



## CASE STUDY: VAN RENSSELAER'S RESTAURANT, WELLFLEET MA

*A Multi-Year Participant of Cape Light Compact's Commercial and Industrial Energy Efficiency Programs*

### PROJECT DESCRIPTION

Peter and Diane Hall, the owners of Van Rensselaer's restaurant in Wellfleet, contacted the Cape Light Compact last year when they wanted to re-lamp their 150-seat restaurant and raw bar. The couple had already worked with the Compact some ten years earlier to upgrade to Compact Fluorescent Lights (CFL) and T8 fluorescent fixtures in their kitchen and outdoor area. But in 2002, when the Halls replaced their kitchen and outdoor lighting, there was not yet a cost-effective, energy efficient way of replacing their indoor, recessed incandescent lights.

Fast forward ten years; lighting technology has evolved and matured, allowing the Halls to become one of the early adopters of Light Emitting Diode (LED) lighting technology. LEDs produce light when electrons pass through a semiconductor material, whereas an incandescent bulb produces light when a filament wire is heated to high temperatures, resulting in a waste of 90% of energy in the form of heat. LED technology offers a higher light output per watt, as well as a longer life expectancy than incandescent bulbs.



#### Project Facts

- ✓ Fluorescent Lighting Project
  - Incentive: **\$1,404**
  - Annual kWh Saved: **3,924 kWh**
- ✓ LED Lighting Project
  - Incentive: **\$8,205**
  - Annual kWh Saved: **11,021 kWh**
- ✓ Cooler Controls Project
  - Incentive: **\$6,866**
  - Annual kWh saved: **14,587 kWh**

The Halls retrofitted the interior of their restaurant with LED down lights and are now enjoying the cost and energy savings associated with improved LED technology. Upgrading to LED light bulbs is not the only energy efficient measure the Halls pursued in 2011. They also upgraded controls on their walk-in cooler units.

The new controls ramp the system up and down rather than turning it on and off, which resulted in a more efficient temperature regulation system and an increased the life expectancy of the cooler equipment. The LED and cooler control measures combined to drive a 15% reduction in annual energy usage for the restaurant.

### Participation is easy!

Call (800) 797-6699 and sign up for a **FREE energy assessment** for your facility. Cape Light Compact will assist you with your energy efficiency project from start to finish.



Cape Light Compact is an inter-governmental organization consisting of the 21 towns and two counties on Cape Cod and Martha's Vineyard. The Compact's mission is to serve our 200,000 customers through the delivery of proven energy efficiency programs, effective consumer advocacy, competitive electricity supply and green power options.

[www.capelightcompact.org](http://www.capelightcompact.org)

1-(800)-797-6699



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