



Environmental Consequences

ASSIGNMENT, PART 5, USE

For one of the following consumer electronic devices:

- A typical, flat screen digital television
- A set top box that enables cable or satellite television to be viewed.
- A typical smartphone, including the charger
- A typical desktop PC, running Windows

Respond to the following:

- Identify a typical power consumption range for this product while in active use.
- Identify non-active power consumption modes for this device (e.g. unplugged, standby, sleep, idle, etc.). Describe what each mode means including what parts of the device are powered down during each mode.
- Identify power consumption in non-active modes (vampire draw) including the battery charger if relevant.
- Discuss at least one specific and practical way an engineer (or other professional associated with product design) could reduce power consumption for the device when it is in active power mode (i.e. in use)
- Discuss at least one specific and practical way an engineer (or other professional associated with product design) could reduce power consumption for the device when it is in a non-active or vampire power mode (e.g. standby, sleep, idle, etc.)

You may use any sources you wish to address the above prompts, but be sure that any information you do use is reputable and comes from a source that is not obviously biased (i.e. prone to providing information skewed in a particular direction).

For this assignment, submit a response that is a minimum of one page long, single spaced, with 1" margins and font no larger than 11 pt. The length requirement does not include title, graphs, figures, extra white space, or other additions that are not text). Please provide a list of sources used to answer the above prompts at the end of your assignment in an APA or IEEE style bibliography. No citations in text are required. Engaging photos or other figures are appreciated, but should be cited appropriately to give credit to the author/creator of these visual aids.