





Module 4: Commissioning

Managing Performance through Commissioning

Introduction

The current 2017 DC Energy Code is based on ASHRAE 90.1-2013, Chapter 7 of ASHRAE 189.1 and Appendix G of ASHRAE 90.1-2016, with additional modifications. The energy code was developed over the course of 2015-2016 with the intent of adoption in 2017, three years after the previous code cycle. Unfortunately, adoption was delayed until 2020. The energy code is a good foundation for BEPS compliance, but just meeting the code is not a good plan for long term compliance. Building Owners should <u>consider above-code performance goals</u> and how to optimize performance over the lifespan of their asset.

Fortunately, both the Green Building Act, which requires LEED Certification, and the 2017 DC Energy Code, have inherent commissioning requirements built in. Commissioning (often abbreviated as Cx) is a critical process in which follows the processes laid out in the table below. For a detailed guide to DC commissioning, download the Hub's <u>Building Commissioning Guidelines for the 2017 District of Columbia Energy Conservation Code–Commercial Provisions</u>.

LEED Monito
in DD, dolor dolor cxA defines/c requirements; building repai
in DD, CxA confirms tracked, frequ
CxA defines li metered value CxA develops for repairs nee CxA develops operational er
CxA verifies fr (at least quart
tions cupancy tions cupancy to compare performance



itoring-Based Cx

s/confirms monitoring metering and trending ts; roles & responsibilities for data reviews, training, pair and maintenance

ns measurement requirements and points to be quency and duration for trend monitoring

s limits of acceptable values for tracked points and lues, confirms elements used to evaluate performance ops detailed training to prevent O&M errors, planning needed to maintain performance ops action plan for identifying and correcting errors and deficiencies

s frequency of data analysis for first year of occupancy arterly)

s site or reviews data remotely at least 1x per quarter performance outcomes to modeled/expected e and support fine-tuning