

CASE STUDY

**LIFE CYCLE  
EXTENSION OF  
EXISTING  
INFRASTRUCTURE  
AND APPLIANCES**



Upgrade **Evolve**

TECHNOLOGY ENVIRONMENTS HUMAN PERFORMANCE

## MISSION OBJECTIVES

# LIFECYCLE EXTENSION

- UPDATE OBSOLETE ELECTRONIC CONTROLS OVERLAY ON FAILING MECHANICAL COMPONENTS
- RECOMMEND EQUIPMENT WITH INDUSTRIAL QUALITY OVER SHORT TERM COMMERCIAL
- REDESIGN APPLIANCES AND SYSTEMS FOR LONGER DUTY CYCLES WHILE REDUCING WORKLOAD ON STAFF



Past experience in manufacturing and materials analysis has taught us that the lowest possible cost components can drive down efficiency and reliability of the overall applied system. With a focus on quality, longevity, and duty cycle, U.E. staff can drill down to weaknesses in systems and find where to bolster design for best reliability and performance.

“When looking at the custom built architectural market there are so many weak links to overcome.” ~ says Douglas Lafever, President of U.E. Consulting. He adds, “ Decade by decade the quality and codes shift in the construction market causing hospital administrators and owners to inherit an ever random list of defects that are hidden within the walls of their buildings. Some are connected to labor skill shortages and other defects to fad products or shortcuts to save money or time.”

A level 1 trauma center in Michigan needed to overhaul its emergency power systems. Not knowing if any equipment could be monitored remotely, U.E. Consulting created a roadmap for remote monitoring, management, and response of emergency power systems using their newly designed native BACnet Environmental Control System. Evaluating equipment, components, systems, protocol security, and intuitive graphics with staff U.E. Consulting created a cost effective and efficient monitoring and response solution to add resilience to the hospital.



Component life cycle and materials quality are integral to the reliability of active working systems such as vacuum pumps, transfer switches, generators, air handlers, and LED drivers.

Most administrators and managers do not have the time to explore the regulations and complexity of these systems and need a partner to guide them through the evaluation and application process. Many are unaware that independent testing and quality control standards are applied indiscriminately to a range of products and do not apply to systems. Some products are of such use that they are purchased like a commodity may have no quality control in manufacturing yet often fail and create cascade failures leading to catastrophic issues.

A longer life cycle without failures is the unspoken promise of every solution offered today. Trust our team to bring real evolution to your organization.

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