Project
CDM Cookstoves [Country]

Scenario Assumptions

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Sales, Partner Org 1	-	-	-	-	-	-	-	-			
Sales, Partner Org 2	-	-	-	-	-	-	-	-			
Sales, Partner Org 3	-	-	-	-	-	-	-	-			
Sales, Partner Org 4	-	-	-	-			-	-			
Total Annual Sales for All Partners:	-	-	-	-	-	-	-	-			**total units implemented:**
Total Annual Carbon Volumes (tCO2e):	0	0	0	0	0	0	0	0			

Index for Sales Numbers	100%
Program Start Year (operational)	2011
Program Registration Date (crediting begins)	2012

Product Age:	**Age 0 - 1**	**Age 1 - 2**	**Age 2 - 3**	**Age 3 - 4**	**Age 4 - 5**	**Age 5 - 6**	**Age 6 - 7**	**Age 7 - 8**	**Age 8 - 9**	**Age 9 - 10**
Usage Rate at End of Year	90%	90%	80%	65%	45%	20%	0%	0%	0%	0%
Average Usage by Product Age	95.0%	90.0%	85.0%	72.5%	55.0%	32.5%	10.0%	0.0%	0.0%	0.0%
Leakage in ER per year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

VARIABLES FOR $ER_y = B_{y,savings} \cdot f_{NRB,y} \cdot NCV_{biomass} \cdot EF_{projected_fossilfuel}$ **AND** $B_{y,savings} = B_{old} * (1 - \frac{SC_{new}}{SC_{old}})$

	value	units	notes
Non-Renewable Biomass (f_{NRB})	70.0%	percentage	Study
NCV biomass	0.0156	TJ/t	IPCC default
Emissions Factors ($EF_{projected-fuel}$)	81.6	(t CO2/TJ) [1]	IPCC default
Traditional equiv stove - Consumption Rate (SC_{old})	20.0000	rate	Controlled Cooking Test
Improved stove - Consumption Rate (SC_{new})	10.00	rate	Controlled Cooking Test
	per HH		
$B_{y,savings}$ (ton wood-equivalent/year)	3.20		
B_{old} (ton wood-equivalent/year)	6.39	Conservativeness: For validation purpose consider Bold as half of biomass self-reported.	
Leakage factor	0.95	applied to B_{sd}	

Emmision Reductions	per stove/year	
TOTAL	**2.7046**	accounts 100% usage

SSC-CDM METHODOLOGY CAP

Variable	**Value**	**Units**
Energy Cap (SSC-CDM Methodology limit)	180	GWh_{th} per annum
Converted Energy Cap (SSC-CDM Methodology limit)	649.82	TJ_{th} per annum

CALCULATED PROJECT VALUES UPON CAP

Energy Generation and Energy Savings (*)	**Value**	**Units**	**Fuel Type**
Energy generation by traditional equivalent stove (B_{sd}*$NCV_{biomass}$)	0.028	GWh_{th}/year	Wood equivalent
Energy generation by improved stove (B_{sd}*$NCV_{biomass}$* SC_{old}/SC_{new})	0.055	GWh_{th}/year	Wood equivalent
Energy savings per improved stove (account 100% usage)	-0.028	GWh_{th}/year	Wood equivalent
Stove Installation Cap			
Improved stoves installation cap per year (accounts 100% usage)	**(6,519)** per year		
Emissions Reductions Cap			
Calculated CDM small scale ER limit	**(17,630.90)**	CERs per year	

percentage of the type II limit -0.02

Other unit converters

1 terajoule =	*0.28*	*gigawatt hour*
1 year =	*365*	*days stoves are used*

Simplified Emissions Reductions Calculator

Annual Assumptions	Project Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
Partner Org 1		-	-	-	-	-	-	-	-	-	-	-
Partner Org 2		0	0	0	0	0	0	0	0	0	0	
Partner Org 3		0	0	0	0	0	0	0	0	0	0	
Partner Org 4		0	0	0	0	0	0	0	0	0	0	
Total Product Units Sold Per Year		-	-	-	-	-	-	-	-	-	-	-
Total Annual ER Volumes (tCO2e):		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
ERs/Product-Year (weighted by stove sales, acc	**#DIV/0!**								**5 Year total**		**-**	
TOTAL IN USE		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**10 year total**		**-**	

"Pers" Analysis	Product Age: Usage:	Age 0 - 1 95%	Age 1 - 2 90%	Age 2 - 3 85%	Age 3 - 4 73%	Age 4 - 5 55%	Age 5 - 6 33%	Age 6 - 7 10%	Age 7 - 8 0%	Age 8 - 9 0%	Age 9 - 10 0%	Age 10 - 11 0%
Carbon Price	**$12.00**											
Annual Product Carbon Value	**32.46**	30.83	29.21	27.59	23.53	17.85	10.55	3.25	-	-		
Discount Rate	**10%**											
NPV	**$107.67**											
Installed Product Cost												

Product Units in Use by Age and Year Sold		Average Usage by Age Age 0 - 1	Age 1 - 2	Age 2 - 3	Age 3 - 4	Age 4 - 5	Age 5 - 6	Age 6 - 7	Age 7 - 8	Age 8 - 9	Age 9 - 10	Age 10- 11
Year Sold	**Units Sold**	**95%**	**90%**	**85%**	**73%**	**55%**	**33%**	**10%**	**0%**	**0%**	**0%**	**0%**
2012	-	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-

Product Years Accumulated Yearly	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Year Sold											
2012	-	-	-	-	-	-	-	-	-	-	-
2013		-	-	-	-	-	-	-	-	-	-
2014			-	-	-	-	-	-	-	-	-
2015				-	-	-	-	-	-	-	-
2016					-	-	-	-	-	-	-
2017						-	-	-	-	-	-
2018							-	-	-	-	-
2019								-	-	-	-
2020									-	-	-
2021										-	-
2022											-
Total Product Years Accumulated	-	-	-	-	-	-	-	-	-	-	-

ER Volume Results

CO2e Credits Per Product/Year (does not accou	**2.70**											
Total Annual ER Volumes (tCO2e):		**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
										5 Year total		**-**
										7 Year total		**-**
										10 year total		**-**

General Assumptions for Product Year Calculations

Product volume sold each year is divided into four equal batches, sold each quarter.

New product batches come into use on the middle day of each quarter (i.e., Feb 15, May 15, August 15, November 15)

Summation of ER

Non-Institutional Stoves	2011	2012	2013	2014	2015	2016	2017	2018
projected amount sold	-	-	-	-	-	-	-	-
Total ER (t CO2/y)	-	-	-	-	-	-	-	-
Energy Savings per year (GWh_{th}/y)	-	-	-	-	-	-	-	-
Leakage ER (tCO2/y)	-	-	-	-	-	-	-	-

	Ers	Leakage	Overall
2013	-	-	-
2014	-	-	-
2015	-	-	-
2016	-	-	-
2017	-	-	-
2018	-	-	-
2019	-	-	-
TOTAL	-	-	-
AVG	-	-	-