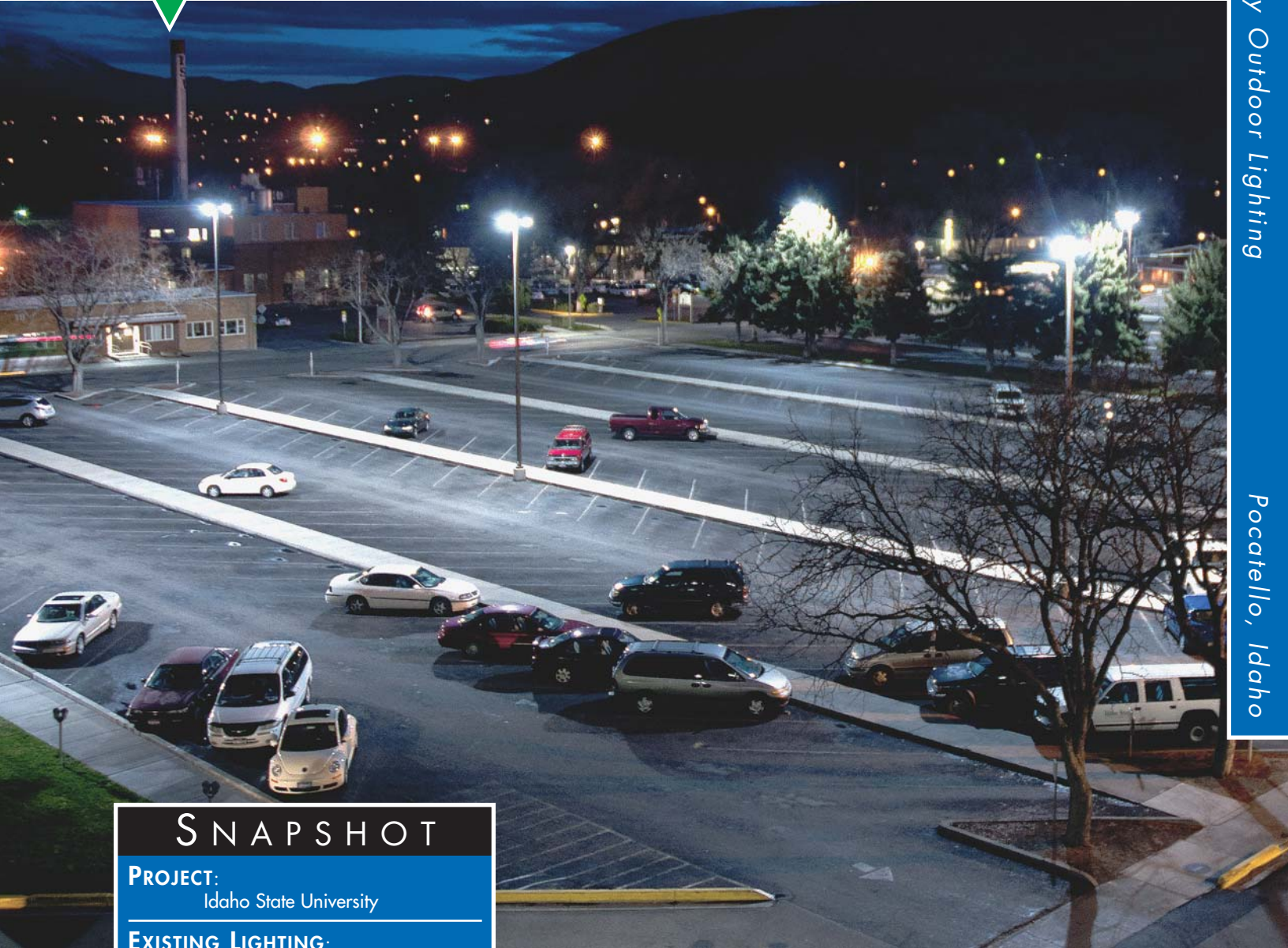




SUCCESS STORY

University Outdoor Lighting

Pocatello, Idaho



SNAPSHOT

PROJECT:

Idaho State University

EXISTING LIGHTING:

A mix of 1000W Standard Probe Start Metal Halide and HPS

REPLACEMENT LIGHTING:

575 Watt Natural White® SPL Long Life Pulse Start Systems with LeafNut™ wireless lighting controls

SCOPE: Replacement of outdoor lighting at various locations around campus

BENEFITS:

- Increased Security
- Increased Light Levels
- More Appealing to Visitors
- Reduced Maintenance

PROJECT SUMMARY

At Idaho State University's main campus, located in Pocatello, Idaho, the scenic surroundings called for a sustainable lighting solution. Replacing the variety of 1000W high pressure sodium fixtures and 1000W probe start metal halide fixtures was a priority to increase campus safety and decrease energy consumption and maintenance costs.

THE SOLUTION

The choice for a total integrated lighting system that exceeded all Idaho State University's goals was a combination of multiple innovative Venture Lighting technologies. Choosing Venture's Natural White® lighting system provided bright white light with excellent maintained lumens, 90+ CRI and a 5000K CCT. Taking the upgrade even further, the 575W Super Pulse Start long life lamp option delivered 40,000 hour rated life to reduce maintenance labor and costs.

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The additional technology of Venture's LeafNut™ wireless lighting control system offers the capability to control lights as groups or individuals. This upgrade allows facility managers to program a dimming schedule from any electronic device with internet access that significantly reduced energy consumption while maintaining the desired light levels. The LeafNut system also produces real time information on the status of each individual lamp; this allows for repairs to be accomplished without depending on observers to report issues.

university maintenance staff due to less re-lamping; the LeafNut system also cut down on maintenance because issues are communicated and solved quickly and easily with the intelligent reporting functions. Both of these advantages directly translated to lower costs for Idaho State.

"The level of support provided by the Venture staff throughout the process was superb."

-John Wall, Lighting Consultant at D&S Electrical Supply Co.

"The level of support provided by the Venture staff throughout the process was superb," said John Wall, Lighting Consultant at D&S Electrical Supply Co., the electrical distributor for this project. "Their support on every level, from technical questions during installation to training and assistance during commissioning, was instrumental in making my planning and selling this project to the school as seamless as possible."

Higher light levels with brighter, whiter light provided the five-square-mile campus with increased visibility and safety for students, faculty and visitors. Reducing the wattage to 575 from the former 1000W HPS and probe start systems still provided more light with less energy and an overall kWh reduction of over 41% for the project. Not including the maintenance savings, Idaho State will attain a payback period of 2.6 years and an annual electrical utility bill savings of over \$17,000.

THE BENEFITS

The extended lamp life achieved with the metal halide Super Pulse Start long life system resulted in less labor for the

After replacing 130 fixtures at five locations around campus, almost 300,000 kWh will be saved annually. With an average rebate of \$0.12 per kWh saved, the significant reduction in energy consumption qualified the university for a substantial rebate through Idaho Power. These rebate funds allowed Idaho State University to begin more campus sustainability projects and far surpass the goal of obtaining a new lighting system that made the campus more environmentally friendly.



Venture's 575W Natural White Super Pulse Start Long Life (SPL) Lamp

COMPARISON

Existing 1000W Systems Probe Start MH	vs	Venture's 575W Natural White® SPL System
- System Watts Saved per lamp		450
12,000	Rated Life Hours	40,000
68	CRI	90+
4000K	Color Temperature	5000K
0.60	LLD	0.90
- Overall Project kWh Reduction		>41%
- Annual Savings		\$17,000+
- Pay Back		2.6 yrs
<i>not including maintenance savings!</i>		

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