

# REPI-138-21

IECC®: R408.2.3

**Proponents:**

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## 2021 International Energy Conservation Code

**Revise as follows:**

R408.2.3 (N1108.2.3) Reduced energy use in service water-heating option.

The hot water system shall meet one of the following efficiencies:

1. Greater than or equal to 0.82 UEF ~~EF~~ fossil fuel service water-heating system.
2. Greater than or equal to 2.0 UEF ~~EF~~ electric service water-heating system.
3. Greater than or equal to 0.4 solar fraction solar water-heating system.

**Reason Statement:**

This proposal updates the water heating efficiency units from EF to UEF as they are now the common units for water heating efficiency.

**Bibliography:**

10 CFR 430.32 Energy and water conservation standards and their compliance dates. <https://www.ecfr.gov/current/title-10/chapter-II/subchapter-D/part-430/subpart-C/section-430.32>

**Cost Impact:**

The code change proposal will neither increase nor decrease the cost of construction.

The existing code refers to outdated water efficiency units. Federal energy conservation standards for water heating equipment uses the UEF unit. Updating R408.2.3 to use the UEF will not affect the cost of construction since water heating equipment on the market do not use the older EF unit.

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