

Implementing Low-Carbon Rural Development: Lessons from India

Jason Funk

December 1, 2012



A household biogas unit serving a family of 5 or 6 members can mitigate 1.5-3 tons per year while:

- Reducing indoor air pollution thus**
- Improving household health**
- Freeing up time used to collect firewood and opening the door for new income generation opportunities**



Efficient Cook Stoves



Chulika photo from isquared



Changing farming practices can promote:

- Resource use efficiency**
- Profitability**
- Mitigation and Adaptation**

Where we work



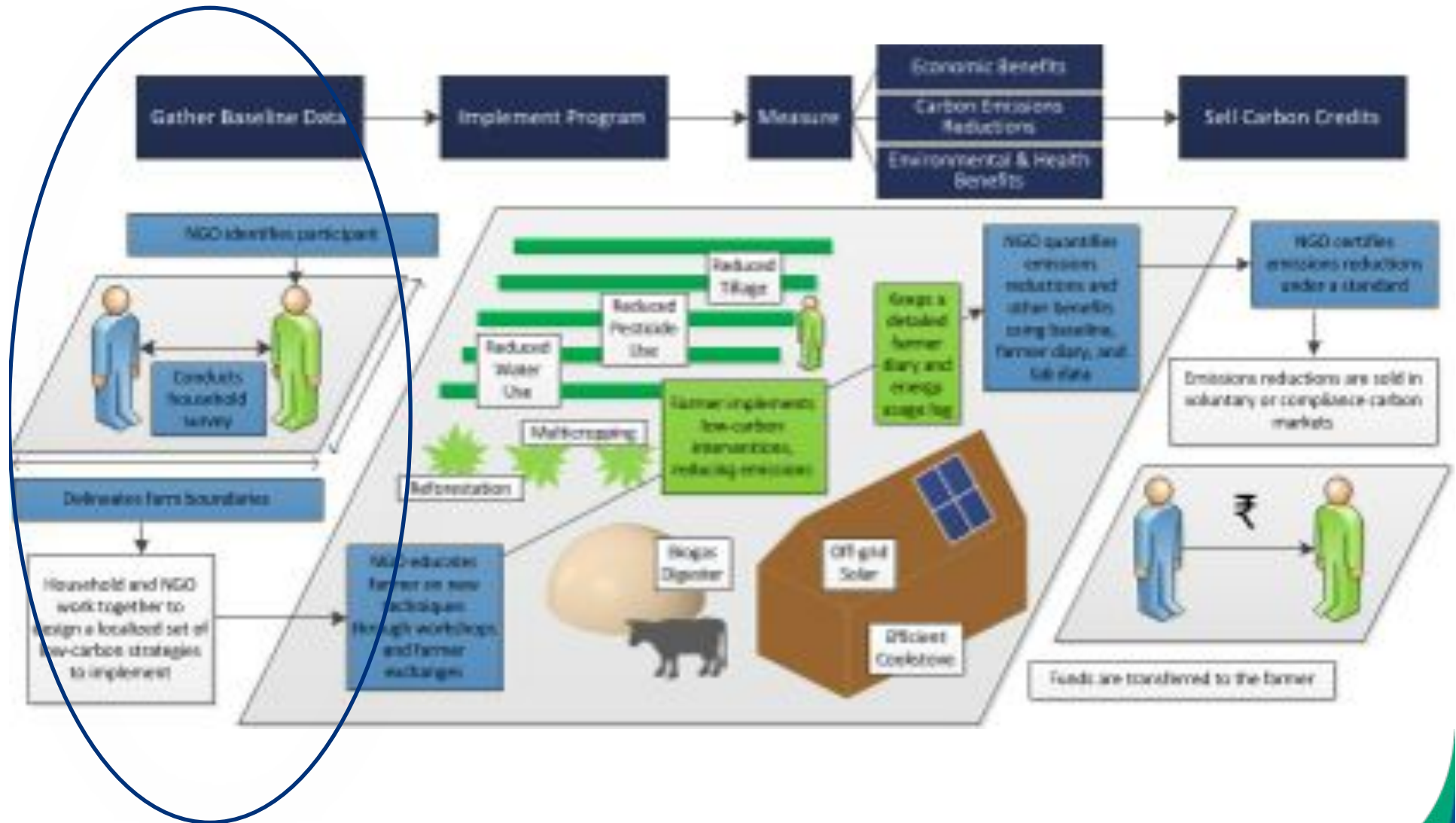
Our Partner Network of NGO's

- Members of "Fair Climate Network"



PWDS
Palmyrah Workers Development Society

Our Approach



Capture Demographic Data

FCN FAMILY SURVEY FORMAT - FAMILY DEMOGRAPHY

District			
Taluk			
Gram Panchayat			
Village			
Head of Household			
Age (Years)			
Sex (M/F)			
Father's Name			
Mother's Name			
Qualification			
Occupation			
Election ID No.			
Bank A/c No.			



Capture Demographic Data

Caste/Community		
Annual Income (Rs)		

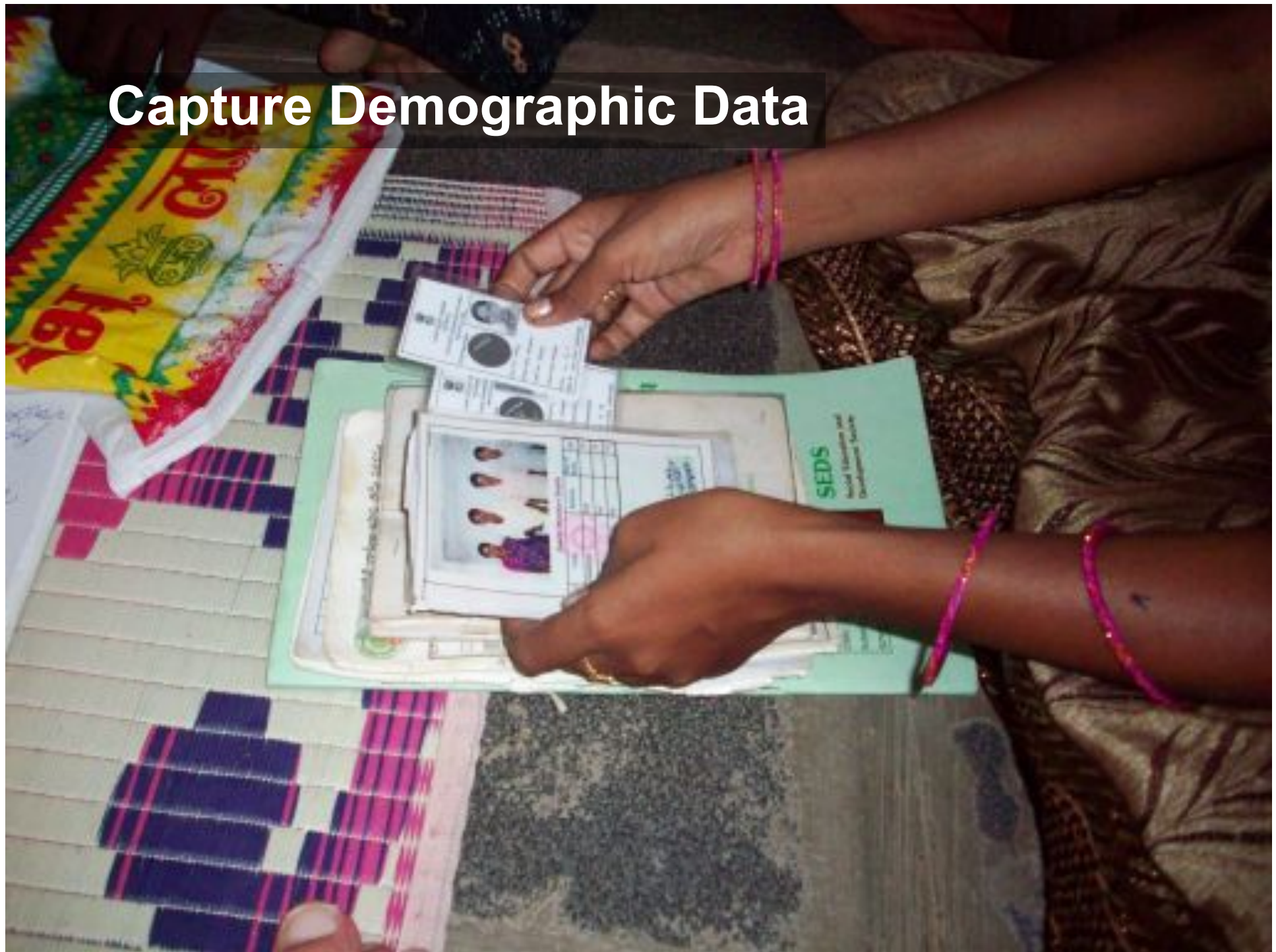
House 1 Type		
Now Electrified? (Yes/No/Disconnected)		
House 1 Length (Feet)		
House 1 Breadth (Feet)		

Space to build Biogas Unit? (Yes/No)	
Distance from Kitchen (Feet)	

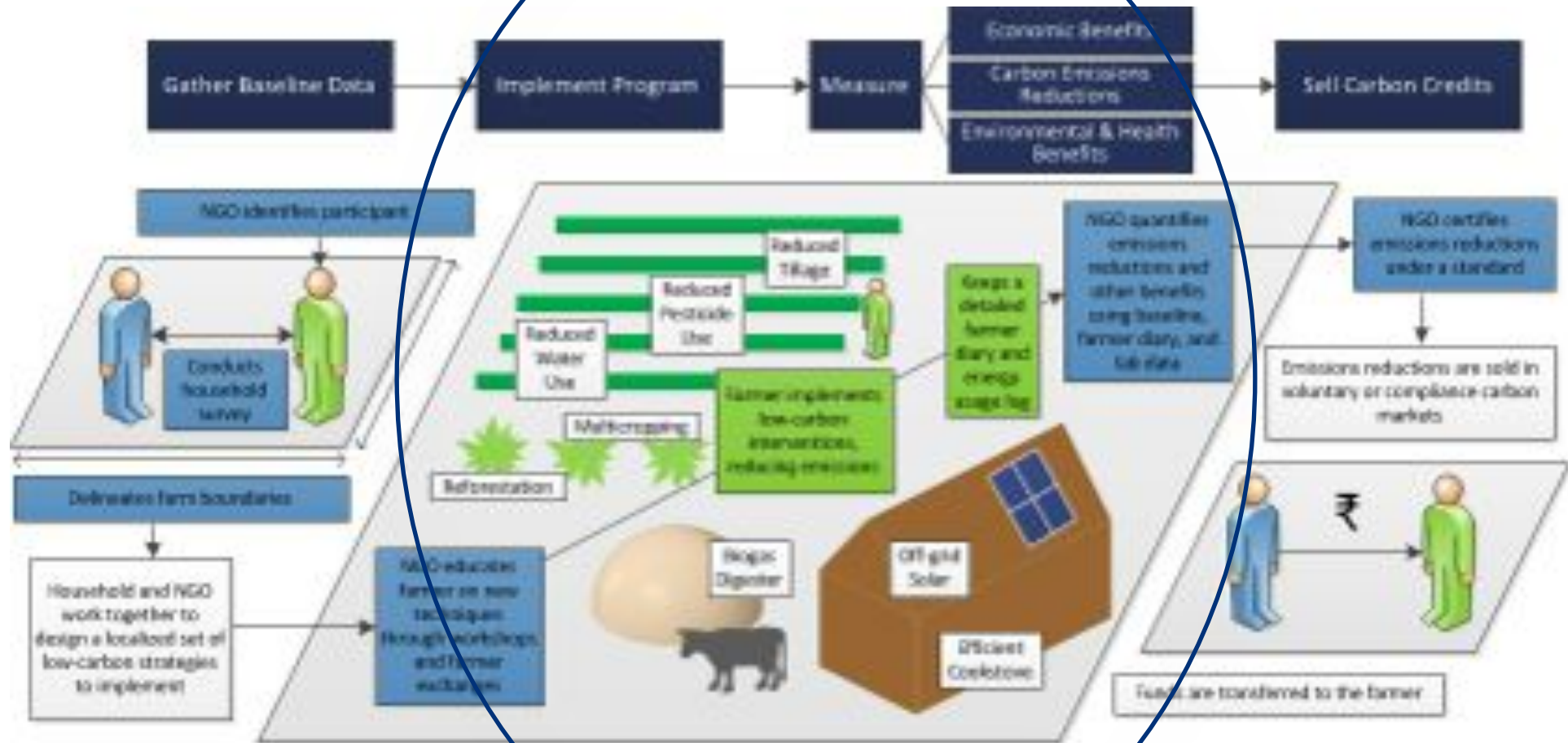
House 2 Type		
Now Electrified? (Yes/No/Disconnected)		
House 2 Length (Feet)		
House 2 Breadth (Feet)		



Capture Demographic Data



Our Approach







Monitor Usage

BIOGAS COM PROJECT OF BOS DAILY USAGE MONITORING BOOK

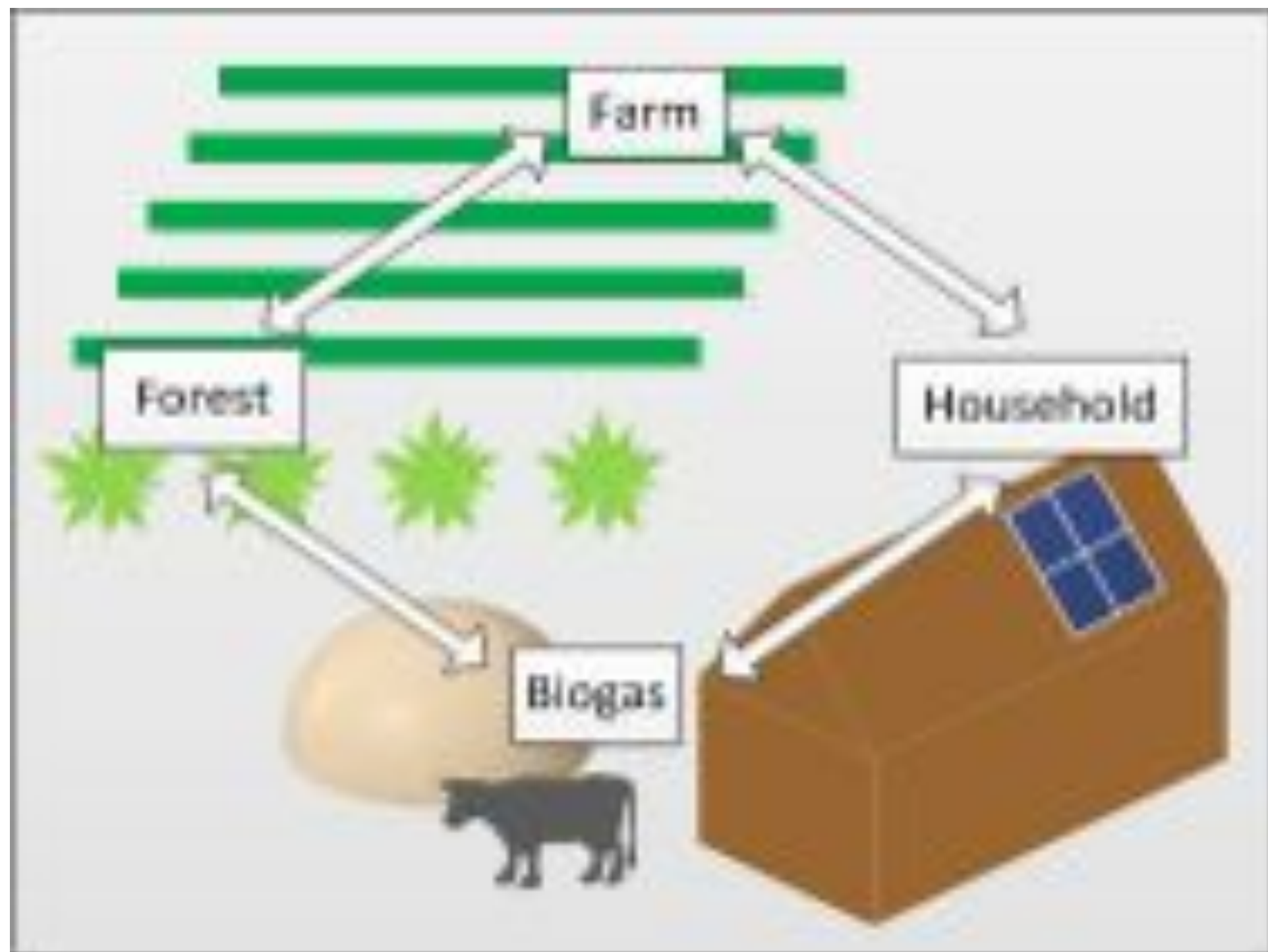
Int ID: 2587 Name: 23.045 Gadhawa Kalya Year: 2011

Month: December Quarter: 4th

Date	Net used	Waste/loss	Total
1st			
2nd			
3rd			
4th			
5th			
6th			
7th			
8th			
9th			
10th			
11th			
12th			
13th			
14th			
15th			
16th			
17th			
18th			
19th			
20th			
21st			
22nd			
23rd			
24th			
25th			
26th			
27th			
28th			
29th			
30th			
31st			
Month Total			

Measure Emission Reductions





Project Snapshot 2012

Project	Reach	Estimated Emissions Reductions
1. ADATS Biogas	5,500 families	19,800 tCO2-e per yr
2. BCS Biogas	18,000 families	50,040 tCO2-e per yr
3. SEDS Biogas	5,000 families	18,250 tCO2-e per yr
4. AF Biogas	15,000 families	52,500 tCO2-e per yr
5. BEST Biogas	15,000 families	approx 50k tons per yr
6. JSMBT Woodstoves	43,000 woodstoves	45,150 tCO2-e per yr
7. SAMUHA Woodstoves	43,000 wood stoves	45,150 tCO2-e per yr

By the end of 2012, the network will have built and installed 58,000 new biogas units and delivered more than 80,000 efficient woodstoves to 100,000 households

