

PROBLEM + SOLUTION

The King Street Center was experiencing high monthly demand charges. The Center approached Northern Reliability to engineer a cost effective solution to reduce their electric bill. After analyzing the electric load profile, NRI's team determined that a 30kW/76.9kWh solution would be the optimum size to reduce daily peak demand. The result was an intelligent energy system that adjusts to fluctuating grid costs and charges the battery when prices are at their lowest. This was then paired with an environmentally controlled cabinet that tied in with the building management system. NRI performed all aspects of the project including design, fabrication, installation and commissioning. The system also has space for an additional battery bank for more energy storage.

OVERVIEW

APPLICATION: Peak Demand Reduction

SYSTEM TYPE: Grid-Tied, Distributed Energy Storage System

BATTERY SIZE: 76.9kWh

LOCATION: Burlington VT, USA

YEAR: 2016

BATTERY TYPE: Lithium-Ion

CONTROLLER: SC-200

ENCLOSURE: Custom, NEMA 3R, Environmentally Controlled Cabinet

SYSTEM DIMENSIONS: 63"H X 76"W X 32"D



FEATURES + BENEFITS

On-site data logging

Long lasting battery life

Environmentally Controlled Shelter + Battery Management System

30kW | 480 V 3-Phase inverter (Stepped down to 208 V. building service)

REDUCTION IN ENERGY COSTS: *Significant annual savings*

MODULAR SIZING: *Can accommodate future loads for facility expansion*

SMART CONTROLS: *Building Management System integration + NRI SC-200 Controller*



“My experience with Northern Reliability was very positive. I felt that I was working with a professional, committed team that went the extra mile to ensure the project went well. Northern Reliability worked to ensure proper cooling of the battery and engineering updates were installed with minimum disruption to the system.”

Chuck Ginsburg - King Street Center Board Member