

# Advanced power strips

## DESCRIPTION

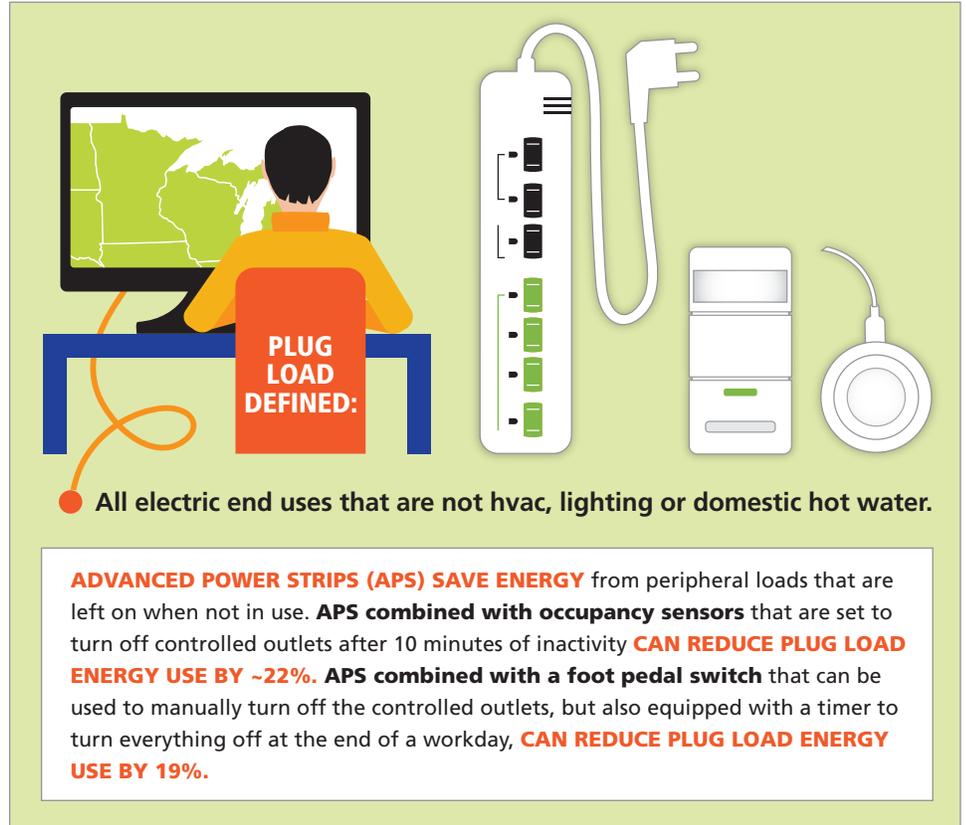
Equipment plugged into wall sockets in homes and offices contributes significantly to our energy use. Many of these devices use energy even when they are not actively being used, analogous to leaving the lights on in a vacant room. Advanced power strips completely turn off these devices when they're not in use, saving energy.

Two levels of power management are available with advanced power strips: Tier 1 power strips manage standby load in peripherals and Tier 2 power strips manage all loads. Different strategies can be used to control each type of strip as well. Time-based power strips shut off on a pre-set schedule and sensor-based power strips shut off if no activity is detected.

Advanced power strips also are generally dedicated to one of two space types. Managing plug load from audio visual equipment is a good use for residential advanced power strips. And in offices, large or small, corporate or home, commercial advanced power strips can be used to obtain significant savings.

## DEMONSTRATING THE TECHNOLOGY

Tier 2 power strips are less established in the market and in much need of field testing. Tier 1 power strips could still benefit from additional demonstration through pilot programs. Demonstration sites could be recruited through direct install programs targeting small businesses or homes, or as a free give-away to consumers. The commercial Tier 2 products could also use additional dedicated field studies in medium and large offices.



CRITERIA	VALUE
Electricity savings	0.12 kWh/ft <sup>2</sup>
Cost savings	\$0.01/ft <sup>2</sup>
Measure life	4 years
2017 simple payback	3 years
Carbon emissions avoided	8.4E-05 MT equivalent CO <sub>2</sub>
How it saves energy	Turns off plugged in devices that are not being used
Non-energy benefits	Some strips have demand response capabilities; surge suppression
Barriers to adoption	IT manager pushback; user acceptance

## FOR MORE INFORMATION

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