



LOCATION

Marty's Reliable Cycle
Morristown, NJ

Challenge

The challenge for Haglid Engineering was to renovate an existing retail bicycle shop, which was originally built as a home in the late 1800s, so as to achieve certification under LEED[®] for Commercial Interiors.

Solutions

By working with the LEED[®] accredited staff at Haglid Engineering, Walter Kanzler, AIA, LEED AP of Eco Collaborative, LLC was able to achieve the ultimate goal of LEED certification. Haglid engineers provided several value-added services to the project, including energy modeling, ventilation design consultations, and certification assistance through LEED Online.

The BPE energy recovery ventilator was a key component of the project. Just one BPE-XE-MIR 500 series heat exchanger contributed toward satisfying EA Credit 1.3 – Optimizing Energy Performance, HVAC, MR Credit 5 – Regional Materials, IEQ Credit 1 – Outdoor Air Delivery Monitoring, and IEQ Credit 2 – Increased Ventilation. In combination with the other energy reduction measures, Marty's new shop is expected to use 40% less energy.

Marty's Reliable Cycle is "saving the world with bikes," and through its incorporation of high-efficiency energy recovery, the shop is also taking 39,502 car-miles (36,182 lbs. of CO₂) off the road every year.