



DR. WATTS' BRILLIANT SAVINGS

I want to drink your watts!

No, we're not thinking about those fang-toothed vampires from Hollywood, but all of those unnoticed chargers that are ON in our homes, shops and offices constantly. Powering computers, fax machines, cell phone chargers, chargers for batteries and tools, etc. – these adaptors number 1.5 billion chargers just in this country alone.

For example, each GFIC outlet draws one watt constantly and the clock in the microwave draws 5 watts – just sitting there. For the microwave, plug it into a power strip and turn it OFF when you leave work – EVERY DAY.

Pull the plug, if needs must, and also check out your local electronics store for Energy Star rated battery chargers. Drive a stake in the heart of these energy and dollar-sapping devices.

Visit www.energystar.gov/index.cfm?c=prod_development.external_EPS_program for more details.



Jefferson Signs Agreements for a New Central Chilled Water Plant and New Steam Purchase Pricing

A new 7,000 ton chiller plant will be built and operated by Trigen, the local steam distribution company, at their facility just west of the Edison Building. This plant, exclusively serving our campus, will employ the most efficient methods of producing and pumping chilled water. Overall plant efficiency will be 0.6 KW/ton.

In addition, Jefferson and Trigen have entered into a new steam purchase agreement. The new agreement was negotiated in conjunction with the chilled water agreement described above and provides Jefferson with more favorable pricing than we enjoy under our current, discounted agreement. Also, we avoided the significant capital expense we would have incurred had we decided to build our own steam production facility.

Please add to the savings by scrupulous thermostat settings (say, 68°F) in your area.



Energy Myths Debunked!

Energy Myth #7: The higher you set your home's thermostat, the faster your home will warm up.

The Facts: It will take the same amount of energy for the temperature to reach 70° F whether the thermostat is set at 70° F or 90° F. Setting the thermostat all the way up only wastes energy and increases your heating costs.

Do the Philly Flip!



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On the Home Front

Healing Our Environment – Part 2

Five more steps that you can take to undo global warming are listed here. Take heed and act.

- #6 Run your dishwasher only with a full load. Use the energy-saving feature setting to dry the dishes. Don't use heat when drying.
- #7 Buy energy-efficient compact fluorescent bulbs for your most-used lights.
- #8 Wrap your water heater in an insulating jacket (but only if the water heater is over 5 years old and has no internal insulation).
- #9 Install low-flow shower heads to use less hot water.
- #10 Caulk and weatherstrip around doors and windows to plug air leaks.

Quit Idling!

With the cold weather upon us, millions of Americans are starting their day by idling their vehicles for 5 to 10 minutes so that the interior of the vehicle is warm when they drive off. While seemingly harmless, this routine practice wastes billions of gallons of fuel and pollutes the air with a particularly noxious mix of dangerous emissions. Idling also causes additional wear and tear on engines, leading to higher maintenance and repair costs. The negative impact of engine idling includes the following harmful consequences:

- 1) air quality deteriorates, as emissions from cold, idling engines contain extremely high levels of carbon dioxide, carbon monoxide, nitrous oxides and hydrocarbons;
- 2) fuel and money are wasted. It's estimated that we waste over 2 billion gallons of fuel annually while idling;

- 3) idling adversely affects the health of millions;
- 4) idling after a cold start leaves fuel residue and condensed water on engine and exhaust components, causing damage and oil contamination and, finally;
- 5) idling may soon become illegal, as regions and municipalities are planning or close to enacting laws limiting or prohibiting idling passenger cars.

If you simply must have a warm car and a defrosted windshield in the morning before setting off on your commute, look at engine pre-heaters, or parking heaters, as practical alternatives without the negative effects of idling.

Bright Ideas

And the Winner Is...



Mary Diehl, Administrative Coordinator of Academic Affairs, JMC and Bill Fusco, Security Officer are seen here with their \$100 awards for their energy saving suggestions. Mary suggested that all thermostats be changed out to programmable set back type to save high priced steam and Bill suggested we start a poster campaign to raise awareness on the value of shutting off lights, fume hoods and other equipment.

Savings at Work – Center City Campus

Oct-Dec 2005	Budget	Actual	Prior Year Actual
Electricity	\$1,672,000	\$1,602,125	\$1,657,938
Steam	1,260,000	2,494,405	1,533,060
Water	248,200	277,766	195,614



Don't stop looking for ways to cut energy use around here. We need your input and are counting on you. We're also counting out the bucks — don't forget, we'll be awarding a \$100 bill to that person who submits the best idea for cutting energy use on campus.

The Future

Wind energy nationally had a record year in 2005 and Pennsylvania saw its sixth wind farm come on line at Bear Creek. But the best is ahead in 2006 and 2007. We predict that Pennsylvania will have 500 megawatts of wind operating by 2007! (The entire Center City Campus of Jefferson uses about 20 megawatts).

Look around your area and observe operations, develop a good idea to lower energy use and then call me, Randy Haines at 503-6099 or email me at randolph.haines@jefferson.edu.



Look for the EPA's Energy Star label on products that use less energy, save you money on your utility bills and help protect the environment.



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