

# Smart Energy Management for K-12 Schools

Improve comfort. Reduce costs. Stay within budget.



Make the most of your energy<sup>SM</sup>

**Schneider**  
 **Electric**

# Affordable building management is now within reach for most schools

K-12 schools face never-ending budget challenges. These challenges are made even harder by rising energy costs. Schools spend more on heating, air conditioning, and lighting than on any other expense except for personnel.\* With only simple thermostats for temperature control, and on-off switches for lighting, the typical school has little choice but to keep paying the energy bills that continue to rise.

Now Schneider Electric, a global leader in energy management, has developed a solution that addresses this challenge—and it's a solution that fits within just about every school's budget constraints.

## Enhance the learning environment

**Cut energy waste & costs.** Proactive energy management reduces energy waste in empty classrooms. Smart room controllers can be managed remotely, and can even sense when the classroom is unoccupied or in use.

**Create a better learning environment.** Maintain classroom environments at optimum levels for enhanced comfort – and learning.

**Adjust to changing schedules.** The Schneider Electric solution adapts easily to unexpected school cancellations and other schedule changes – so no energy is wasted.

**Reduce repair costs.** If the HVAC unit gives out, repair costs are high and schedules are disrupted. Get alerts about equipment performance and avoid costly emergencies.

**Make your maintenance team more effective.** Our building management solutions do more, allowing your maintenance staff to do more too.

**Manage your energy use.** Manage HVAC and lighting from anywhere. Set up schedules. Even manage multiple classrooms and buildings from one location.

**Achieve quick ROI.** Our solutions respect your budget and save your school more money – all while delivering a faster ROI. Now, that's smart energy management.



### Did you know?

- > K-12 schools spend more than **\$8 billion** (€7 billion) annually on energy.\*
- > Green schools save more than **\$12/f<sup>2</sup>** (€105/m<sup>2</sup>) in energy costs.\*\*
- > Schneider Electric solutions can deliver up to **30%** in energy savings.

\*www.centerforgreenschools.org

**“It is very important that we are energy efficient. Every dollar we don't spend on energy is one we can use toward educating our students.”** –Davis School District, Utah



# Building control solutions that are tailor-made for schools

Schools must operate on strict annual budgets, yet advanced building management systems can require a sizeable investment. Schneider Electric solves this problem by offering a scalable approach that can be expanded year-by-year, generating energy savings that pay for the investment as you go.

Our application-specific room controllers can be used stand-alone, connected with remote sensors, wirelessly networked with our SmartStruxure Lite solution, or connected to a central BMS with building analytics, giving your school the solution and the growth path needed to fit your goals and your budget.

## A fully scalable solution

- > Start with smart controllers to manage lighting and air conditioning to create a perfect environment in each room.
- > Include CO<sub>2</sub> sensors to monitor and control air-quality.
- > Add occupancy sensors so lights and HVAC turn on and off automatically based on actual use.
- > Add window and door sensors to adjust temperature settings automatically.
- > Add a security option that alerts faculty of a "Shelter In Place" with a change in background color for the hearing impaired.
- > Network wirelessly to monitor and control the school environment anytime, anywhere.
- > Deploy across a campus or district and manage all your facilities holistically.
- > Eliminate repair and maintenance headaches. Let our service bureau answer system alerts and dispatch repair teams, day or night.

Web-based dashboard. Manage your school environments **anytime, anywhere**.



From the classroom to the boardroom, **choose the design** that's right for you.



SE8000 Series Room Controllers

SE7000 Series Room Controllers

### Did you consider?

- > It's not just about savings, it's about **health and academic performance**.
- > Research shows that **health and productivity are directly related to building design and operation.\*\***
- > Green schools have **reduced absenteeism by 15% and increased student test scores by 5%.\*\***
- > Schneider Electric solutions can include CO<sub>2</sub> sensors to help **ensure a healthy environment**.

\*\*Greening America's Schools Costs and benefits, G. Kats

# From a global leader who knows education

Schneider Electric is a global leader in energy management solutions, and we've worked with educational institutions around the world. Our specialists will help you achieve a solution that meets your requirements and delivers the ROI you expect.

## Our company by the numbers:

- > €24 billion (\$31 billion) in sales in 2013
- > 150,000+ employees in more than 100 countries
- > 200+ factories around the world
- > 11,000 R&D engineers in the world



For more information, please visit [www.schneider-electric.com/buildings](http://www.schneider-electric.com/buildings)

### Schneider Electric Americas

Boston ONE Campus  
800 Federal Street  
Andover, MA 01810-1067  
Tel: +1-978-794-0800

### Schneider Electric Asia Pacific

13th Floor, East Wing, Warwick House,  
Taikoo Place, 979 Kings Road,  
Quarry Bay, Hong Kong, SAR  
Tel: +852 2980 8528

### Schneider Electric EMEA

Jägershillgatan 18  
SE-213 75, Malmö, Sweden  
Tel: +46 (40) 38 68 50