

# Best Practices with Learnings, Barriers , Experiences and Solutions for scaling up of access to clean cooking



**Presented by : Hariyali - Energy Initiative  
Self Employed Women's Association**



## Goals of SEWA Full Employment & Self reliance

Contributed towards saving time & money which leads to more employment opportunities , **asset building for women at their door step and improved health of women**

Involvement in **124 trades , presence in SAARC countries , 14 states in india** agriculture as primary occupation lead by Animal husbandry as sec

Based on quantitative & qualitative feedback from women members **awareness campaigns designed and demonstrations** were held at villages

In 2008 , Regular interaction with the help of our grass root leaders we learned **household energy issues like cooking, lighting and pumping** a major blocks

**Extensive field tests in 4 states with 14 available improved cook stove** providers by using parameters like technology , design , durability, ability to meet user need and affordability

In 2009 , a campaign **"Hariyali"** launched with a goals to deliver energy access to 1.9 million SEWA members

By giving energy inclusion can help to make savings , improve Health , productivity , Time Poverty, **dependency on fuel like wood , kerosene can be minimize**



## How clean cooking/cook stove lead to Full Employment , women's economic empowerment ?

Reduction in Indoor air pollution leads to **improved health** condition of women-n-children & overall appearance of house.

Less time spend on collecting fuel & less fuel required due to better **thermal efficiency** using improved cook stove leads to **saving in time and money saved 40 to 50%**

Less time spent on cooking, lead to more time available for **income generation at grassroot level** like stitching work , working as laborer in the fields where they get instant daily wages.

*Therefore its' dignity & self respect that women members feel when they have clean cook stove, clean environment and improved health.*

### COOKSTOVE SOLD

3000 Units

### LOAN AMOUNT

INR 2750 ( USD 41)  
(flexible repayment schedule starting from 6months to 18months)

### REPAYMENT

**100%**  
(20% installments delayed because of product breakdown but recovered)



**Product design** Small flame size ,can't cook traditional food , runs on electricity (forced draft stove) , users end up buying battery backup thrice in a year

**Quality** is major concern with few private players available in market  
Material issues like corrosion , Multiple breakdown

**Durability** , it's a big ?

**Availability of fuel** - Pellets are rarely available in villages leads to buying small pieces of wood or End up spending time on cutting wood in small pieces

**Operational cost & time** – where women's are still spending time on collecting wood and buying wood

**Product not worth a price**

An application is developed by SEWA with GACC conducting 598 surveys in 27 villages , now integrating application as women need mixed grid energy approach. Constant innovation on software to cater to newer needs is needed

Service camps,  
Team of technician at grass root level  
Feedback to manufacturer on design and quality

## Barriers

**Dissatisfaction in product**

**Members Lost trust**



## Voices of SEWA sisters

*For people like us its necessary to use both traditional stove, improved cook stove and LPG stove, when we came back from labour work we need to make food for family quickly. it becomes easy to prepare food and our time can be saved and we can take some rest.*

**-Baiba Raysinghji Thakor, Chandrda village, Mehsana District, Gujarat.**



*Improved cook stove was really good. I used to make all food on the cook stove provided from SEWA but with in a year 2 times it stopped working after that we didn't receive repair services or didn't find any local service shop for repairing. Hence stopped using cook stove.*

**- Ramilaben Ganpatbhai Padhiyar , Gambhira Village , Anand district , Gujarat.**

*It doesn't make any difference as I am using same wood in improved cook stove that has been given to me. Usage of fuel is less but I need to give time to cut wood in small pieces as we can't afford to buy small wood pieces available in market -*

**Savitaben Somaji Thakor, Kaiyal Village , Mehsana district , Gujarat.**



*We were used to cook on improved cook stove but battery backup was not working properly we get it changed and it worked well for another 6 months only. we received a connection under Government scheme but we are using traditional cook stove. It became easy to make Rice, vegetables and Roti on LPG. If we use LPG fuel for everything it becomes costly where as wood is easily available and its free.*

**-Lakhiben Sumabhai solanki , Manpura village , Anand district , Gujarat.**





# Learnings

- **Use of multiple products** : There are many requirements and for the same women members are using different types of products

**Cooking daily  
Bread(Rotla),  
Food for Cattles ,  
Boiling water**

**Traditional 3  
stone stove**



**Rice, Vegetable**

**Improved cook  
stove**



**Tea, Rice,  
Vegetables , Small  
bread(Roti)**

**Using clean  
fuel like LPG**



# Learnings

- **Lack of awareness on**  
Health issues , On emission of  
gases & environmental  
problems



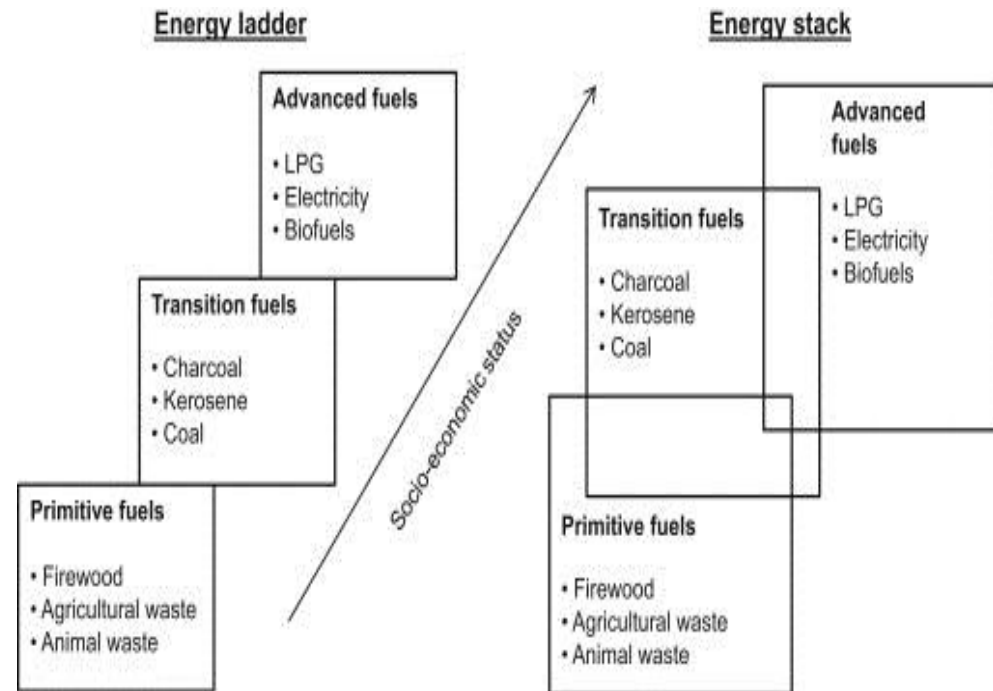
- **Affordability & Availability**

it's a challenge as all available fuels or improved cook stove options or clean fuel like LPG is beyond the reach of poor & last mile connectivity is challenge



# Present solutions and best practices of successful interventions

- Focus needs to shift from providing clean cook stove to clean fuel
- Bio fuels and solar based induction stove can be possible solutions which are available locally , can be produce locally.
- LPG is still a FOSSIL FUEL. Reliable and small scale Bio gas plant is needed.



Picture courtesy : Sciencedirect.com + Google images







*Thank you*

