



# Household Energy & Clean Air

Promoting Clean and Efficient Cooking & Heating in the Developing World



# Pathways to Clean Cooking

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What we do depends on our priorities –  
but which priorities provide traction?

- Health
- Local Environment
- Global Environment
- Gender
- Poverty
- Profits

# Everyone Stacks, so .....

What are the implications? What should we do?

- Make the popular clean; or Make the clean popular? Do both? Do something different?
- Focus on clean fuels primarily / biomass primarily
- Try to be all things to all people or focus narrowly?

Is it all about Commercialization? And, what do we do in places where selling stoves is nigh impossible?

- Displaced people camps
- Extreme poverty
- Extremely rural or isolated areas

# Importance of Rigorous Monitoring and Evaluation – in Laboratory and in the Field

**Our monitoring and evaluation goals are often in opposition to each other, even though they are all important:**

- reflect typical usage conditions and impacts
- yield repeatable, accurate results
- reflect the relative performance of different designs
- cover a wide range of models within a category
- easy comparability with results from other test procedures
- be inexpensive to perform
- completed and ready to use in the market

## **Standards and Labeling Guidebook,**

### **CLASP**

Any energy test procedure is a compromise; it does not fully meet any of the criteria for an ideal test, but it satisfies enough of them to discourage excessive complaints

# How to Get Governments Fully Engaged

- Health of cooks and their families?
- Contribution of household energy emissions to ambient air pollution?
- Productivity of country?
- Protecting local and global environment?
- Carbon Financing?

And when engaged... What do we (really) want them to do?

- Public information campaigns?
- Research & Development?
- Subsidies / Financing / Infrastructure?
- Certification / Labelling?

# Three Take-away Points

- Implications of “Everyone Stacks”
- Continued Importance of Instrument-based Monitoring and Evaluation in the Lab and the Field
- Encouraging a step-wise approach to all we do:
  - Biomass fuel on pathway to clean cooking – supported by ISO TC-285 Tiers of Performance ;
  - Governments start small, see what is effective, scale;
  - All – doing effective small scale pilot studies first – and evaluate effectiveness to avoid large scale failures

