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**Offices** Green Reference for Tomorrow

**Smart Power Strip**

**Detailed visualization of electric power reduction in electric outlet units Enhancing awareness of energy conservation and transforming work styles**



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Its interface helps employees enjoy saving energy.

- The industry's most advanced power strip with newly developed compact internally stored high resolution electric power sensors which visualize electric power consumed by plugged in equipment in 1W units.
- Connected to a gateway linking them to schedulers through a network.
- Permitting reasonable energy saving matched to the work styles of departments or individual employees.

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**Detailed visualization of electric power consumption by equipment in electric outlet units**

Office work is now far more efficient than ever thanks to ICT, but on the other hand, rising electric power consumption has increased CO2 emissions. Examining the change of CO2 emissions shows an increase of 31.2% over 1990 levels in administration and other divisions, which include offices<sup>\*1</sup>. A survey by the Energy Conservation Center, Japan shows that 28% of energy consumed in office space is used by air-conditioning, 40% by lighting, and 32% by equipment plugged into electric outlets<sup>\*2</sup>.



"Using Smart Power Strips, we experience the sensation of personally saving electric power, so it is fun to save energy."  
**Miho Matsumura**  
 Safety Business Promotion Office  
 Fujitsu Limited

To save energy in offices, it is important to motivate individual employees. Air-conditioning or lighting can be measured by building management systems, but although 30% of total electric power consumption is used by equipment plugged into electric outlets, there is no method of clarifying the state of usage by individual outlet.

So Fujitsu developed Smart Power Strip capable of measuring and displaying electric power consumption beginning at 1W in person and machine units in order to arouse users' feelings of responsibility and sense of mission, thereby encouraging them to take action to save energy.

\*1 From Ministry of the Environment: "Greenhouse Effect Gas Emissions in FY 2009"  
\*2 From Energy Conservation Center: Office Building Energy Saving (FY2009 edition)

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**Linking awareness of energy saving actions lowers electric power use in offices by about 20%<sup>\*3</sup>**

Smart Power Strips arouse each worker's consciousness of saving energy as his or her own responsibility by visualizing electric power consumption.

Its interface is designed like a game interface, allowing users to enjoy saving energy. And connecting the outlets to schedulers can link and clarify each employee's work and electric power consumption. If an employee neglects to shut off the power supply to his or her PC during a long absence, to attend a meeting for example, the interface clearly indicates this, contributing to a revolution in consciousness of green work styles.

\*3 Results of a trial in some Fujitsu offices



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