



BOW HIGH SCHOOL
SAU 67 – Bow and Dunbarton School Districts



Bow High School in Bow, NH is a two story, 137,000 sq. ft. full purpose public academic facility, built in the 1990s. During the summer of 2017, a two stage project was undertaken to improve energy efficiency in the building. Stage 1, completed in July 2017, involved power treatments to improve Power Factor and reduce distribution losses on many of the electric motors in the HVAC systems to lower electricity

consumption and demand. Stage 2 was the retrofitting of the majority of the existing fluorescent lighting to much more energy lean LED solutions, providing cost savings as well as higher quality interior environment. This was completed in July of 2018.

SAVINGS SUMMARY

AC Motor Treatments

\$10,424 mean annually

Lighting Retrofits

\$18,883 annually

These savings represent the recuperation of two monthly electric bills at BHS . This is taxpayer money that can now be invested in the facility, and/or allocated for educational purposes.

	<i>EQUIVALENT</i>	<i>ANNUAL</i>	<i>Green House Gas (GHG)</i>	<i>REDUCTION</i>	
Description	Pounds CO2	Barrels of Oil	Tons of Coal	Pounds SO2	Number of Vehicles' CO2 Emission
Reduction	183,303	128	26	219	13

Duane Ford/Assistant Superintendent for Business Administration:

“In our district, we try to do energy efficiency projects every year. The team at Energy LB Resources showed our facilities department an innovative and cost effective way to reduce electric utilization without changing out equipment in our HVAC system. We were able to save significant budget dollars with little upfront cost and a low payback period.”