

Duquesne University Makes an Old Building Smart



Duquesne University's Rockwell Hall is home to one of the top Sustainability MBA schools in the world as ranked by Corporate Knights.

To stay at the top of their field, Duquesne University's thought leaders embraced technology to incorporate Rockwell Hall's building performance into their classes and overall curriculum.



Owner's Project Goals

Use technology to achieve the following:

- Whole building performance modeling
- Smart Building Infrastructure
- Outdoor Air Quality Station
- Premier Indoor Air Quality
- Achieve 2030 Goals for Energy Use

Metrics

- Reduce Energy Use Intensity (EUI)
- RESET Air
 - Particulate Matter 2.5 (PM2.5) : < 12 µg/m3
 - Particulate Matter 10 (PM10): < 50 µg/m3
 - Total Volatile Organic Compound (TVOC): < 400 µg/m3
 - Carbon Dioxide (CO2) < 600 ppm

Sustainability Programs

RESET Air certification



Project Highlights

Whole building performance model with simulation showing how to renovate an old building to perform like new within capital constraints and renovation schedule of one floor every other year.

Smart Building Infrastructure including:

- AUROS360 Integrated Dashboard
- Tridium Niagara JACE
- Database and Integrator

RESET Air Indoor Air Quality (IAQ)

- Deployment plan
- Monitors phased in over time

Renovation

Smart Building Infrastructure

165,945 square feet

Project Team

AUROS Group
Duquesne University's
Sustainability MBA Thought
Leaders

Project Reference

Dr. Robert Sroufe
Murrin Chair of Global
Competitiveness,
Duquesne University
sroufer@duq.edu



243 East Main Street
Carnegie, PA 15106

beth.eckenrode@aurosgroup.com

www.aurosgroup.com