

Energy Data Transparency: How We Can Reduce Discrepancy, Understand the Consequences, and Improve Data Quality



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*Moderated by Tom Leckey
Assistant Administrator for Energy Statistics, U.S. Energy Information Administration*

Critical Qualities of Statistical Information

- Reliability
 - Does the instrument, or question, produce similar results under consistent conditions?
 - Do all the respondents understand the question in the same way?
- Validity
 - Does the concept or item being captured correspond to real world conditions?
 - Do data collectors and respondents agree on what is being captured by the question

What Actions Help to Ensure Reliability and Validity?

- Reliability
 - Instructions
 - Help features
 - Training for collection staff
 - Orientation for respondents
 - Uniform methods
- Validity
 - Cognitive testing
 - Testing for logical consistency
 - Data integration and balancing

EIA monitors issues of Reliability and Validity, and takes corrective action when needed

- North American Energy-Trilateral Commission
- Quality differences arising from voluntary and non-voluntary submissions
- Uniformity in converting units