§ 433.6

Percentage improvement = \(100 \times \frac{(\text{Baseline building consumption} - \text{Receptacle and process loads}) - (\text{Proposed building consumption} - \text{Receptacle and process loads})}{(\text{Baseline building consumption} - \text{Receptacle and process loads})}\) (which simplifies as follows):

\[
\text{Percentage improvement} = 100 \times \frac{(\text{Baseline building consumption} - \text{Proposed building consumption})}{(\text{Baseline building consumption} - \text{Receptacle and process loads})}.
\]

(b) Each Federal agency shall consider laboratory fume hoods and kitchen ventilation systems as part of the ASHRAE-covered HVAC loads subject to the 30 percent savings requirements, rather than as process loads.


§ 433.6 Sustainable principles for siting, design and construction. [Reserved]

§ 433.7 Water used to achieve energy efficiency. [Reserved]

§ 433.8 Life-cycle costing.

Each Federal agency shall determine life-cycle cost-effectiveness by using the procedures set out in subpart A of part 436. A Federal agency may choose to use any of four methods, including lower life-cycle costs, positive net savings, savings-to-investment ratio that is estimated to be greater than one, and an adjusted internal rate of return that is estimated to be greater than the discount rate as listed in OMB Circular Number A-94 “Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.”

PART 434—ENERGY CODE FOR NEW FEDERAL COMMERCIAL AND MULTI-FAMILY HIGH RISE RESIDENTIAL BUILDINGS

Sec.
434.99 Explanation of numbering system for codes.

Subpart A—Administration and Enforcement—General

434.100 Purpose.
434.101 Scope.
434.102 Compliance.

434.103 Referenced standards (RS).
434.105 Materials and equipment.

Subpart B—Definitions

434.201 Definitions.

Subpart C—Design Conditions

434.301 Design criteria.

Subpart D—Building Design Requirements—Electric Systems and Equipment

434.401 Electrical power and lighting systems.
434.402 Building envelope assemblies and materials.
434.403 Building mechanical systems and equipment.
434.404 Building service systems and equipment.

Subpart E—Building Energy Cost Compliance Alternative

434.501 General.
434.502 Determination of the annual energy cost budget.
434.503 Prototype building procedure.
434.504 Use of the prototype building to determine the energy cost budget.
434.505 Reference building method.
434.506 Use of the reference building to determine the energy cost budget.
434.507 Calculation procedure and simulation tool.
434.508 Determination of the design energy consumption and design energy cost.
434.509 Compliance.
434.510 Standard calculation procedure.
434.511 Orientation and shape.
434.512 Internal loads.
434.513 Occupancy.
434.514 Lighting.
434.515 Receptacles.
434.516 Building exterior envelope.
434.517 HVAC systems and equipment.
434.518 Service water heating.
434.519 Controls.
434.520 Speculative buildings.
434.521 The simulation tool.

Subpart F—Building Energy Compliance Alternative

434.601 General.
434.602 Determination of the annual energy budget.
434.603 Determination of the design energy use.
434.604 Compliance.
434.605 Standard calculation procedure.
434.606 Simulation tool.
434.607 Life cycle cost analysis criteria.