

AEG 2020 Q3 Stakeholder Challenge

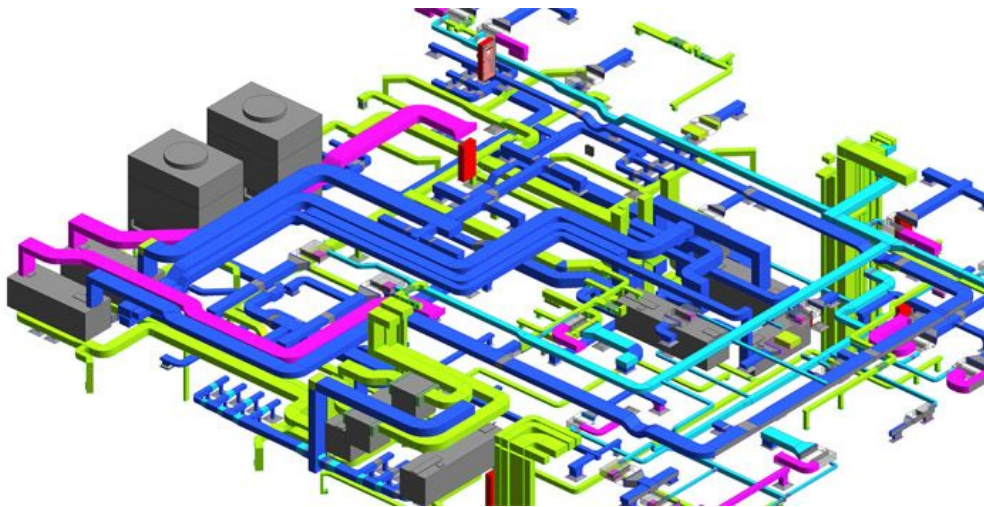
Facilities Management

Date: 07-22-2020




Northeastern
University

Buildings



- Energy intensive
- Sophisticated control systems
- Complex machines that require care by competent personnel
- The gift that keeps on taking

Achieving Carbon Neutral Boston by 2050

- Buildings new and old must operate efficiently and effectively
 - Lower MMBTU/GSF
 - There is a paucity of technicians with the knowledge to program and manage sophisticated building control systems
 - Diversity within the trades does not reflect that of the population
 - Slow progress
 - The jobs are still considered blue collar of trades at jobs at blue collar pay scales yet the skillsets needed rival those required of software developers paid at much higher levels
- Operating sequences  Use case scenarios



Benefits of Addressing Challenge



Economic
Environmental
Social

Consequences If Not of Addressed

- Unmet Climate Goal



- Lost Opportunity



- Social Unrest



Problem Statement

- To achieve Carbon Free Boston by 2050, regarding IoT, Tech & Innovation, the most critical obstacle to overcome is:

The lack of a talent pool qualified to manage building systems in a way that meets program needs and minimizes energy intensity
