

Advance Energy Group

Q3 BOSTON IOT, TECHNOLOGY & INNOVATION

July 23rd, 2020

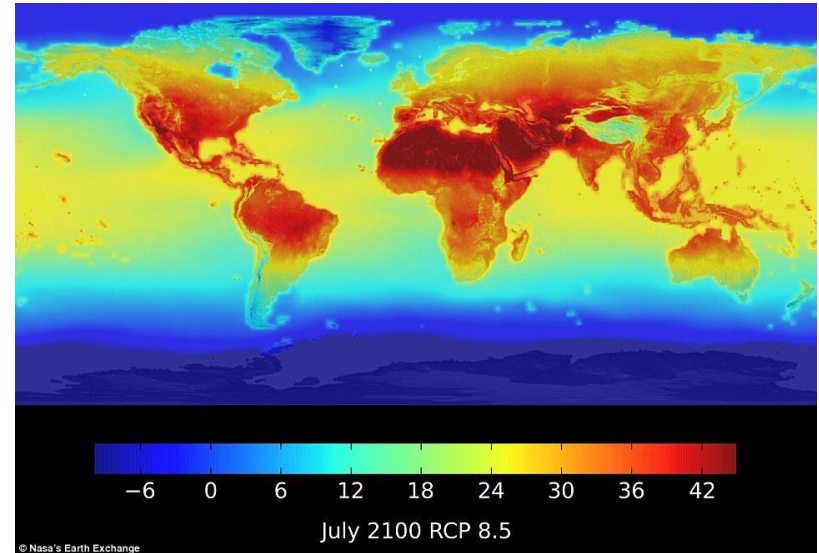


Background

It is widely acknowledged by the scientific community that we are rapidly approaching a climate mitigation “tipping point” fueled by Green House Gas (GHG) emissions from Power Plants, Buildings and Vehicles.

In order to avert a climate crisis of unimaginable consequences we must change the way we generate and consume energy by boldly embracing renewable energy, vehicle electrification and building energy efficiency.

According to the EPA, Buildings contribute up to 40% of GHG Emissions. To meet the challenge of climate change we need to increase the size and diversity of the workforce involved in implementing Building Energy



“A tipping point in the climate system is a threshold that, when exceeded, can lead to large changes in the state of the system. Potential tipping points have been identified in the physical climate system, in impacted ecosystems, and sometimes in both”. Wikipedia

Center for Smart Building Technology

The Center for Smart Building Technology at Roxbury Community College (RCC) was created to address the widening shortage of skilled workers needed by the facilities management industry to maintain today's high-performance buildings at peak efficiency.

The Center for Smart Building Technology offers both 2-year Associate degree programs and shorter Certificate Programs. It leverages an investment in state-of-the-art instructional equipment and dedicated classrooms to deliver a best in category instructional experience to students.

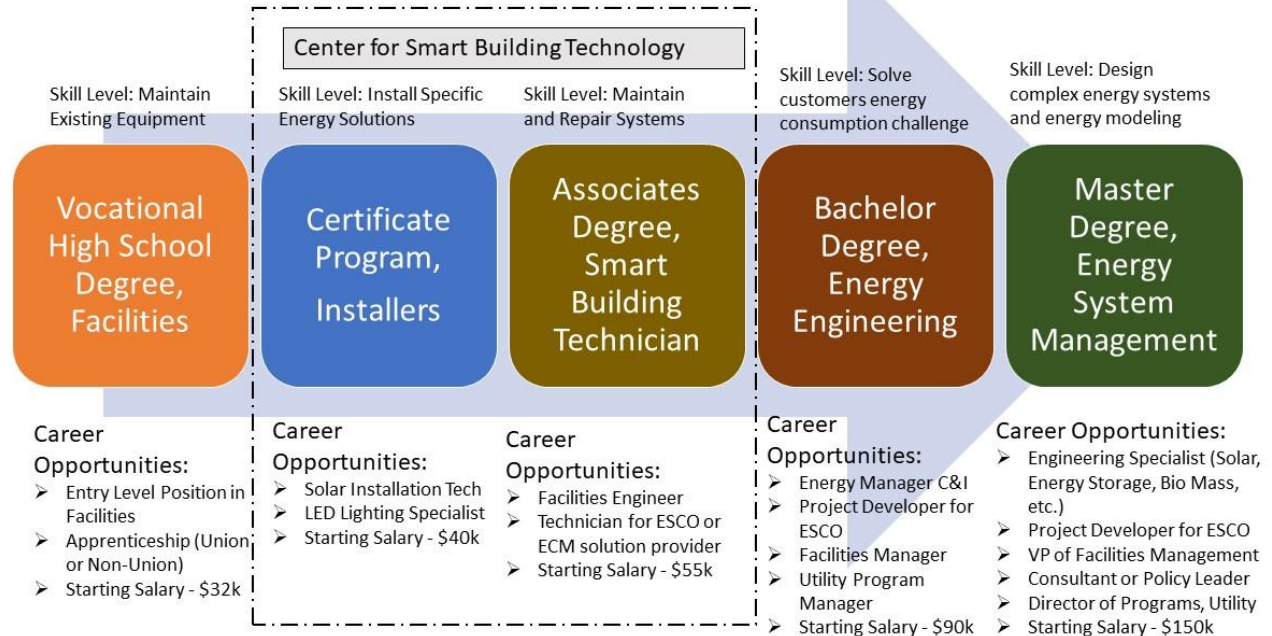
The Boston Globe reported employers anticipate needing to fill 34,000 building operations and maintenance positions by 2022.



New Occupational Ecosystem

Career Pathway – Energy Systems

The Center for Smart Building Technology's is focused on address the middle skills environment which represents the largest potential pool of new jobs.



The Challenge

To achieve a Carbon Free Boston by 2050, regarding IoT, Tech & Innovation, the most critical obstacle to overcome is **lack of an industry coalition** to address lack of funding and awareness to increase, diversify and upskill the local Clean Energy Workforce needed to decarbonize buildings.

