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The EU Code of Conduct on Efficiency of External Power Supplies

Paolo Bertoldi

European Commission DG JRC



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Background

- The external power supplies and chargers (hereinafter defined “external power supplies”) have in common that they mostly do not have an on-off switch and consume electricity in a no-load situation
- This Code of Conduct has been prepared by the European Commission, following the discussions and decisions of the ad-hoc working group composed by independent experts, Member States representatives and representatives of industry.



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Background

- The Study on Miscellaneous Standby Power Consumption of Household Equipment (Molinder, 1997) calculated an increase for wall packs and chargers from about 8 TWh in 1996 to about 14 TWh in 2006 (Business as Usual scenario). With actions resulting from this Code of Conduct this increase can be counterbalanced, resulting in savings of a maximum of 5 TWh per year from 2010, this is equivalent to a total saving of 500 Million EURO per year.



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Code of Conduct Scope

- Scope of this Code of Conduct are external power supplies for electronic and electrical appliances, including among others AC adapters, battery chargers for mobile phones, domestic appliances, power tools and IT equipment, in the input power range **0.3W to 75W**. In most cases these power supplies are specified by the appliance manufacturer; production can be at the appliance manufacturer or at a dedicated manufacturer.



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The Code of Conduct Aim

- To minimise no-load losses of external power supplies in the input power range **0.3W to 75W..**



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The Code of Conduct Commitment

- Design power supplies or component so as to minimise energy consumption in the off-mode. Those companies who are not responsible for the production of power supplies shall include the concept of minimisation of no load energy consumption in their purchasing procedures of power supplies.
- Achieve the following no-load power consumption targets within the time schedule for at least **60% for Phase 1, 70% for Phase 2** and **80% for Phase 3**, either for the model range using external power supplies or for the models of external power supplies that are introduced on the market after the indicated date (new model only)



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Code of Conduct Targets

The targets for external power supplies are as follows:

	phase 1: 1.1.201	phase 2: 1.1.2003	phase3: 1.1.2005
$\geq 0.3 \text{ W}$ and $< 15 \text{ W}$	1.0 W	0.75 W	0.30 W
$\geq 15 \text{ W}$ and $< 50 \text{ W}$	1.0 W	0.75 W	0.50 W
$\geq 50 \text{ W}$ and $< 75 \text{ W}$	1.0 W	0.75 W	0.75 W



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Participating Companies

The following companies have signed the Code of Conduct:

- **Alcatel** (mobile telephones).
- **Motorola** (mobile telephones).
- **Panasonic** (mobile telephones)
- **Sony** (mobile telephones)
- **Nokia** (mobile telephones)
- **Salcomp Oy** (AC adapter and battery chargers for mobile telephone and IT equipment)
- **Elpac Electronic Inc** (AC adapter)
- **Ault Inc** (power supplies)
- **Astec** (power supplies)



Participating Companies

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The following companies have signed the Code of Conduct:

- **Canon** (mobile IT equipment)
- **Apple** ((mobile power products)
- **Bias Power Technology** (power supplies)
- **IBM** (mobile power products)
- **NEC Computer International B.V.**(mobile computers)
- **HP** (mobile computers)
- **Compaq** (mobile computers)
- **Epson** (scanners, digital camera and interface cards, printers for point of sales systems)



Code of Conduct Monitoring

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- Signatories report on a yearly basis in a confidential manner to the European Commission how many models using external power supplies or models of external power supplies out of the total number of models a manufacturer produces reach the target in that year. For each model using external power supply or external power supply the associated no-load power consumption shall be reported. The reporting shall be completed by the end of February of the following year.