



DRAFT WG REPORT OUTLINE – TARGET 12 PAGES

Intro

- Background and relevance to net-zero energy buildings
- Broad opportunities and barriers
- 1. Performance measurement**
 - In design
 - o Energy modeling
 - In operation
 - o Benchmarking
 - o Metrics & metering
 - Peak vs. non-peak, whole building vs. system, etc.

2. Performance rating, labeling & disclosure

- Impact on markets
- Policy
 - o U.S. policies
 - o International best practices
 - o Leveraging ratings in finance, appraisal & code compliance
- Label components
- Infrastructure

3. Performance Assurance

- Energy audits and commissioning & RCx
 - o Rater infrastructure
- Property & facility management
- Continuous feedback/monitoring & verification (benchmarking here also)
- Retrofit potential

Summary

- Integrating measurement, labeling & assurance (need to break down boundaries)
- Summary list of recommendations to DOE (bullet list from the sections above)

Possible Appendix (not part of the page limit)

- “bike rack” Items that need to be picked up at a later time or need expansion outside of the core report
- References and Resources

The outline above is a **draft** of potential section headings to address the key topics for this Working Group. WG members can propose alternative outlines by May 1st. Each section would cover:

1. **Define the topic area** and say why it is important on the path to zero energy buildings.

2. Assessment of the current **state of the art** of the topic area (e.g. benchmarking) related to low-energy/net zero buildings pathway. This does not (can not) need to describe all actors involved or all approaches to the topic; but should include: major critical trends (in the U.S.), some specific examples of exemplary actions or best practices, and key activities underway/major market actors.
3. **Gaps and Barriers** What are the barriers, analysis gaps, information gaps, policy issues, etc. that negatively impact the ability of the state of art from advancing a) in terms of development and b) in terms of scaling up and spread across the country.
4. **Recommendations for Action** What are the key activities that the U.S. DOE (primarily) should focus on to advance the topic area? How can DOE better support the market trends, advance practices, and accelerate the resources needed? What non-DOE actions are needed – either higher level such as national legislation, or lower level such as state policy or specific market actor?