

BEYOND

SMART CITIES





COMMISSIONING & GREEN BUILDINGS

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COMMISSIONING & LEED BUILDINGS

What is Commissioning (Cx)?

Commissioning History

Definitions of Commissioning

Commissioning - LEED Perspective



DEFINITIONS OF COMMISSIONING

QUALITY ASSURANCE PROGRAMME



"The Commissioning Process is a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria."

ASHRAE Guideline 0

"...a systematic, documented, and collaborative process including inspection, testing, and training."

"...conducted to confirm that a building and its component system meet the requirements of the occupants and conform to the design intent."

"...a quality assurance procedure applied to building construction throughout the entire project..."



LEED SCORECARD V.4.1
ENERGY & ATMOSPHERE

LEED Scorecard Gold 0/110

INTEGRATIVE PROCESS	0/1
LOCATION AND TRANSPORTATION	0/16
SUSTAINABLE SITES	0/10
WATER EFFICIENCY	0/11
ENERGY & ATMOSPHERE	0/18
Materials & Resources	0/14

EA1 - Fundamental Commissioning and Verification 0/04

EA2 - Minimum Energy Performance 0/04

EA3 - Building-Level Energy Modeling 0/04

EA4 - Fundamental Refrigerant Management 0/04

EA5 - Optimize Energy Performance 0/18

EA6 - Enhanced Commissioning 0/6

EA7 - Advanced Energy Modeling 0/1

EA8 - Renewable Energy 0/8

EA9 - Enhanced Refrigerant Management 0/1

EA10 - Grid Harmonization 0/2

LEED AND COMMISSIONING

LEED's Perspective:

- Commissioning is so critical that it is required.

Fundamental Commissioning and Verification -Pre-Requisite

Enhanced Commissioning - Possible 6 Points



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Thank You

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