

RECD1-9-22

IECC: SECTION 202 (New), R408.2.10 (New)

Proponents: John Hensley, representing IECC RE HVACR & water heating subcommittee

2024 International Energy Conservation Code [RE Project]

Add new definition as follows:

THERMAL ENERGY STORAGE HEATING SYSTEM. A non-portable heating system, with a nameplate capacity of not less than 5 kWh, that adds heat to a storage medium which is subsequently used to provide energy for the heating of the interior of a building. The heat storage medium consists of a phase change or solid storage material.

Add new text as follows:

R408.2.10 Thermal energy storage heating system. Thermal energy storage heating system shall be permitted for compliance with R403.7.1 if the product is part of a utility demand response program or in a contract with third party demand response provider of not less than 5 years.

Reason: The definition of thermal energy storage is aligned with the US tax code for incentives through investment tax credits (26 U.S. Code § 48). These definitions are necessary to ensure that code compliance paths include thermal storage technology, which has been identified as a national priority by Congress. The minimum size of 5kW ensures that the system will keep home energy use off peak, which is the primary purpose and function of the devices.

Cost Impact: The code change proposal will neither increase nor decrease the cost of construction. This proposal adds no substantive requirements and, thus, does not add to the cost of construction.