CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY



Aakash N. Shah J10331 Project Title Zap! Where Did It Go? Objectives/Goals Abstract How much Standby Power is wasted in typical household electronic devices per hour? Methods/Materials Kill-A-Watt (instrument to measure power) Camera, Laptop, Desktop Computer, P.S.P. Console, Wii Console Conjectives/Goals National Console Mark Table/free space Results Trial 1: 14 W Trial 2: 16.5 W Trial 2: 16.5 W Trial 3: 18.1 W Conclusions/Discussion My project was "How much standby power is wasted in typical household electronic devices?" I chose this topic because I ve always wondered how much un-necessary energy is being wasted. Additionally, while I would be putting away my charger/adapter, it would be warm. So I asked my dad why do they stay "warm" and he said, it was due to standby power. I went to Intel Corporation to meet my dad and his colleagues to understand more about this standby power concept. There I used in typical household devices per hour. The average standby power from my three trials was 16.2 Watts. On an average, each devices consumed the following amount of standby power: Laptop - 1.03W, PSP Console - 3W, Wi Console - 3.3W, PSP Console - 3.3W, PSP Console - 3.3W, PSP Console - 3.3W, PSP Console - 3.3W, PSP Console - 3.3W, PSP Console - 3.3W, PSP Console - 2.W, Wi Console - 3.57W.	Name(s)	Project Number
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