ANSI/ASHRAE/IES Standard 90.1-2016: Overview

March 2017
New Buildings Institute (NBI)

NBI is redefining energy efficiency in the built environment.

Program Areas:

- Best practices in new and existing buildings
- Continuous code and policy innovation
- Zero energy leadership and market development
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Structure of Standard 90.1-2016

- 1 Purpose
- 2 Scope
- 3 Definitions, Abbreviations, and Acronyms
- 4 Administration and Enforcement
- 5 Building Envelope
- 6 Heating, Ventilating, and Air Conditioning
- 7 Service Water Heating
- 8 Power
- 9 Lighting
- 10 Other Equipment
- 11 Energy Cost Budget Method
- 12 Normative References
- Normative Appendices A-H
Section 2 – Scope
2.1 – 2.4

• Applies to:
  – New buildings and their systems
  – New portions of buildings and their systems
  – New systems and equipment in existing buildings, and
  – New equipment or building systems specifically identified in the standard that are part of industrial or manufacturing processes
  – Criteria for determining compliance with requirements

• Does not apply to:
  – Single-family houses, low-rise multi-family ≤ 3 stories above grade, manufactured houses (mobile or modular)
  – Buildings that use neither electricity nor fossil fuel

• Certain other buildings or elements may be exempt
• Does not circumvent any safety, health, or environmental requirements
Compliance Paths for 2016

1. Prescriptive
2. Energy Cost Budget
3. Appendix G (New)

4.2 Compliance
4.2.1 Compliance Paths
4.2.1.1 New Buildings

New buildings shall comply with either the provisions of
a. Section 5, “Building Envelope”; Section 6, Heating, Ventilating, and Air Conditioning”; Section 7, Service Water Heating; Section 8, “Power”; Section 9, “Lighting”; and Section 10, “Other Equipment,” or
b. Section 11, “Energy Cost Budget Method,” or
c. Appendix G, “Performance Rating Method.”