Sam Sorensen: Computer Science

Mentor: Clem Izurieta, Brock LaMeres, Wataru Nakigawa -- Computer Science, Electrical & Computer Engineering Smart Power Strip

Vampire power, energy consumed by devices in low-power or standby modes, accounts for 22% of an average home's power consumption, according to a 2008 California Energy Commission study. By providing a convenient and largely autonomous system for monitoring and controlling power consumption, the Smart Power Strip aims to minimize or eliminate the average household's annual \$100 spent on powering devices in standby, low-power, or "instant-on" modes while using minimal power itself. Features such as per-device scheduling, power usage data, and remote access through a WebUI provide the user with straightforward tools for convenient power monitoring and regulation.