

## **Guideline 45P**

**TITLE:** Measurement of Whole Building Performance for Occupied Buildings except Low-Rise Residential Buildings

### **1. PURPOSE:**

The purpose of this document is to provide guidelines for reliably measuring whole building performance pertaining to occupied buildings, except low-rise residential buildings.

### **2. SCOPE:**

This document provides procedures for measuring whole building performance pertaining to all occupied buildings except low-rise residential buildings, including: energy, water and indoor environmental quality (IEQ).

#### **2.1. What Is Included.** The procedures include:

- a. IEQ (thermal comfort, indoor air quality, lighting, and acoustics);
- b. energy, water, and on-site renewables;
- c. occupant behaviors;
- d. metrics, measurement methods (including data integrity), and benchmarking/evaluation methods;
- e. multiple levels of measurements (accuracy/complexity); and
- f. all types of occupied buildings except low-rise residential buildings.

#### **2.2 What Is not Included.** The procedures do not include:

- a. carbon metrics;
- b. rating methods; or
- c. quantitative measurement cost.