

Energy Assessment and Solutions



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Both student driven and professionally conducted energy audits revealed areas that can be improved upon.

The Findings

- 1) Hand sinks have high flow rate.
- 2) Roughly 125 computers are running at all times.
- 3) The lighting in classrooms was too bright.
- 4) Outdated lighting in the gym.
- 5) Vending machines are an added draw of energy.
- 6) Temperature in classrooms varies around 4 degrees F.

Our Areas of Concern

Concern 1) Classrooms are too bright.

- Overlighting is known to cause fatigue, headaches, and eye strain.

Our solution is de-lamping, which means we remove one or two bulbs from each bank of lights to reduce light intensity. This can be achieved by classmates and one maintenance worker.

- The estimated time to de-lamp the classroom will be about a week of class hours or several hours on a weekend or after school because of the precautionary measures necessary.

Concern 2) Computers, printers, smartboards, etc. are high energy consumers.

- We suggest installing 'Auto-Shutdown' which would enable the command to shut down computers at a certain time or after a period of inactivity.
- It would be especially effective for computer labs and the library.

Concern 3) Raise awareness of conservation of electricity.

- We would design and print door hangers and signs to be distributed throughout the building, reminding people to turn off all lights and computers at the end of the day.

These three projects would culminate the requirements to have Deer Creek High School certified as a "Green School."

Any Questions?

Thank you from: AP Environmental Science 3rd Hour