

CE2-19

IECC: Section C101.3

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2018 International Energy Conservation Code

Revise as follows:

C101.3 Intent. This code shall regulate the design and construction of buildings for the effective use and conservation of energy over the useful life of each building. The shift of a load from on-peak period to off-peak shall be considered a part of the effective use of energy. This code is intended to provide flexibility to permit the use of innovative approaches and techniques to achieve this objective. This code is not intended to abridge safety, health or environmental requirements contained in other applicable codes or ordinances.

Reason: The conservation of energy and its related cost are the foundation of the IECC. Since the cost of energy is time dependent, it makes sense to include the shift of a load from *on-peak* (most expensive per kw) to *off peak* (least expensive) as a part of the effective use of energy. The definitions for *load*, *on-peak* and *off peak* are included in another code change proposal. Those proposed definitions are as follows:

- **LOAD** A portion of a system that consumes electric energy. The total electrical *load* of a building is the sum of all electricity consuming appliances, lights and systems, necessary for a building to function as designed.
- **ON-PEAK** The time of use during which the cost per kiloWatt-hour (kWh) is the highest and when the maximum generation resources are required to supply electricity to the customer.
- **OFF-PEAK** The time of use during which the cost per kiloWatt-hour (kWh) is the lowest and when generation resources are being underutilized.

The terms are found defined in on-line sources. These could be added to the proposal, if needed, at public comment stage.

Cost Impact: The code change proposal will not increase or decrease the cost of construction. This code change clarifies that load shifting is a part of the efficient use of energy and does not increase or decrease the cost of construction.

Proposal # 5002

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