

***SmartStrip* Power Saving Analysis**

Even if employees 'shut down' their computers when they are not in use failure to 'turn off' their powerstrip results in the continued use of electricity. Peripherals including, but not limited to, monitors, speakers, printers and scanners use what is called 'phantom load,' meaning these devices use power even when they are not turned on.

In efforts to reduce electricity consumption related to computer usage across campus *SmartStrips* powerstrips that 'power down' (equivalent to turning off the powerstrip) when the computer is 'shut down' were piloted. The three SLU employees who are testing our likely new computer systems had their electricity use tracked overnight, with and without the new *SmartStrip*. These users had a range of peripherals: only a monitor; a monitor, speakers and scanner and two monitors and a printer. The average reduction of electricity by using a *SmartStrip* overnight was 0.11kWh.

Assuming 0.11 kWh as the average reduction and assuming 260 weekdays of 9-5 use and 104 weekends of no use. Each weekday 15 hours of power are saved and each weekend day 24 hours of power are saved.

Therefore:

260 weekdays * 15 hrs saved * 0.11KWh saved = 429 kWh saved

104 weekend days * 24 hrs saved * 0.11kWh saved = 275 kWh saved

Average Total Saved/Person/Year = 704 kWh

Assuming \$0.12/kWh financial savings are \$84.48

SmartStrips cost less than \$40

It is important to note that these savings are dependent on employees 'shutting down' their computer every night. If computers are left in power save mode these savings will not be realized and the purchase of \$40 powerstrips is not encouraged.