

***LighTec, Inc.***

*An Energy Services Company*

## School Case Studies

Prepared by:

*LighTec, Inc.*

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Merrimack, NH 03054

[www.lightec.net](http://www.lightec.net)

## Project Name: The Litchfield School District



### Project

**Description:** LighTec worked with the Litchfield School District (SAU 27) to design and build energy-efficiency projects in the High, Middle, and Elementary Schools. The energy efficiency project work scope included detailed lighting energy audits for all schools and, in the Middle School, an HVAC audit and building simulation, using the e-Quest energy modeling tool. The school district elected to implement all recommended lighting efficiency measures in all its schools, including High Performance T8 lighting retrofits, lighting control upgrades, and new T5 fixtures in the gymnasiums and multi-purpose rooms. In the Middle School, LighTec provided an HVAC controls system retrofit, including a meshed network energy management system.

To pay for this project, the school leveraged funding from the Public Service of New Hampshire (PSNH) and the Regional Green House Gas Initiative (RGGI) arranged by LighTec, Inc.

### Client and Owner Information:

Steve Martin

Business Administrator

SAU 27-Litchfield School District

1 Highlander Court

Litchfield, NH 03052

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### Installation Cost and Energy Savings:

#### *Project Cost:*

\$413,795

#### *Value of Energy Savings:*

\$84,006.00 for electricity;

\$20,206.00 for fuel

#### *Energy Savings Performance:*

459,869 kWh from electricity;

1,363 mmbtu from fuel

#### *Completion Date:*

August, 2010