



MEASUREMENT AND VERIFICATION FUNDAMENTALS

ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S
TOP SPECIALISTS

ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE
03

What is M&V Process

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What is M&V

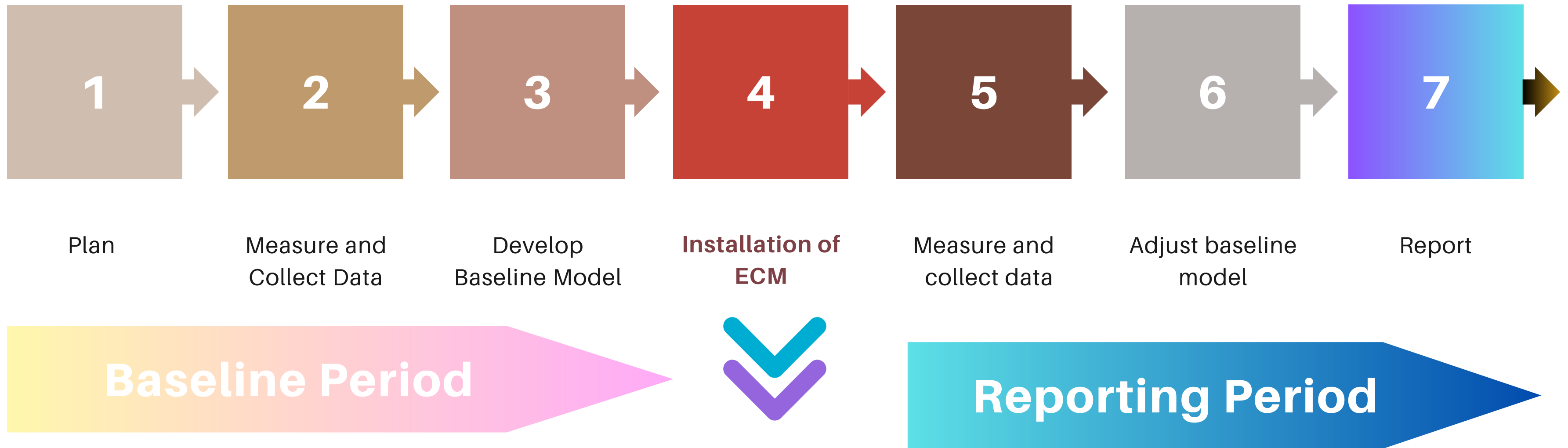
The M&V process consists of planning, measuring, collecting, and analysing data for the purposes of verifying and reporting energy savings within an individual facility, resulting from the implementation of Energy Conservation Measures (ECMs).



LEARNING OBJECTIVES

- ✓ What is M&V Process ?
- ✓ Measurement and verification processes
- ✓ Why are measurement and verification important?

M&V, STEP BY STEP



M&V ACTIVITIES CONSIST OF SOME OR ALL OF THE FOLLOWING:

01

Evaluating energy flows and sources of savings

02

Meter installation, calibration, and maintenance

03

Data gathering, storage, and quality control



M&V ACTIVITIES CONSIST OF SOME OR ALL OF THE FOLLOWING:

04

Development of a computation method & acceptable estimates; computations with measured data

05

Planning and verifying the completion of operational verification

06

Reporting, quality assurance, and third-party verification of reports



M&V PROCESS

01.

Step 1: Determine Goals for
M&V Efforts

02.

Step 2: Select IPMVP
Option(s) and Approaches

03.

Step 3: Document Baseline
Data

04.

Step 4: Develop M&V Plan

05.

Step 5: Set-up Metering and
Ongoing Data Collection
Processes

06.

Step 6: Monitor for Changes
in Site Conditions

M&V PROCESS

07.

Step 7: Confirm Operational
Verification

08.

Step 8: Ongoing Data
Collection

09.

Step 9: Determine Savings for
Period

10.

Step 10: M&V Report for
Period

11

Step 11: Track Energy
Performance and Savings

MBA

- LEADERSHIP
- POTENTIAL
- EDUCATION
- ACHIEVEMENT

DEFINITION AND PURPOSES OF M&V

"Measurement and Verification" (M&V) is the process of planning, measuring, collecting, and analyzing data to verify and report energy savings within a facility or facilities resulting from the implementation of EEMs or ECMs.

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***Why measurement and verification are
important***

WHY ARE MEASUREMENT AND VERIFICATION IMPORTANT?

1. Savings

M&V services reduce energy and financing costs. These services provide operational performance feedback, which helps owners and managers adjust their facility's operations for higher savings and lower costs. M&V methods applied to all projects, not just construction, give lenders confidence to finance. This helps us overcome red tape and bureaucracy!

2. Improves engineering and operations

Engineering design, facility operations, and maintenance all benefit from M&V. When problems related to these processes have been identified through M&V, companies benefit from quicker repairs and a more efficient facility overall.



WHY ARE MEASUREMENT AND VERIFICATION IMPORTANT?

3. Enhances the value of emission-reduction credits

By improving project efficiency and sustainability, emission-reduction credits add value. Energy efficiency investments can reduce harmful emissions by documenting emissions reductions from reduced energy consumption.



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THANK YOU

