

State Energy Program (SEP)

State of New Hampshire Success Story

School Energy Efficiency Development (SEED) Grant Program – Final Report

SEP Funding Mechanism: State Energy Program Formula Grant

Total SEP Investment: \$80,000

Period of Performance: PY21 (November 2021 to June 2022)

Location: Campbell High School in Litchfield, NH

Project/Grantee Goals: To reduce Campbell High School's energy costs and provide a safer, healthier learning environment for the school's students and staff.

Success Summary:

With annual funding from the U.S. Department of Energy's (DOE) State Energy Program, the New Hampshire Department of Energy (NHDOE) continued to fund its School Energy Efficiency Development (SEED) Grant Program that was started in 2018. The program is an annual competitive matching grant program aimed at achieving energy efficiency in New Hampshire's public schools. These projects have the dual benefit of lowering a school's energy costs to provide a direct financial benefit for school budgets and local property taxpayers, as well as providing a safer, healthier learning environment for students and staff.

DOE's State Energy Program (SEP) provides funding and technical assistance to states, territories, and the District of Columbia to enhance energy security, advance state-led energy initiatives, and maximize the benefits of decreasing energy waste. SEP emphasizes the state's role as the decision maker and administrator for program activities within the state that are tailored to their unique resources, delivery capacity, and energy goals.

NHDOE awarded \$80,000 through its SEED Grant Program to help Campbell High School implement energy efficiency improvements. The school also leveraged financial incentives through the NHSaves program to help fund the project. The project exclusively targeted the school's outdated and inefficient interior lighting. The school's fluorescent and incandescent bulbs with manual controls and aging occupancy sensors required constant maintenance by school staff. Lighting is also a significant end-use for school facilities – in FY19, the last full school year before the COVID-19 pandemic, lighting costs made up 31% of Campbell High School's electric bill. With SEED Grant Program funding, the school successfully replaced or retrofitted more than 1,200 lighting fixtures throughout the school with LEDs, along with Phillips Lighting Interact Pro wireless sensors that provide dimming capabilities, occupancy sensors, and daylight harvesting.

The school's contractor for the project, Energy Management Consultants, Inc. (EMC), and Phillips Lighting hosted training sessions for school personnel to learn how to operate and program the lighting fixtures. These new fixtures receive signals from wireless devices that allows the user to pre-program light levels and changes settings. These settings can be adjusted anytime by school personnel. EMC also worked with the school to determine the fixture settings, including default

light level settings, maximum light levels, and occupancy sensor timing. This important training will allow the school to better regulate its lighting and energy usage.

As in previous SEED Grant Program funded projects, GDS Associates served as NHDOE's technical monitor on the project. In this role, GDS staff conducted pre- and post-installation visits and used their robust knowledge about energy efficiency projects and construction processes to report on project progression. GDS Associates was a vital partner in providing ongoing, in-person monitoring to ensure that the project followed the program's parameters.

Campbell High School successfully overcame supply chain challenges to complete the project on schedule. Within the first year of operation, these improvements at Campbell High School will save an estimated 170,000 kWh of electricity and more than \$30,000. These savings can be reinvested into other educational initiatives or into advancing Litchfield School District's renewable energy goals, such as installing solar PV.

The New Hampshire Department of Energy marked the accomplishment of the SEED Grant with a tour of Campbell High School in August 2022 alongside Governor Sununu, as well as school leadership, students, and staff.

Quotes:

The SEED Grant Program helped enable the Litchfield School District to update lighting and fixtures throughout its 20-year-old high school. The new lighting is better for learning and will save valuable taxpayer funding well into the future! Everyone benefits when we leverage our federal, state and local partners to help a small school district make positive strides.

- Michael Jette, Superintendent, Litchfield School District

In partnership with the New Hampshire Department of Energy and Eversource, Energy Management Consultants, Inc (EMC) was able to design and implement a turnkey LED upgrade for the Campbell High School in Litchfield, NH. This solution provides the district not only with years of maintenance free lighting but also an overall improvement to the educational environment, students, and teachers alike. And with the innovative and sustainable selection of the Philips Signify Interact Pro Enterprise Control System, Campbell High School is, now, one of the first schools in the nation to enable this high-level Bluetooth control throughout their facility gaining the ability and visibility to monitor and control their energy usage and consumption. EMC is proud to have taken part in this exciting project!

- Carl Edin, Project Developer, Energy Management Consultants

As the technical monitor for the Litchfield School project, GDS Associates was able to see firsthand the improvement in lighting for students and staff throughout the building. The new LED lighting will reduce energy usage and costs for the school district for years to come and modernizes the school with wireless lighting control technology.

- Michael Coty, Project Consultant, GDS Associates

Media: Governor Sununu's Twitter posting can be found [here](#).

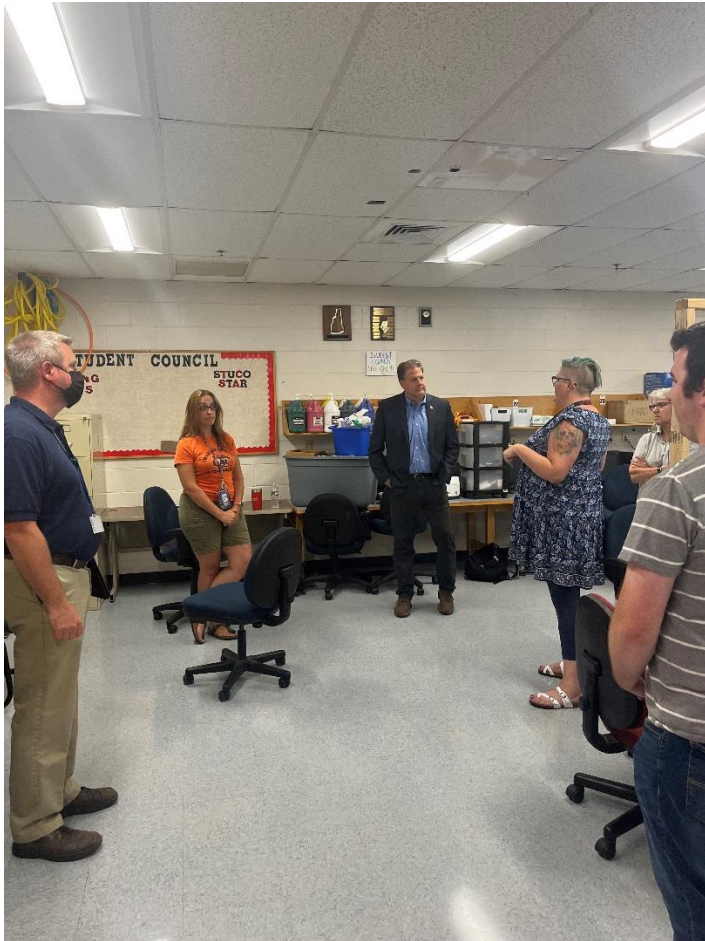
Photos:



Left: Governor Chris Sununu touring the Campbell High School gymnasium with staff.



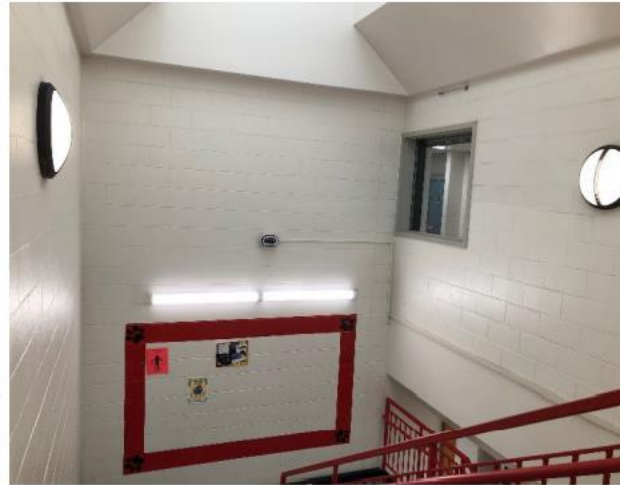
Left: Governor Chris Sununu, Litchfield School District and Superintendent Michael Jette talking with students about the lighting improvements in Campbell High School.



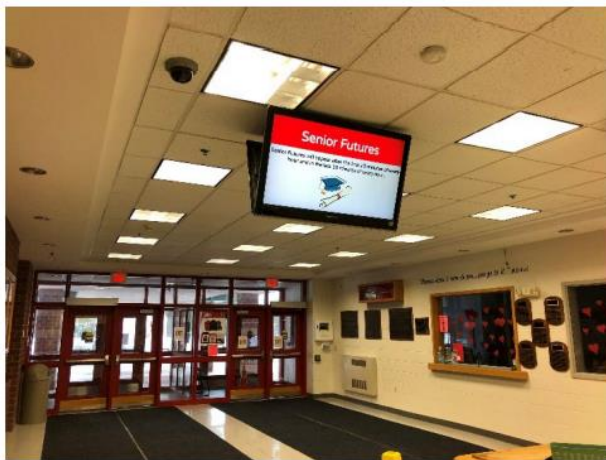
Left: Governor Chris Sununu talks with Campbell High School staff about classroom lighting improvements.



Above: Before (left) and After (Right) Gym



Above: Before (left) and After (right) Stairwell Lighting



Above: Before (left) and After (right) Lobby Lighting



Above: Before (left) and After (right) Classroom Lighting