

## IBC TEAMS WITH TECHNOLOGY SCHOOL IN PURSUIT OF LEED GOLD RATING



### **Morris County Vocational School of Technology Denville, NJ**

In transforming itself from a vocational school to a full-time highschool, the Board of Education wanted the Morris VoTech building to reflect its new image and cutting edge technological curriculum. With the installation of additional classrooms, large lecture halls, new science labs, a fitness center and renovated administrative offices, the school is in pursuit of a LEED Gold rating.

As with most school facilities, Morris VoTech consists of a campus of buildings which have evolved through numerous construction phases. During each of these phases, automation technology has advanced. In the early 1990's, the school installed a distributed microprocessor-based control system which included multiple controllers networked to a DOS-based PC. This system was upgraded in the mid 1990's to a fully distributed architecture utilizing a windows-based server for the operator interface.

Integrated Building Controls is currently upgrading the building's automation system to a web-based, thin-client server architecture to help the school attain LEED credits. Rooftop Air Conditioning Units, Variable Air Volume Boxes, Reheat Coils, Heating and Ventilating Units, Boilers, Pumps, and other systems are networked together and accessible over the web.

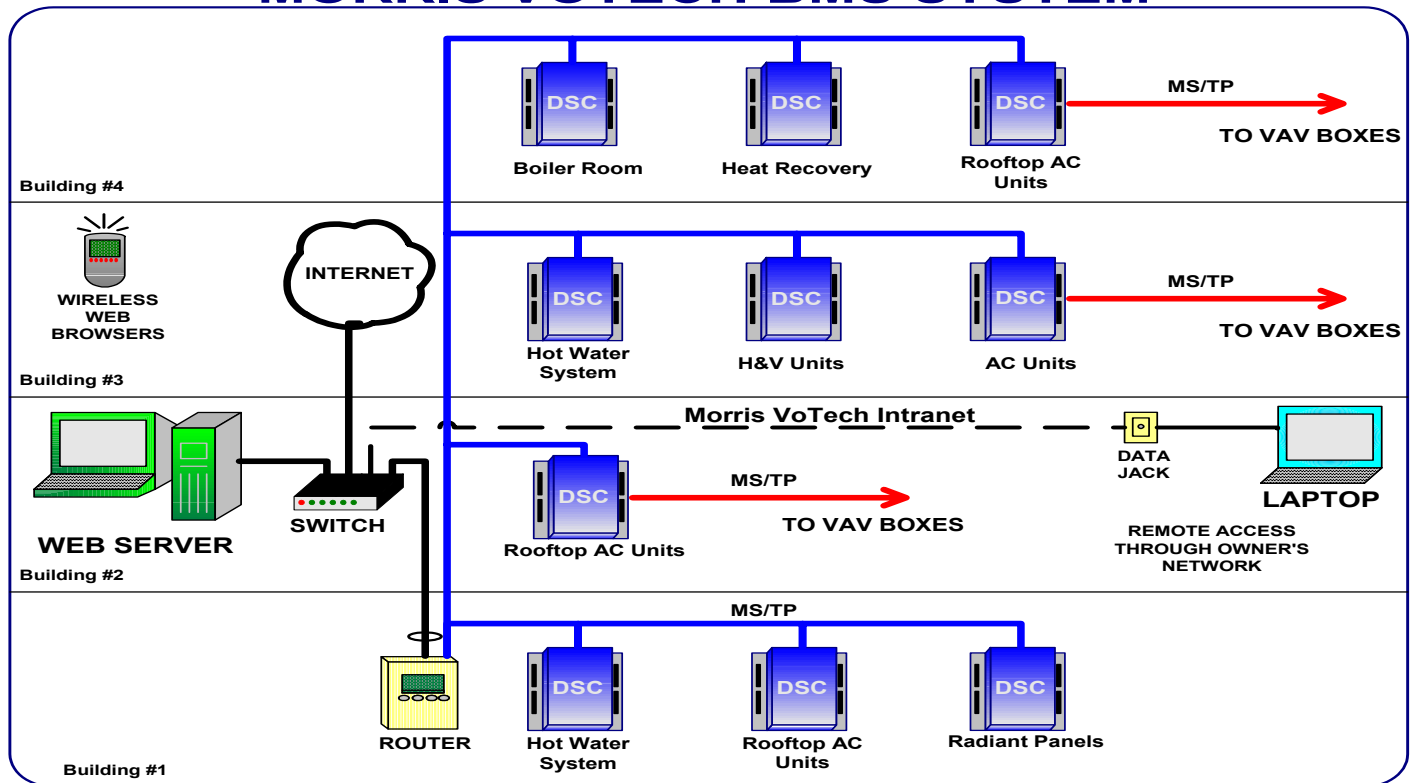


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# MORRIS VOTECH BMS SYSTEM



## LEED Credits for Morris VoTech Project Relating to the Building Automation and Control System

### Energy & Atmosphere:

#### Prerequisites:

- Fundamental Building Systems Commissioning
- Minimum Energy Performance, Satisfy ASHRAE 90.1-1999 as the Energy Baseline

#### Credits:

- Optimizing Energy Performance
- Additional Commissioning
- Measurement and Verification

### Indoor Environmental Quality:

#### Prerequisites:

- Minimum Indoor Air Quality (IAQ) Performance, Compliance with ASHRAE 62-2001

#### Credits:

- Carbon Dioxide Monitoring
- Increase Ventilation Effectiveness
- Controllability of System, Non-Perimeter

