Notebooks: Proposed Changes

- Create a new category for low-end/low performance “netbooks”, clearly differentiating them from mainstream integrated graphics notebooks
  - Netbooks skew category A TEC so low that standard notebooks cannot pass
- Utilize functionalities allowances for additional memory, high performance graphics, and additional storage to allow the high-end “workstation” class of notebooks to be included in the Energy Star program.

Netbook (Wikipedia)

The term **netbook** was re-introduced by Intel in February 2008[1] to describe a category of small-sized, low-cost, light weight, lean function subnotebooks optimized for Internet access and core computing functions (e.g., word processing) — either directly from applications installed on the netbook itself or indirectly, via cloud computing.[2] More than *50 million Netbooks are expected to be in widespread circulation by 2011*.[3] Netbooks (or sub-notebooks as they may be known) *typically come with an 7-inch to 10-inch screen* [4]

- *"Netbooks are "small laptops that are designed for wireless communication and access to the Internet. And they cost about $250, making Netbooks a potentially disruptive and high volume market segment. Even though Netbooks won't be confused with full-featured laptops, my hunch is that tons of people around the world will be attracted to a low-cost machine that plugs them in. The Netbook will expand the global PC market. By how much is a matter of conjecture."*

—*Paul Bergevin, Thoughts on Netbooks*

Current Version 5 Notebook Categories

- Ignores the new Netbook market
  - The presence of Netbooks in the EPA data set skews the TEC limit too low for mainstream notebooks
    - 70% of Netbooks are passing
    - Only 4 standard systems pass (Ethernet-less systems)
    - 0% standard notebooks pass Energy Star Cat A
      - All those passing require 4Gbyte adder
        - » This adder is too heavily weighted (10 KWhr/year?)
- Issues with duplication of data and some data at 230V only, and some at 115V only, and some at 115V-230V

Notebook Category Proposal

- Add a New “Netbook” Category (NB)
  - Recognize new Netbook market which will grow over next couple of years
  - Allows the most efficient Netbooks, integrated graphics notebooks and discrete graphics notebooks to achieve Energy Star
- Proposed Notebook Categories
  - Category A (NetBook)
    - Anything not Cat A or Cat B
  - Category B (integrated graphics notebooks)
    - Screen ≥ 11”
  - Category C (discrete graphics notebooks)
    - Screen ≥ 11”
    - A GPU with a local memory controller and discrete graphics specific memory

Notebook Functionalities Allowance

Include additional kWh allowance for enhanced functionality

- Memory (per GigaByte)
- Graphics Frame Buffer Width
  - X128
  - X256 or greater
- Additional storage device (hard disk drive or solid state drive)