

# Minimum Data Requirements for a Workpaper



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# Overview

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- Observation: Insufficient data common reason for rejecting WP
- Question: What should minimum data requirements be?
  - CA Requirements: ???
  - NW RTF Requirements
  - Discussion list (R. Mowris)(modified)
- Should minimum data requirements be memorialized to ensure common standards/approach for all new WP?

- Roadmap for Assessment of EE Measures (2015)
- Measure Assessment Template
- Standard for UES Measures:
  - “For UES measures, the RTF approves the method for estimating savings and the savings values for each measure application.” Roadmap, p. 6.
- Lower standard for “Small Savers”:
  - “The RTF may determine that the regional technical potential savings from a measure are too small to warrant the resources needed to meet the quality standards defined for Planning, Provisional or Proven measures.” Roadmap p. 7.
- Considerable discretion granted to RTF

# Discussion List

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- 1) Unit energy consumption (UEC) data to determine appropriate baselines
  - Required sample size?
- 2) Scientific descriptions of how the measures save energy
- 3) Equations including key variables that impact savings
- 4) Range of savings estimates, and which variables most impactful
  - Uncertainty of savings
- 6) Laboratory or field measurements to support the savings estimates
  - How many data points are enough?
- 7) Retention studies to calculate the effective useful life (EUL)
- 8) Variables that impact the effective useful life (EUL)
- 9) Customer surveys to calculate the net to gross ratio (NTGR)
- 10) Market study to identify market barriers (to guide decisions about market intervention strategy and incentive levels)
- 11) Market survey of measure costs?

# Next Steps

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- Small group feedback and discussion questions
  - What parameters should be supported by data? (lab or field?)
  - Minimum sample size for data collection?
    - ✦ Depends on magnitude of variability, but . . .
  - How to operationalize CPUC directive to “*Not let perfect be enemy of good . . .*”
  - Role of early/developmental EM&V
  - Should all new measures be granted “provisional” status, with requirement to update key parameters after one year based on actual field data collection?