



Arizona Success

Current News and Practical Tips
for Arizona's Business Community

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APS
THE POWER TO MAKE IT HAPPEN®

Energy + Efficiency = Good news for schools

When you reduce your school's energy use, you free up funds for other activities. Many energy efficiency improvements also increase comfort and enhance the learning environment. Some projects pay for themselves with energy savings in months, most within a few years. Schools can shorten the payback period even more by applying for a rebate from the APS Solutions for Business program.

Solutions for Business provides incentives for a range of energy efficiency measures — from lighting and motors to air conditioning and refrigeration equipment — for existing buildings and new construction. The program also offers rebates for retro-commissioning, feasibility studies, and design assistance. The Solutions for Business program is now in its second year, and schools in APS service territory have received to-date nearly \$2,000,000 in incentives. How much can your school save?

To learn more, call 866-277-5605 between 9 a.m. and 5 p.m. (MST), Monday-Friday, or visit aps.com and click on "business rebates."

When school's out, efficiency is in

Start your plans now. Summer vacation means empty classrooms and easy access for implementing energy efficiency improvements. You may already have a good idea of needed improvements and can get moving with a few tips and resources. Remember, many of the measures below are eligible for rebates from the Solutions for Business program.

Start by looking up

Lighting typically consumes the most electricity in schools, it adds to the cooling load, and it's relatively easy

to change. So it makes sense to start here for savings. Ask yourself these questions:

- Are we still using any incandescent lights? If so, replace them with ENERGY STAR® qualified compact fluorescent lights (CFLs). They use less energy and last longer.
- Are we making the best use of natural light? Are window overhangs the proper length and are coverings in working condition? If blinds or shades are difficult to open and close, they probably will not be used.
- Have we maximized use of occupancy sensors, timers, photosensors and other controls? Installing occupancy sensors can reduce lighting energy use up to 40%.

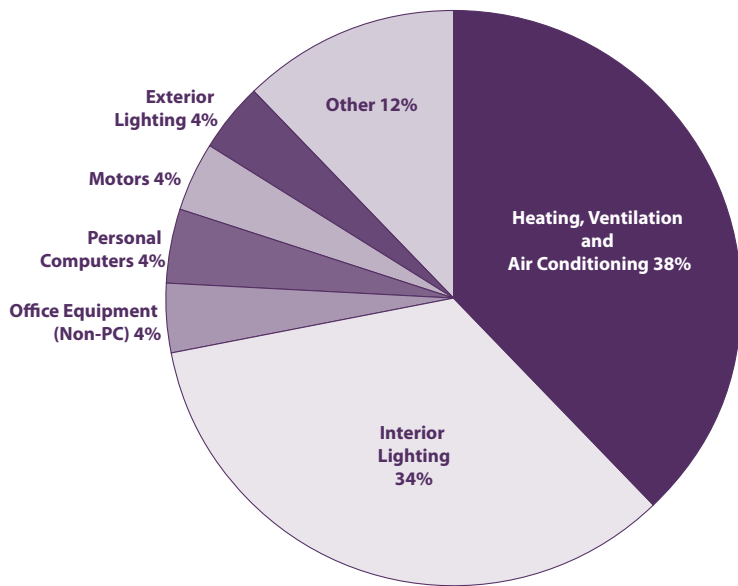
Additional ways to save on lighting:

- Replace T12 fluorescent lamps and magnetic ballasts with T8 fluorescent lamps and electronic ballasts and reduce lighting energy use by 30%. Save even more with premium T8 lamps.
- Replace high intensity discharge (HID) lights in high bay systems (often in gyms and auditoriums) with T5 high output (HO) lamps and fixtures to cut lighting energy use by almost 50%.
- Save \$20 per year for each incandescent exit sign you replace with an ENERGY STAR® qualified model. Replacing all lamps on the same schedule (group re-lamping) can cut lighting maintenance costs by 25% or more. While you're up there, dust off the fixtures. Dirt reduces light output.

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Keep cool for less

Air conditioning is the second-largest component of a school's energy bill and a critical factor in creating a successful learning environment.



Ask yourself:

- Are we matching the cooling schedule to occupancy patterns? Install controls to raise the temperature set point when students and staff leave. Save money without sacrificing comfort.
- Do we have drafts? You may be able to reduce your cooling costs by up to 30% simply by sealing leaks in

walls, doors, windows and roofs. Follow drafts to their source and seal with the appropriate material, such as caulk or weather stripping. This will also keep out dust, noise and pests.

- How old is it? If it's time to upgrade your cooling system, look for the most efficient equipment and be sure that it is sized correctly for your facility. Oversized chillers consume more energy and do not work as effectively.

Retool your maintenance calendar

According to the Department of Energy, a well-crafted operation and maintenance (O&M) program and increased staff awareness can save 5% to 20% on energy bills without a significant capital investment. Your O&M program may include activities such as: cooling tune-up, cleaning coils, changing air and water filters, verifying operation and adjusting setpoints of sensors and controls, calibrating thermostats and humidistats, cleaning light fixtures and group re-lamping.

Attend a workshop in our Technical Training Series to learn about specific technologies and techniques, such as chillers, HVAC, and retro-commissioning. APS also provides Building Operator and Facility Maintenance Training in conjunction with the Electric League of Arizona (ELA). Encourage your building managers and facility maintenance personnel to participate, as APS subsidizes 50% of the class tuition for customers. Check aps.com (click on "business rebates") for more information.

The APS Solutions for Business program is funded by APS customers and approved by the Arizona Corporation Commission.

