

Lessons Learned from Scaling Cookstove Interventions

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Monika Rammelt

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Programme for Poverty-Oriented Basic Energy Services (HERA)



Lesson No. 1

People select cooking energy on demand – fuel and stove stacking instead of gradually climbing up the energy ladder

- Biomass remains the main energy source for rural and low income HHs as much as woodfuel and charcoal stoves remain necessary and can be a viable solution
- Users aspire cookstoves with the following features
 - Convenience and adaptation according to prevalent cooking habits
 - Efficiency (saving time and resources)
 - Attractive design
 - Affordability
 - Access to after-sales-service (repair and replacements)



Lesson No. 2

Sustainable introduction of cookstoves is only possible through the creation of a dynamic market

- Supporting market creation on different levels of intervention – advice to national policy makers on supportive framework conditions, enabling the (local) private sector, empowerment of customers
- Development of commercial value chains and self-perpetuating market structures
- Focus on setting up viable businesses in the target countries, support for in-country production, enhancement of local markets has many socio-economic benefits
- Development of suitable financial support and business development mechanisms for small-scale local producers and distributors remains a challenge – ability of smallholder production facilities to absorb grants or apply for loanproducts



Lesson No. 3

Monitoring, quality control and after-sales support are crucial for ensuring sustainability

- Development of quality standards and independent control mechanisms
- Monitoring has to cover more than merely counting stoves....
 - Penetration rate
 - Usage
 - Maintenance and condition of stove
 - Replacement
- ...and allow for learning cycles – adaptation of implementation strategy



Lesson No. 4

Changing cooking patterns requires more than marketing the new stove

- Clean cooking is a function of four elements. Sustainable project interventions have to tackle all four of these:
 1. fuel,
 2. stove,
 3. ventilation,
 4. user behavior
- Workload, smoke, depleting natural resources may not be seen as primary problems in low income households. **Constant and long-term awareness raising is needed.**
- Cooking habits vary from region to region and require tailor-made products: there is no one-fits-all stove. **Research and technology adaptation is necessary.**



Lesson No. 5

A global programme permits efficient up-scaling

- Cross country exchange of experience allows for accelerated improvements of concepts
- Performance-based allocation of funds among country interventions – creates productive competition
- High cost effectiveness, reduction of transaction costs
- Programme costs for providing access to improved cookstoves under Energising Development (EnDev): <5 EUR/person



Further reading

Multiple household fuel use – a balanced choice between firewood, charcoal and LPG

https://energypedia.info/images/3/32/2014-03_Multiple_Household_Cooking_Fuels_GIZ_HERA_eng.pdf

Cookstove market sustainability assessment framework

https://energypedia.info/images/d/d8/HERA_Sustainability_Assessment_Framework_2014.pdf

Wood Energy: Renewable, profitable, and modern

Available in English: https://energypedia.info/images/1/1d/2014-03_Wood_Energy_renewable_modern_profitable_GIZ_HERA_eng.pdf

And in French: https://energypedia.info/images/1/18/GTZ_2010_Boie_energie_Cribsheets-wood_energy_72.pdf

Micro-gasification: Cooking with gas from dry biomass

https://energypedia.info/wiki/File:2014-03_Micro_gasification_manual_GIZ_HERA_Roth.pdf

Productive use of thermal energy – now available in French

https://energypedia.info/images/2/24/Productive_Use_of_Thermal_Energy_Overview.pdf



Thank you

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HERA – Poverty-Oriented Basic Energy Services

Monika.rammelt@giz.de

www.giz.de/hera

