Preliminary Acceptance Criteria for M&V2.0 Results



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Proposed uncertainty and confidence targets

• Propose [80, 20 or 30] as starting point for M&V2.0 multi-building aggregate-level results to be taken as accurate enough

- Reasoning:
 - Criteria for deemed values, unknown, provide no guidance
 - Exceeds ASHRAE guidance, which is too low for EE program context
 - Provides more information than standard model error, fitness metrics
 - In same range as current BPA considerations



Implications of proposed targets

- Aggregate, program [80, 20 or 30]: we are 80% certain that true amount of savings is within ~25% of the estimated savings could have saved ~25% more, or ~25% less
- Could satisfy a *portfolio*-level 80-20 result
 - If a couple of programs dominate the savings (Btu), and they meet 80-20, the portfolio is *likely to* meet 80-20
 - If program savings are more evenly distributed and meet 80-20, the portfolio will *exceed* 80-20
- Allows for site level and program uncertainties to be higher or lower, as is realistic to expect
- Based on limited empirical analyses, this is achievable pilots can provide more evidence



Attributing the whole-building gross savings to the installed measures

- Implementer must define a process to monitor projects to identify occurrence of events
- Adjustments to savings must be transparently documented
- IPMVP and ISO 50015 addresses this at high level
- With a large enough program/pilot size, do these events 'cancel out'?



Proposed guidance for documenting non-routine adjustments

- Include a short description of potential non-routine adjustments, given program design and included measures
- Describe process used to monitor for non-routine events
 - Include measured or reported/surveyed data that was tracked, and frequency of data collection
- Describe how energy impacts of non-routine events were quantified
 - Include supporting calculations, and threshold for magnitude of events/impacts that were considered
- Enable third party replication of the need for, and size of the adjustment



{Let's Discuss! What makes a great discussion? * talking to each other * use each other's names * listen to each other * look at the person * respond to each other nicely * share your ideas * disagree in a polite way * take turns * Connecting ideas

