

Jacob K. Javits Convention Center

PROJECT OVERVIEW

- ▶ 400,000 ft² retrofit
- ▶ 50% fixture reduction
- ▶ 1 million kWh annual energy savings
- ▶ \$100K annual savings
- ▶ <2 year pay back

"My initial tests convinced me that it would be a good capital improvement project. The primary reason from my end is that it made good business sense in two ways. It would save energy dollars and, at the same time, help attract convention business by putting better light on the show floor."

Tony Bracco
Assistant Director
of Operations
The Javits Center
New York, NY

CARBON REDUCTION EQUIVALENTS



⇒ 2040



⇒ 136

Background

New York City's Javits Center plays host to millions of exhibit and convention visitors each year. In an effort to slim the energy budget and improve the lighting quality of this premier facility, the Center's Tony Bracco decided to try out two 400-watt Stingray sample fixtures. He wanted to test the performance of Stingray's patented co-centric™ optical system in the high mounting height exhibit hall environment.

Solution

Impressed by the test results, Bracco decided to replace the existing system of 1,692 standard 400-watt metal-halide fixtures with the Stingray SPA high-bay featuring acrylic prismatic reflector and pulse-start lamp technology.

The performance of the SPA high-bays made possible a 50% reduction in fixture count while improving light levels. "Anytime that you can take down four lights and put up two, and increase your lighting output and quality, you have to be happy", said Bracco.



Photo courtesy of the National Marine Manufacturer's Association (NMMA)

Of the retrofit process itself, which began in October 1998, Bracco said "It's pretty simplistic. You just go up on the aerial lift, take down the old fixture and wire in the new one. It is sort of plug and play."

Results

The annual savings of 1 million kilowatt-hours and \$100,000 in electrical use, made the payback period for this project less than two years. Over 400,000 square feet of convention center space in the 3 main halls- 3A, 3B and 3E.- were retrofitted with the Stingray system.



"The whole premise behind the retrofit was to increase my lighting output and cut my wattage in half", Bracco noted. In addition, the Stingray system provided a more uniform light distribution which is critical in a convention center where all exhibitors need equal illumination.

[‡]application specific maintained illuminance recommended by the Illumination Engineering Society of North America

*as judged by the facility's staff and workers

