable/bio-based plastic, measured as a percentage of total plastic (by weight) in the product.
1.2.3.	x	x	x	m	Manuals are made of chlorine-free bleached paper
1.2.4.	1	1	1	o	Manuals are made of postconsumer recycled paper
1.2.5.	1	1	1	o	Manuals contain postconsumer recycled paper greater than 65% by weight.
1.2.6.	1	1	1	o	Cardboard packaging contains on average a minimum of 60% postconsumer recycled paper, measured as a percentage of total cardboard product packaging (by weight).
1.2.7.	2	2	2	o	Product contains on average a minimum of 10% postconsumer recycled plastic, measured as a percentage of total plastic (by weight) in the product.
1.2.8.	2	2	2	o	Product contains on average a minimum of 25% postconsumer recycled plastic, measured as a percentage of total plastic (by weight) in the product
1.3.	Recycling				
1.3.1.	x	x	x	m	Disassembly can be done by a single person
1.3.2.	x	x	x	m	Disassembly can be done with commonly available tools
1.3.3.	1	1	1	o	At least 50% of the separable connections between plastic components are plug/snap connections.
1.3.4.	x	x	x	m	Plastic components >25 g shall be marked with a material code in accordance with the identification and marking requirements of ISO 11469:2000.

1.3.5.	1	1	1	o	A maximum of four different types of plastic may be used for parts weighing more than 25g
1.3.6.	1	1	1	o	Plastic casings consist of two separable polymers or polymer blends at the most.
1.3.7.	1	1	1	o	Spare parts and/or compatible replacement parts shall be available five years after end of production. Information on how to obtain replacement parts shall be provided to user.
2. Power consumption					
2.1. Internal power supply efficiency in % at 20%/50%/100% load					
2.1.1.	x			m	80/80/80
2.1.2.	2			o	82/85/82
2.1.3.	2			o	85/88/85
2.1.4.	2			o	87/90/87
2.2. External power supply average efficiency					
2.2.1.		x	x	m	≥ 84 %
2.2.2.		2	2	o	≥ 87 %
2.2.3.		2	2	o	≥ 90 %
2.3. External power supply no load mode					
2.3.1.		1	1	o	≤ 0.5W
2.4. Special power saving function					
2.4.1.	2			o	Switched monitor outlet
2.4.2.	2	2	2		max. 1 Watt Standby/off mode (No Wake on LAN, wake up power button only) no more points for new products since 1.1.2010
2.4.3.	2	2	2	o	max. 0,5 Watt Standby/off mode (No Wake on LAN, wake up power button only)
					0 Watt Standby
2.4.4.	1	1	1	o	mechanical solution (hard off switch)
2.4.5.	3	3	3	o	other solutions: detail description
2.4.6.			2	o	Eco Switch for On-Mode
2.5. Special components					
2.5.1.			1	o	LED backlights for notebooks
3. Environmental Label/ Approvals certified					
3.1.	1	1	1	o	Energy Star
3.2.	1	1	1	o	Blue Angel/ Blauer Engel
3.3.	1	1	1	o	TCO'05
3.4.	1	1	1	o	Nordic Swan
3.5.	1	1	1	o	EPEAT
sum.	45	42	45		

1) According to the standard IEC 61249-2-21 any material can be classified as halogen-free if it does not contain more than 0.09 % w/w of chlorine compounds (calculated as chlorine) or not more than 0.09 % w/w bromine compounds (calculated as bromine) and if the total concentration (chlorine + bromine) does not exceed 0.15 % w/w. This term applies to polymers provided that comparable materials usually do or did contain chlorine compounds or bromine compounds. It does not apply to fluorinated polymers such as PTFE (polytetrafluoroethylene) and PVDF (polyvinylidene difluoride)

2) renewable/bio-based: A material that is composed, in whole or in significant part, of biological materials or renewable agricultural (including plant, animal, and marine materials) or forestry materials.