



CASE STUDY

Harding University

PROJECT AT A GLANCE:

Annual kWh reduction:	827,867 kWh
Annual kW reduction:	220.85 kW
Estimated annual savings:	\$66,229
Total project incentive:	\$99,345
Total fixtures replaced:	4,232
Payback period:	~1.5 years

THE OPPORTUNITY

In an effort to enhance energy efficiency, lower operating costs and improve indoor lighting quality, Harding University joined Entergy Arkansas' CitySmart® Program. With the help of the program team and a local lighting contractor, university officials decided campus-wide upgrades to the existing lighting system were necessary to achieve the anticipated energy savings.

THE PROJECT

Spanning 15 buildings, the massive lighting retrofit consisted of more than 4,200 fixture replacements. Existing interior fixtures were primarily substituted with high-efficiency Sylvania Octron T8 2-lamp 800 series lighting systems with reduced ballast factors. (In some cases, 3- and 4-lamp fixtures were still necessary.) In addition, outdated incandescent bulbs were replaced with CFLs where applicable, and both the exterior security lighting system and exit signs were replaced with LEDs.

THE RESULTS

While yielding a short ROI, the lighting retrofit saved more than 827,860 kilowatt hours of electricity a year, equivalent to eliminating the annual greenhouse gas emissions from 122 passenger vehicles, according to the Environmental Protection Agency.

To learn more about the CitySmart Program, visit entergyarkansas.com/citysmart.

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