6 WAYS TO SMARTER FACILITIES MANAGEMENT

INSTALL ENERGY-SAVING SYSTEMS Today's smart campuses are lowering emissions

and saving energy and money by investing in efficient systems-including HVAC, lighting, roofing, ventilation, plumbing and more. Over 39% of students are concerned

about sustainability.



FAIL

X Haven't assessed your energy efficiency in the last 5 years

X Haven't installed energy-saving

systems or equipment

- X Don't have resources focused on

energy conservation or efficiency

✓ Optimized programming on

PASS

your heating and cooling systems Installed energy-saving lighting

HVAC systems

Installed energy-saving

- Installed a cool roof to lower peak energy demands
- Developed and executed energy conservation programs in your

facilities management approach

\$ Annual energy savings in the hundreds of thousands

and cooling

S Lower campus-wide emissions of 30% or more

\$ 10% savings or more on heating

- S Reduce carbon footprint by reducing emissions by hundreds of metric tons

IMPLEMENT

of energy each year.2

ENERGY-SAVING

cost-effective, energy-efficient measures by making better use of existing equipment.

A typical 50,000-square-foot classroom building uses more than \$100,000 worth

Many campuses are implementing

FAIL PASS X Running air conditioner, heating Turning down or turning off and lighting in closed and unused

systems in buildings when they are not in use

Regular cleaning of condenser coils and changing filters Sequencing chillers on and off

Installed controls for lighting and computers to shut down when idle

Conducted a comprehensive review of your HVAC systems in every building and analyzed them against

building occupancy levels

BENEFITS

S Reduce campus energy

S Reduce school's carbon footprint by hundreds of metric tons

S Gain cost savings of hundreds

consumption by 10% to 25%

S Cut energy bills by 30% or more

- of thousands of dollars

LAUNCH

buildings

savings

× Not scheduling regular

periodic tune-ups

equipment maintenance and

X Haven't created a strategic plan

that identifies every opportunity

to eliminate waste and maximize

Campus-wide energy-saving programs encourage students, staff and faculty to help lower energy use and boost your energy savings. Over 31% of students believe energy

ENERGY-SAVING

PROGRAMS

X Lack effective community programs that encourage students to save energy and the environment

conservation is the most important pursuit.3

Launched student dorm energysaving competitions Launched social media campaigns with energy-saving tips for your community

LEVERAGE INTERNET OF

BENEFITS \$ Increase student and faculty enthusiasm for saving energy **\$** Generate annual energy savings in the hundreds of thousands

Save millions of pounds of waste from filling up landfills

FAIL

X Haven't launched faculty or staff

on energy conservation

recycling programs

X Haven't created campus-wide

educational programs with a focus

Launched recycling programs across campus Launched faculty and staff

PASS

- educational programs that integrate energy conservation as part of the community culture



emergencies ✓ Facilities team proactively manages

- based on data inputs

manage, plan and execute facilities management in many productivity-enhancing ways. There will be 6.4 billion internet-connected things in use worldwide in 2016-and 20.8 billion by 2020.4

THINGS (IoT)

BENEFITS \$ Significant drop in risks from equipment damage and malfunction Significant increase in facilities

IoT is the latest catchphrase for the technology that connects people and business with all of the digital objects in their lives and workplaces. The expansion of IoT is affecting the way campuses

EXPLORE BUILDING INFORMATION MODELING (BIM)

campus buildings and grounds

staff productivity and efficiency

running equipment and buildings

S Free up resources for other critical campus budgetary expenditures

S Lower cost of operating well-

with a trove of information in the palms of their hands for data analysis, diagnostics and decision-making.

FAIL X Haven't explored the potential ✓ Using 2D drawings or 3D models benefits of BIM on your campus generated by BIM on wireless handheld devices to validate and X Do not have a standardized update actual building space

Campuses must find new ways to address the rising costs of facilities management.

BIM enables the creation and visualization of 3D spaces and equipment. Resulting in a database of building information that provides campuses

database of facilities data

X Have no ability to view,

technology

X Have no ability to integrate space

and equipment data with your

validate and/or update space

and equipment with wireless

software for facilities management

configurations

✓ Integrating your BIM space

and/or equipment data with

Management System (CMMS)

Placed maintainable equipment

within BIM models with direct links

to essential resources such as user manuals, pictures and/or videos using wireless technology

your Computerized Maintenance

UTILIZATION How campuses manage their space has

BENEFITS

S Reduce risks of

expensive disasters

\$ Improve facilities data integrity

S Reduce space density challenges

S Reduce time and costs to collect

and validate facilities data

to reduce assumptions

\$ Lower escalating campus

maintenance budgets

OPTIMIZE SPACE

become one of today's biggest challenges for higher education. That's why campuses are establishing reliable space management systems to manage every square foot of space

Over 44% of college and university

presidents say "making better use of facilities" is key to cost reduction.

FAIL

X Can't support the staff and budget levels you need for the work that needs to be done

track space data using wireless

technology

gross and/or net usable square foot space you have on campus X Have building space on campus that is not being optimized X Have no ability to verify and/or

X Don't know exactly how much net,

PASS

- for maximum usage.
- Know the exact square footage and use of every building space on campus Track campus space for

efficient and cost-effective

Continuosly validate space is

facilities-related risks to your campus

accurate and represents existing

Created systems that mitigate

upkeep and repair

configurations

OPTIMIZE / INVEST / EDUCATE

www.gartner.com ⁵ www.nebhe.org ⁶ www.insidehighered.com

\$ Reduce renovation expenses, making financial resources available for other campus

expenses

BENEFITS

\$ Upgraded buildings keep

operations running smoothly

and lower maintenance costs

improve students' experience. enrollment and retention \$ All space is utilized optimally

allows the pursuit of grant or other applicable funding

\$ Well-maintained buildings

\$ Having accurate space

- **READY TO IMPROVE YOUR**
- **ENERGY MANAGEMENT ON CAMPUS?**

DISCOVER 3 MONEY-SAVING STRATEGIES IN THIS FREE GUIDE!

3 SMART WAYS TO IMPROVE ENERGY

MANAGEMENT ON YOUR CAMPUS

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