

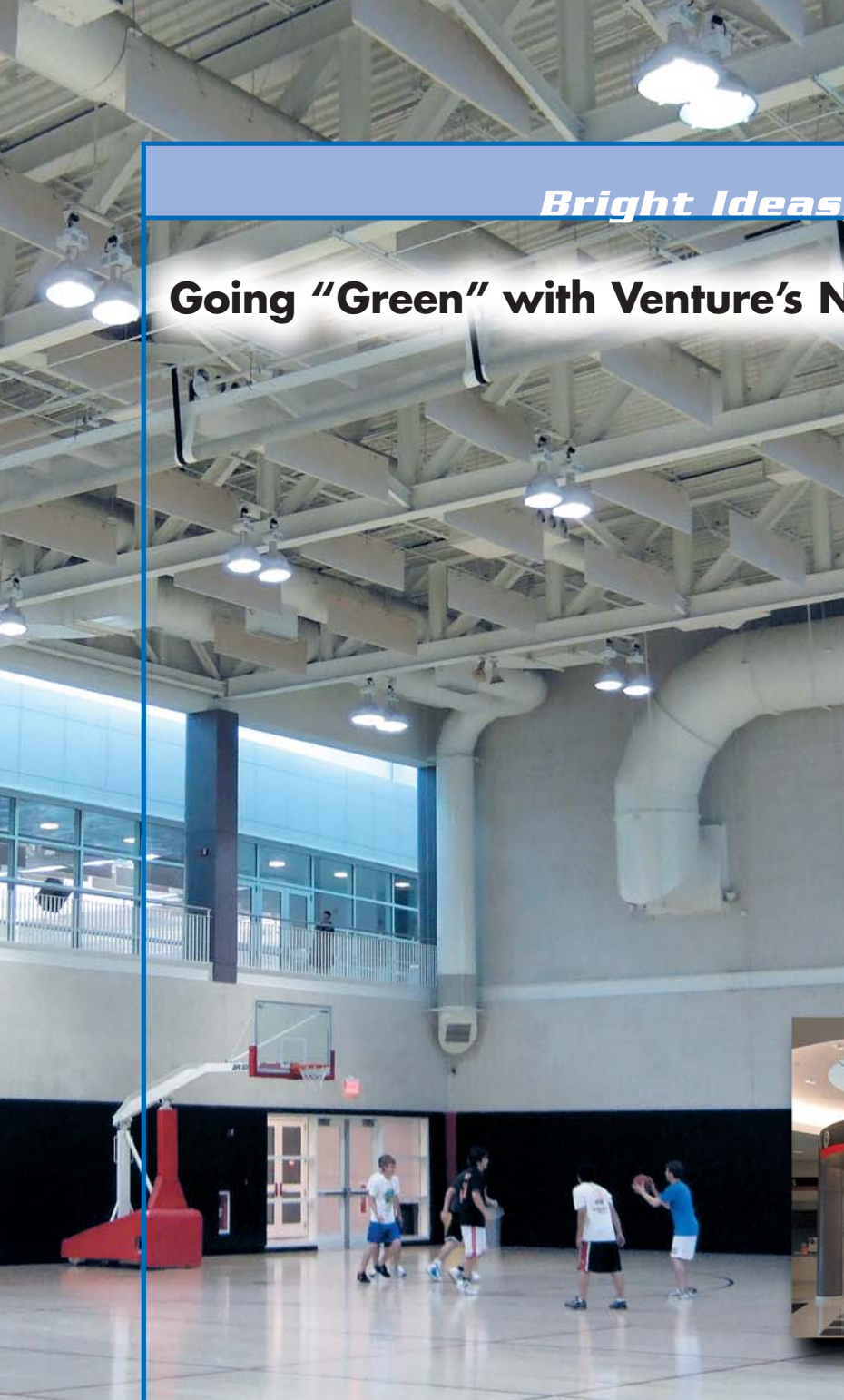
Bright Ideas, Bold Innovations

Going "Green" with Venture's Natural White® Solution

Background

Building a new facility that is "Green" is great, but what about facilities built before energy conservation was a common consideration? The University of Maryland Campus Recreation Services Department asked themselves this very question. Many of the buildings that make up their College Park campus were built many years ago and inherent in these early facility designs are energy inefficiencies. They decided to begin looking at high usage areas where lighting is on 24/7. Their goal is to save energy without sacrificing light levels for the enjoyment and safety of their students, faculty and guests. The University's Eppley Recreation Center was the first building under consideration and the gymnasium was identified as the first phase of the project. The challenge also included staying within a modest facilities budget.

- **Annual Savings of \$6,600**
- **25% Reduction in Energy Usage**



"In the tough financial crunch that universities are facing, we are pleased to have energy efficient lighting solutions that offer cost savings. By reducing our energy consumption and maintenance costs, we are able to offset ever increasing utility rates."

- Andrea Thompson
Associate Director of Facilities, University of Maryland

University of Maryland's Geary F. Eppley Recreation Center retrofitted with Venture's energy saving Natural White® lighting systems

From



VENTURE
LIGHTING

The Facts

NATURAL WHITE® PULSE START LIGHTING SYSTEMS



The Old

The gymnasium was lit with 60 tandem 400W Standard Metal Halide enclosed high bay fixtures, at a mounting height of 35 feet (spacing of 25 foot centers). Photopic foot candle readings ranged from 42 to 58; Scotopic readings ranged from 79 to 105. Energy draw per fixture was measured at 1.67Amps.

The New

The fixtures were retrofitted with Venture Lighting's 320W Natural White®, 90+ CRI, pulse start metal halide lamp and 277V Opti-Wave® ballast system. The University liked the look of the 5000k light that augmented the natural daylight from large windows along the perimeter of the gymnasium. Photopic foot candle readings ranged from 68 to 85; Scotopic readings ranged from 135 to 186.

The Benefits

Benefits of retrofitting for energy savings:

- Reduction of 106 system watts from 455 for the 400W standard MH system to 349 for the 320W PS system
- Amperage readings of 1.25A were taken from the 320W fixture equating to an actual 25% reduction in energy usage (1.67A from the 400W system)
- Financial savings of over \$6,600 per year at \$0.1082 per kWh for the 60 fixture gymnasium
- Light levels improved by an average of 55% Photopic and 75% Scotopic

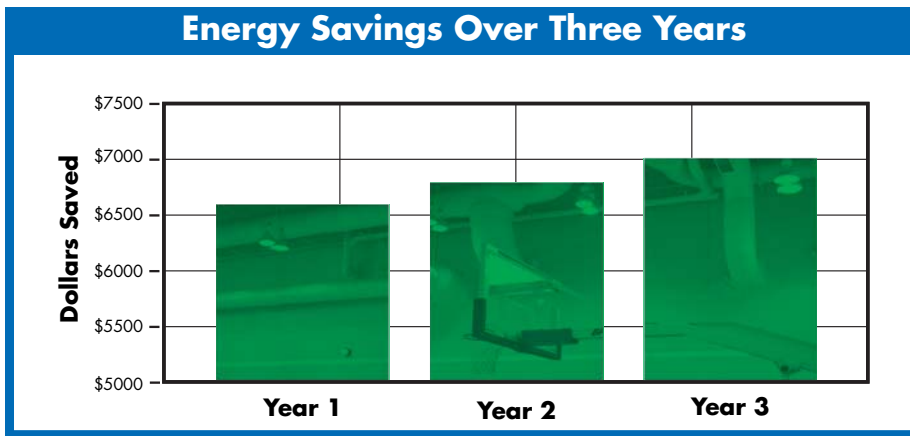
Comparisons

Natural White® 320 Watt PS		vs	400 Watt MH	
60	Number of Fixtures		60	
90+	CRI		65	
75 fc	Illuminance (Photopic)		48 fc	
160 fc	Illuminance (Scotopic)		90 fc	
.90	Light Loss Factor		.65	
182,000 kWh	Energy Consumption		243,100 kWh	
\$6,600/year	Savings		0	
25%	Energy Savings		0	

Note: based on 24 hours/day/year operation at \$.1082/kWh



Energy Savings Over Three Years



Total Energy savings over three years: **\$20,400**

Note: Assumes 3% annual increase in energy costs

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