



Energy Efficiency in the Office

professional notebooks, professional PCs and display

BITKOM - Bundesverband Informationswirtschaft,
Telekommunikation und neue Medien e.V.

Jürgen Heidegger, Fujitsu Siemens Computers

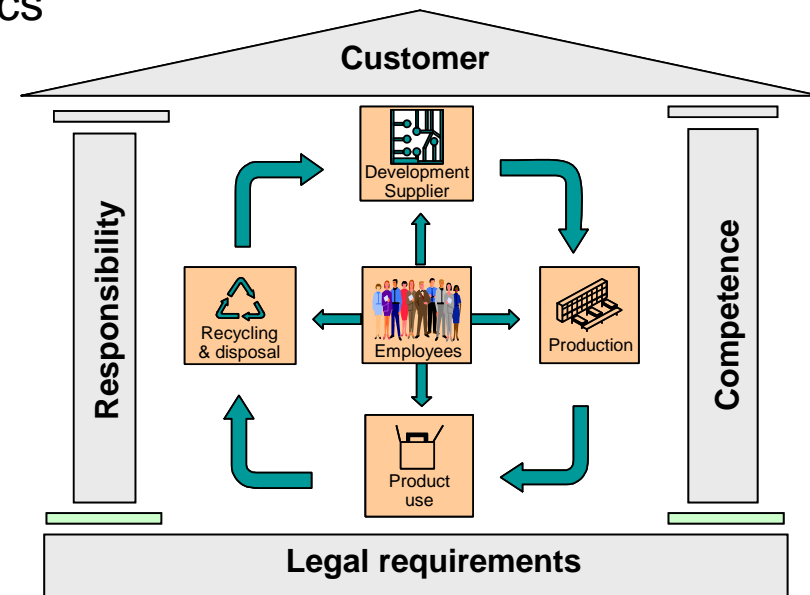
CeBIT 2008, 4-9th March, Hanover

Green IT – energy efficient hardware at the forefront of business demand

- Rapidly rising energy costs and the rising global greenhouse gas emissions is a reality today
- IT-equipment worldwide is responsible for at least 2% of CO2 emissions
- Some examples:
 - Increasing energy consumption through higher IT performance needs
 - Over its life-time, a device can consume more energy in stand-by than when in operation

Energy efficient Green IT – a holistic product concept

- The environmental impacts has to be considered at every stage of product lifecycle
 - Development and design of new products
 - Sourcing of materials
 - Production processes and logistics
 - Product usage
 - End-of-life reuse and recycling



Examples of energy efficient office IT (1)

- Reduced energy consumption of office IT by half over the last 2 years
 - Improved efficiency of all product components
 - Power Management – enabled when delivered
 - Power scheme saves ~ 15 % of energy
 - Better settings as required by certification

Settings for	FSC Net	FSC battery	Blue Angel requires	Energy Star requires
Screen off	10 min	5 min	-	15 min
HD off	15 min	10 min	-	-
Standby	20 min	15 min	30 min PC 15 min Notebook	30 min
Hibernating	1 h	30 min	-	-

Examples of energy efficient office IT (1)

- Professional PC
 - Switched monitor outlet for dedicated systems
Up to 50 % savings in display power consumption
- Professional Notebook
 - Eco Button – extend battery life by ~ 10 % by powering down energy consumption of components and display
- Display
 - First 0 Watt in stand-by display to be released in H2/2008
- Certified with several certificates:



- Efficiency increase and power consumption decrease of power supplies
- Reduction of power losses on systemboard
- "Deep Sleep S5" technology for standby below 1W
- Energy efficient hard disk with Solid State Disk

Energy saving tips for the Green office

- Switch off your PC and Monitor
 - Switch off the system at the main switchOR
 - have switched monitor outlet
- Adjust your power management settings
 - adapt power usage to suit your working rhythmOR
 - Power management ex factory
- Upgraded and keep older system in service
 - Benefit from additional memory than CPU
- If you are buying a new PC - check the label