



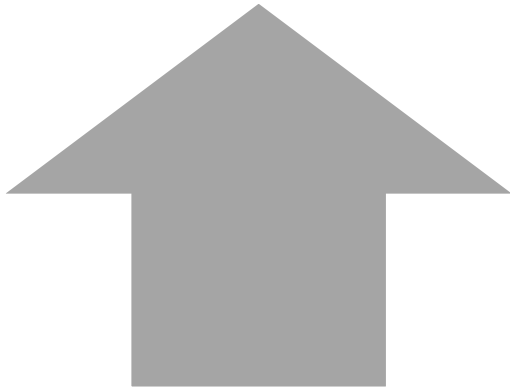
How to Improve 'Adoption' of 'Clean' Cooking Technologies to Achieve Health Benefits in Real Term?

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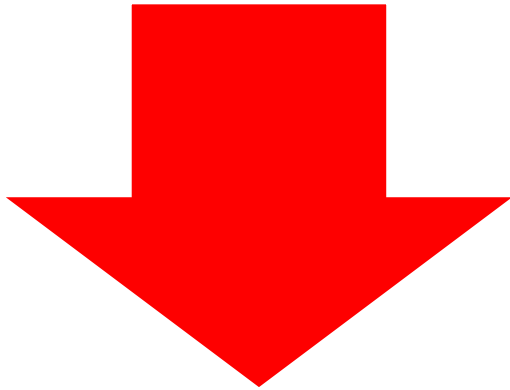
Samuchit Enviro Tech

India

The Reality Challenge for Clean Cooking



Perception: High ownership achieved for a clean cooking technology ☐ 100% adoption ☐ HAP problem solved!



Reality: Stove stacking needed to meet all usage requirements ☐ Limited or no adoption of clean technology ☐ HAP problem continues!

Perception is used to withdraw R&D, awareness raising, dissemination funding and effort from the sector
Millions of households locked into using polluting cooking energy devices due to lack of options available

Samuchit Intervention Approach



- **Cooking Time:** Boiling, Roasting, Frying performance
- **Convenience:** Abilities to modulate heat input to cooking pot, cook multiple items simultaneously, deliver non-cooking thermal energy services
- **Economics:** OpEx, CapEx, Possible earning from use
- **Safety: Emissions,** Stability, Temperature of outer body
- **Fuel/Energy Source:** Multi-fuel or not, Availability of fuel/energy source locally, Fuel processing required by user or not
- **Usage Factors: Efficiency,** Durability, Service support

~ 80% HHs exhibit Adoption!

We need **CLEAN & ADOPTABLE** Cooking Energy Technologies!



CLEAN

Universal

Quantifiable

Standards,
Protocols
exist

ADOPTABLE

Subjective

Qualitative

No
Standards,
Protocols



A Pathway Explored

- A labelling scheme developed for solid biomass cookstoves
– CLEAN & ADOPTABLE
- Funder & Owner: Clean Energy Access Network, India
- Developed by: Samuchit Enviro Tech & WEFT Research LLP
- Still work in progress...
 - Field testing to be conducted

CLEAN Solid Biomass Cookstove Label



Star Rating (Required)

- based on multiple criteria around energy efficiency, emissions performance, safety (from ISO standard) **and user-friendliness (from Preference Mapping Tool)** – quantified and combined

Performance Related Information (Required)

- Useful for decision making on the basis of **user's personal priorities**

Legally Mandated Information (Necessary)

- Useful for all types of buyers
- Legal compliance requirements fulfilled

'Good to Provide' Information (Useful accessory)

- Additional information regarding use, maintenance, precautions etc.

Vision of a Cooking Energy System Label



**Legally Required
Information**

**Performance
Related
Information**

User Manual with 'Good to Know' Information



In Summary...

Adoption of 'clean' cooking energy devices is the key to health benefits delivered.

Cooking Energy Devices should be labeled on the basis of 'clean'liness of performance AND usage features possessed.

Users/buyers will be able to determine which 'clean' device is best suited to their 'service' requirements, leading to greater adoption.

Thank You!

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