



BEYOND
SMART CITIES

LEARN.BEYONDSMARTCITIES.IN

WELCOME TO BEYOND MONITORING BASED COMMISSIONING - MBCX

ONLINE TRAINING

KRISHNAJI PAWAR - CEO & FOUNDER





BEYOND
SMART CITIES

BEYOND - MBCX

COMMISSIONING SPECIALIST CURRICULUM

KRISHNAJI PAWAR, CEO AND FOUNDER

01

Introduction and Course Outline

SECTION - INTRODUCTION





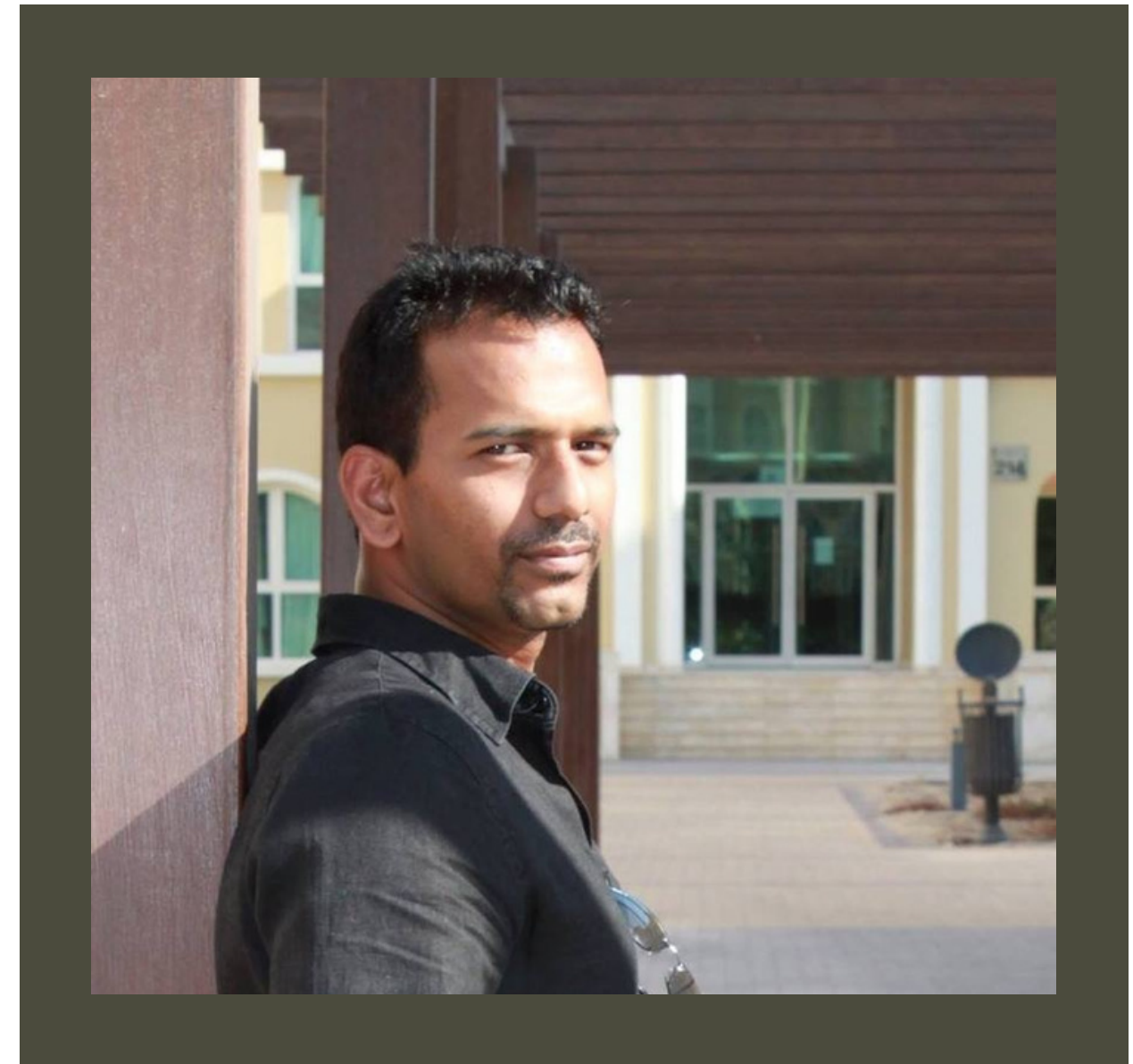
My Story

WHY I CREATED THIS COURSE

Krishnaji Pawar is the founder and CEO of Beyond Smart Cities, a sustainability and energy & Environmental Consultancy that specializes in developing sustainable design strategies for Green Building Certification Systems (LEED, GSAS). He is currently responsible for 3,767 million square feet Green Building /Energy modeling Consulting since 2007 in UAE, India and Qatar, and has been at Green Building Technology platform since 2007. He is known for his bold leadership and commitment to creating economic opportunities, and is committed to building a sustainable, high-performing business that delivers on that mission.

Krishnaji Pawar

WWW.KRISHNAJIPAWAR.IN



LEARN.BEYONDSMARTCITIES.IN



WELCOME TO OUR ONLINE COURSE

Monitoring-based commissioning, or MBCx, is the process of putting a building or energy system into service that is done over and over again. Utilising MBCx can be an effective method to sustain the performance of energy conservation measures (ECMs), keep energy costs low, and minimise system problems that may be caused by performance deterioration and changes to building operations over time. MBCx is implemented via software tools that compile and analyse real-time building energy system data, identify performance issues, assist with equipment commissioning, and optimise system operations.





Welcome to our Online Course +

- This Beyond Monitoring Based Commissioning - MBCx talks about how to add monitoring-based commissioning to energy performance contracts, such as energy savings performance contracts (ESPC) and utility energy service contracts (UESC). It talks about MBCx and how it can be used. It also talks about the benefits of MBCx at each stage of a project and how to integrate new and old MBCx systems into energy projects that are paid for with performance contracts.
- MBCx, which stands for "monitoring-based commissioning," is a process that uses automated data analytics to keep track of how well systems work over the life of a building. After a building has been commissioned or re-commissioned, a MBCx programme should be put in place. This makes sure that the building is working well enough to meet the current needs of the facility, and a baseline operation can be set.
- Then, the performance of these systems will be constantly checked and compared to the information given at the beginning. As soon as a building's performance starts to go downhill, this will be picked up by both qualitative and quantitative ways of assessing.

What you will learn in this Course

THE KEY TAKEAWAYS FOR THE COURSE

- ✓ Introduction and course description
- ✓ Learn Monitoring Based Commissioning - MBCx
- ✓ Understanding the Installation Phase of MBCx
- ✓ Monitoring-based commissioning and LEED Certification
- ✓ Understanding Implementation Phase MBCx
- ✓ How MBCx Contributes to Energy Efficiency



Course Outline

01

Introduction & Course Outline

This course explains the Monitoring-Based Commissioning (MBCx) process and associated owner benefits.

02

Monitoring-Based Commissioning - MBCx

Definition of Monitoring-Based Commissioning (MBCx) ,Scope and Purpose of MBCx and Phases of MBCx

03

MBCx Planning Phase

This section establishes the technical plan and scope for how monitoring-based commissioning will be implemented using either a new or previously installed EMIS.

04

Investigation Phase - MBCx

This section provides guidance on establishing reliable and accurate data streams for a new or previously installed EMIS to support an MBCx program.

05

Implementation Phase MBCx

This section describes key steps in the ongoing implementation of the MBCx Plan.

06

Reporting Phase - MBCx

“Monitoring-based commissioning (MBCx) combines building energy system monitoring with standard retro-commissioning (RCx) practices with the aim of providing ...

Course Outline +

07

MBCx for LEED Building Performance Optimization

Monitoring-Based Commissioning (MBCx) as a method for ensuring optimized performance of LEED buildings during the first year of operation...

08

Summary and Resources

MBCx uses technology to improve productivity and reduce risk. References and resources



VISION & MISSION

01. Vision

Beyond Smart Cities is the world's first marketplace for green technology. It connects millions of sustainability experts, green building experts, energy experts, commissioning experts, health and safety experts, fire safety experts, climate change experts, and green product and technology manufacturers with independent talent from all over the world.

"EDUCATING THE NATIONS AND THE FUTURE COMMISSIONING EXPERTS"

02. Mission

Our mission is to build and support a global community of experts with the highest standards of professional practice in sustainability, green building, energy, commissioning, the environment, health & safety, fire safety, climate change, GHG accounting, carbon auditing, and managing GHG emissions.

LEARN.BEYONDSMARTCITIES.IN

THANKS!
FOR WATCHING

PLEASE SUBSCRIBE

LEARN.BEYONDSMARTCITIES.IN