



Service & Product Provider Partner

LighTec, Inc.

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Customer

New Hampshire Ball Bearings, Inc.

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New Hampshire Ball Bearings receives new environment friendly, energy efficient lighting system.

Project Scope

As part of its commitment to excellence in environmental performance, New Hampshire Ball Bearings, Inc. (NHBB) partnered with LighTec, Inc. to install an innovative lighting system at its Astro Division in Laconia, New Hampshire. The objective of the project was to replace the 400 watt Metal Halide fixtures with more efficient 3 and 4 lamp T5 High Output fixtures, saving \$118,000 per year with a payback period of under a year and one-half.

Project Summary

The project targeted energy conservation through prescriptive lighting design, customized to meet or exceed the customer's requirements.

- **Energy Savings**
The new lighting system reduced electricity consumption by 50%, from 2.2 million to 1.1 million kWh, achieving a savings of nearly \$118,000 per year. It also reduced the yearly atmospheric output of carbon dioxide by 1.5 million pounds, sulfur dioxide by 13,000 pounds, and nitrogen oxide by 6,000 pounds. Additionally, maintenance costs were reduced by 49%.
- **Investment**
The full cost of the project was approximately \$245,000 with an adjusted cost of \$166,000 through an incentive from Public Service of New Hampshire, a utility company.
- **Financial Return**
The project payback period was 1.4 years. This new lighting system was one of a number of measures undertaken by NHBB to enhance environmental performance, increase operational efficiency, pursue goals of continuous improvement, and meet or exceed the expectations of stakeholders.
- **Other Benefits**
Employees now enjoy an improved and safer work atmosphere generated by the new lighting system.

Monitoring & Verifying Energy Savings

Energy readings were taken prior to the project's commencement and again upon the project's completion. LighTec also monitored the utility bills pre- and post-installation to quantify real savings.

Distinguishing Value

LighTec, Inc. stands behind its projects with superior customer service, professionalism, quick turn around time for problem resolution, and continuous technical support for up to 5 years. This project demonstrated the cost effectiveness of lighting retrofits, especially in conjunction with utility rebates.

