



# The Energy Smart Guide to Campus Cost Savings

## Executive Summary

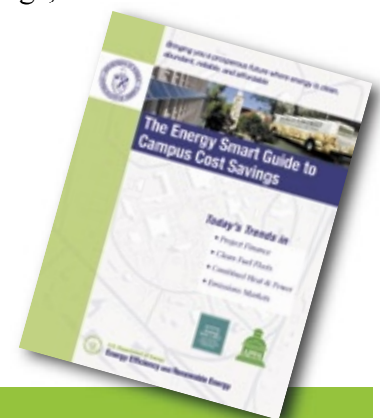
As the nationwide demand for energy continues to grow and the need for emissions reductions becomes apparent, colleges and universities are increasingly taking the lead in addressing environmental concerns. Institutions of higher learning account for 1 quad of energy use annually, the equivalent of 23 hours of usage worldwide. With effective management and an institutional commitment to succeed, the sector could reduce its energy usage as much as 25 percent.

These institutions are realizing energy and cost savings with existing technologies while contributing to cleaner, more livable indoor and outdoor environments. Their pursuit of the next generation of technologies stems from a deepening sense of environmental responsibility, and a willingness to implement energy efficiency measures on campus as long as they are cost effective.

Rising costs and constrained budgets have sparked innovative financing methods. Varying organizational structures, campus topographies, and federal mandates demonstrate that there is no “one size fits all” solution to addressing energy usage and savings at the post-secondary level.

Rebuild America, a U.S. Department of Energy program that focuses on energy-savings solutions as community solutions, works closely with more than 530 partners, including 95 institutions of higher learning. Our goal is to see these institutions realize quantifiable dollar savings through energy efficiency measures. Current investments amount to approximately \$39 million on projects affecting over 44 million square feet, with annual savings of \$11.6 million. Additional projects in the works are projected to add \$25 million in savings, affecting 81 million square feet.

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Rebuild America created *The Energy Smart Guide to Campus Cost Savings* as a resource for business officers and facility managers who are charged with planning, financing and implementing energy efficiency measures. These key decision makers will find value in each of its four sections:

- Project Financing
- Clean Fuel Fleets
- Combined Heat & Power
- Emissions Markets

Learn the four most common financial misconceptions when planning energy efficiency projects and review the pros and cons of the most widely used financing methods. Explore the options for clean fuel fleets. Discover the technological trends in combined heat and power. Learn strategies for getting started with an emissions trading program. Case studies are provided in the four sections to demonstrate the viability of the methods presented, and to provide a window on the leadership of the institutions.

These topics were selected for their increasing relevance to campus energy management and because they are becoming more cost effective. We believe you will find that they are not comprehensively available through any other resource. If you like what you see, please let us know; we hope to produce more documents of this nature in the future. If you have suggestions for additional topics you would like more information on or are interested in becoming a Rebuild partner, please contact us. You can send an e-mail to [danielsze@rebuild.org](mailto:danielsze@rebuild.org) or call 252-459-4664.



**To request a free copy of the Energy Smart Guide to Campus Cost Savings, contact DOE's Rebuild America Clearinghouse by email at [rebuildorders@rebuild.org](mailto:rebuildorders@rebuild.org) or phone at 252-459-4664.**

**To pick up a copy here at the conference, visit Rebuild America's booth # 702 in the APPA exhibit hall, or attend the NACUBO session "High Performance Campus Buildings: Reducing Costs Through Energy and Environmental Retrofits and New Construction" on Monday, July 28th from 2:50-4:10pm in Governor's Ballroom C-D.**