

# **Industrial SPP/ Partner Teaming Profile**

# Service/Product Provider

### The Dome-Tech Group

510 Thomas St., Ste. 170 Edison, NJ 08837

Business: Engineering Svcs., Energy Consultation

Keith Rinaldi, Vice President Phone: 732-661-0144

Email: k\_rinaldi@dome-tech.com

# **Industrial Partner**

### Merck

P.O. Box 2000 Rahway, NJ 07065

Business: Pharmaceuticals Vince Gates, Energy Manager

Phone: 732-594-3170

Email: vincent\_gates@merck.com

# Dome-Tech's retro commissioning efforts lead to Merck's implementing an HVAC control strategy resulting in annual savings of over \$230,000.

### **Project Scope**

Dome-Tech used a rigorous retro commissioning process to identify variances between the design energy baseline and the actual performance of one of Merck's newly constructed laboratory facilities. Dome-Tech recommended solutions for minimizing energy consumption.

### **Project Summary**

The retro commissioning of the laboratory facility highlighted that once-through air exchange (that ensures that all fumes are safely vented) was in effect at all times. Dome-Tech recommended programming the existing Building Automation Systems (BAS) control technology to automatically lower the temperature in 150 laboratory suites between the hours of 8 p.m. and 6 a.m. from 72 °F to 64 °F. Individual lab suites that wanted to revert to normal operating temperatures during these hours could override the system by simply turning on the light switch in their lab.

- Energy Savings
  - \$230,000/year or 31,200MM BTU's
- Investment
  - \$135,000 initial no recurring
- Financial Return
  - Payback was achieved in 7 months
- Other Benefits

This has been identified as a Best Practice and a site standard for all laboratories at the Rahway Facility. Turning on a light switch overrides the system without Maintenance involvement during off-peak hours.

### **Monitoring & Verifying Energy Savings**

By reprogramming the BAS, Dome-Tech and Merck were able to see immediate results in reduced energy consumption during the off hours. Lower utility bills confirmed the savings.

#### **Distinguishing Value**

Dome-Tech develops good customer relationships. Because of their good faith history, innovative solutions are expected and welcomed, rather than challenged, during project discovery. In this way both parties are benefited.

