

## OVERVIEW

Land protected by the National Wildlife Refuge is meant to be secluded and peaceful. However, when an environment requires a watchful eye to maintain its health, an outpost with little to no power can make this task quite difficult. In this case, the US Department of Fish and Wildlife knew that their outpost on Block island desperately needed an upgrade. Northern Reliability was hired to install a reliable energy storage system, act as a general contractor and bring materials to the island. NRI's team installed a 34 Kilowatt hour battery bank, upgraded the floor supports, replaced the outdated photovoltaics and introduced a new standing-seam aluminum roof. Altogether, Northern Reliability's solution allowed the Block Island outpost to comfortably remain off the grid while taking care of all septic/water pump demands, kitchen appliances, lights and communications equipment.



## BENEFITS

### FULLY UPGRADED SYSTEM

*Replacement photovoltaics, reinforced flooring, aluminum standing-seam roof and a state of the art energy storage system.*

### OFF GRID OPERATION

*Completely disconnected from the grid, NRI's energy system powers both the water/septic pumps, lights and kitchen/communications equipment.*

### WEATHERPROOF

*A new roof and critical supports ensure a long lasting solution no matter what weather situations are encountered.*





## THE ENERGY CHALLENGE

With an aging power system, weakening weather-proofing and expensive costs for generator fuel, US Fish and Wildlife needed an inexpensive and effective upgrade for their outpost on Block Island.

## THE POWER SOLUTION

Northern Reliability integrated 4000 watts of photovoltaic panels, a reliable lead-acid battery storage system and a reinforced, weatherized structure to bring power to a remote US Fish and Wildlife outpost and communications equipment.

## SYSTEM CONFIGURATION

*4,000 watts of photovoltaics*

*Auxiliary generator inlet*

*4,000 watt inverter*

*34 kWh hour battery bank*

*Integrated cell modem*

