



ANSI Energy Efficiency Standardization Coordination Collaborative (EESCC)

Working Group 3: Energy Modeling, Rating, and Labeling

Inaugural Plenary Status Report

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ANSI EESCC WG3



Chair

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ANSI EESCC WG3 - Scope



Scope

- Building energy modeling, rating, and labeling
(encompasses whole building modeling from design to construction, and rating and labeling for energy performance)

Sub-Issues

- WG3 has identified the need for having a modeling task group and a rating and labeling task group

ANSI EESCC WG3 - Structure



WG3 identified two sets of initial considerations (shown on next slides) to be addressed. These will be further refined as discussions continue and the inventory is populated:

- Modeling Considerations
- Rating and Labeling Considerations

ANSI EESCC WG3 - Structure Modeling



Modeling scope encompasses:

1. Whole-building modeling in general, from design to construction
2. Modeling as it relates to rating and labeling systems

Modeling Issue Areas Identified

- Asset rating (modeling with standardized fixed, prescribed operations)
- Design modeling (modeling with custom operations)
- Calibrated modeling (post-occupancy models that reflect buildings as they are actually used; modeling approaches for M&V processes)
- Algorithm validation
- **Possible consideration:** Standards that relate modeling to other pieces of software

ANSI EESCC WG3 - Structure Rating and Labeling



Rating and Labeling Issue Areas Identified

- Operational rating
- Asset rating
- Hybrid (operational and asset rating)
- Suggested issue area: Rating methodology
 - What type of rating is it? (i.e., internal as compared to self or compared to other similar sites; simulation-type ratings; external comparison)
 - Simulation or regression-based statistical model?
- Suggested issue area: Existing and new construction

ANSI EESCC WG3 -Structure Rating and Labeling (cont'd)



Questions to be considered for the issue areas:

- What is the methodology that is used?
- What is process used to benchmark? What are the procedures in place to verify performance/ for awarding a label?
- What is the purpose/objective of the program (i.e., related to operational management, real-estate, etc.)?

- What are the eligibility requirements? (Rating)
- What is considered to be "performance?" How is performance defined? What criteria are being used to award a label?

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- What is the scope of the program, including the building type it is related to?

- Validation/verification
 - Who are the people involved? Do assessors need to be certified?
 - What are the drivers (energy, environmental, economic)?
 - What is the cost-effectiveness/what are the cost factors involved?
 - What is the process for going through an evaluation process?
- What are the evaluation criteria?
- Frequency of re-issuance? (What is the suggested re-certification timeframe? Is there an expiration date?)



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