

# Phantom of the Classroom

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An Energy Diet by The Science Walruses

# What is phantom energy, then?

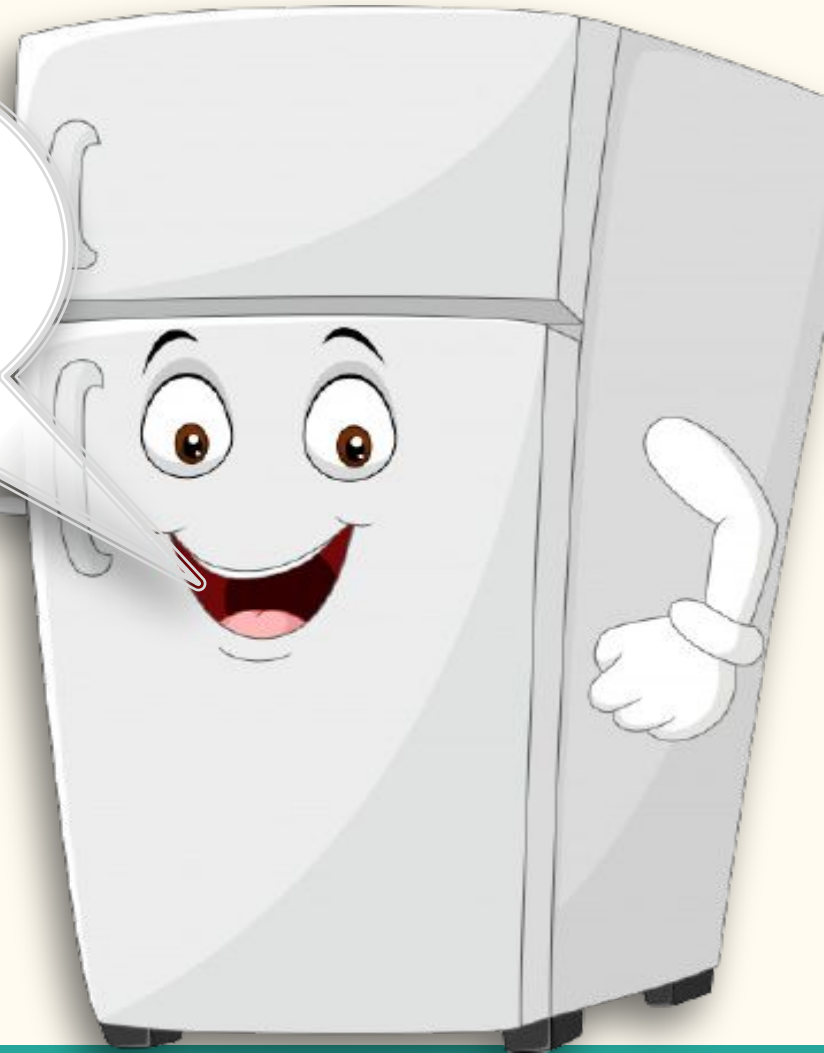
- Energy that devices use EVEN when they're off
- This can include:
  - Chromebooks when in sleep mode
  - iPads when on lock screen
  - Fridge when nothing is being cooled
- Does not include
  - Anything powered off
  - Power converters
  - Anything manual

What devices will I use?

- 24 Chromebooks
- 5 iPads — 2.6W each
- 4 laptops — Shut down
- Microwave — 0.5W
- Fridge — 130W

I use a lot of power.

**Total: 252.5 Watts per Day**



# Pros

- save state without flash memory
- detect radio signals and respond
- start with pure logic, without needing a startup module
- *Gives us a topic to do a slideshow on*
- Only cost and remote activation

# Cons

- Uses energy
  - And that energy is not used in any way
- More expensive in long term
  - Useful only for tiny devices
- Pointlessly creates entropy
  - Costs add up

# Solutions

- Chromebooks — shutdown when not in use
- iPads — shutdown
- Fridge — disable when not in use

# Conclusion

- Pointlessly creates entropy
- Disable or power off anything not required
- Most devices do not need it.

# Bibliography

Paul. (2021, March 19). Phantom energy: Facts, examples, and real solutions!  
Retrieved February 27, 2021, from  
<https://homeefficiencyguide.com/phantom-energy-guide/>

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**Thanks for  
Listening**

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