

ISO Standards Update

Jim Jetter



ISO (International Organization for Standardization)

TC (Technical Committee) 285

Clean Cookstoves and Clean Cooking Solutions

- Working Group 1 – Conceptual Framework
- Working Group 2 – Laboratory Testing
- Working Group 3 – Field Testing
- Working Group 4 – Social Impact Assessment
- Task Group 1 – Communications
- Task Group 2 – Fuels
- Task Group 3 – Title and Scope



TC 285 Working Groups

- **WG 1 – Conceptual Framework**

Tami Bond, Convenor; Philip Lloyd, Project Leader (Terms & Definitions)

- Stakeholder survey, **completed**
- Terms & definitions, **DTR** (draft technical report)
- Conceptual Framework, **PWI** (preliminary work item)

- **WG 2 – Laboratory Testing**

Richard Ebong, Convenor; Jim Jetter, Project Leader (Parts 1 and 3)

- Part 1, Standard test sequence, emissions, efficiency, safety, and durability
DIS (draft international standard)
- Part 2, Contextual test sequence, **PWI**
- Part 3, Voluntary performance targets, **DTR**

TC 285 Working Groups

- **WG 3 – Field Testing**

Convenor: Ryan Thompson

- Guidance on field testing methods

- CD (committee draft)

- **WG 4 – Social Impact Assessment**

- Guidance on social impact assessment

- WD (working draft)

ISO Lab and Field Testing Protocols

- **Based on**
 - Best practices from existing protocols
 - Knowledge/experience of Working Group experts
 - Methodology in related sectors
- **Trade-offs**
 - Cost
 - Reflection of actual use
 - Statistical power



Cookstove Testing

Laboratory Testing



Photo credit: Agnes Naluwagga, CREEC (Centre for Research in Energy and Energy Conservation)

Field Testing



Photo credit: Michael Johnson, Berkeley Air Monitoring Group

Cookstove Testing

Laboratory Testing

- Lower cost
(\$1,000 to \$8,000)
- More control of variables
- Less variable results
- Stationary equipment
- Less reflective of use

Field Testing

- Higher cost
(\$10,000 to >\$100,000)
- Less control of variables
- More variable results
- Portable equipment
- More reflective of use

Driving Technology Improvement

Laboratory and field testing provides information and incentives for:

- Technology developers
- Manufacturers
- Distributors
- Consumers
- Governments and regulators
- Research institutes
- Donors



Relevance for Stakeholders

- Greater alignment in laboratory methodology and metrics around the world
- Adaptation of methodology and metrics to the wide variety of cookstoves, fuels, and cooking practices
- Stakeholders may:
 - Adopt the standard or portions of the standard
 - Adapt the standard to meet needs
 - Participate in further development of the standard