Project
CDM Cookstoves [Honduras]

Scenario Assumptions

Year	2012	2013	2014	2015	2016	2017	2018
Sales, Partner Org 1	-	-	-	-	-	-	-
Sales, Partner Org 2	-	-	-	-	-	-	-
Sales, Partner Org 3	-	-	-	-	-	-	-
Sales, Partner Org 4	-	-	-	-			-
Total Annual Sales for All Partners:	-						
Total Annual Carbon Volumes (tCO2e):	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**
Usage Rate at End of Year	90%	90%	80%	65%	45%	20%	0%
Average Usage by Product Age	95.0%	90.0%	85.0%	72.5%	55.0%	32.5%	10.0%
Leakage in ER per year	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** $B_{y,savings} = B_{old} \cdot (1 - \frac{\eta_{old}}{\eta_{new}})$

	value	**units**	**notes**
Non-Renewable Biomass (f_{NRB})	758.0%	Percentage	Study
NCV biomass	0.0156	TJ/tonne	IPCC default
Emissions Factors ($EF_{projected\text{-}fuel}$)	81.6	(ton CO2/TJ) [1]	IPCC default
Traditional equivalent stove - Thermal efficiency (η_{old})	0.1000	Percentage	AMS-II.G Default
Improved stove - thermal efficiency (η_{new})	0.25	Percentage	Study
	per HH		
$B_{y,savings}$ (ton wood-equivalent/year)	0.00		
B_{old} (ton wood-equivalent/year)		Conservativeness: For validation purpose consider Bold as half of biomass self-reported.	

Leakage factor	0.95	Applied to B_{old}

Emmision Reductions	per stove/year (ton wood-equivalent/year)	
TOTAL	**0.0000**	Assumes 100% Usage

SSC-CDM METHODOLOGY CAP

Variable
Energy Cap (SSC-CDM Methodology limit)
Converted Energy Cap (SSC-CDM Methodology limit)

CALCULATED PROJECT VALUES UPON CAP

Energy Generation and Energy Savings (*)
Energy generation by traditional equivalent stove (B_{old}*$NCV_{biomass}$)
Energy generation by improved stove (B_{old}*$NCV_{biomass}$*η_{old}/η_{new})
Energy savings per improved stove (account 100% usage)
Stove Installation Cap
Improved stoves installation cap per year (accounts 100% usage)
Emissions Reductions Cap
Calculated CDM small scale ER limit

percentage of the type II limit

Other unit converters

1 terajoule =	0.277 gigawatt hour
1 year =	365 days stoves are used

2019	2020	2021
-		
-		
-		
-		
0		

Age 7 - 8	Age 8 - 9	Age 9 - 10
0%	0%	0%
0.0%	0.0%	0.0%
0.00	0.00	0.00

Value	Units
180	GWh_{th} per annum
649.82	TJ_{th} per annum

Value	Units	Fuel Type
0.000	GWh_{th}/year	Wood equivalent
0.000	GWh_{th}/year	Wood equivalent
0.000	GWh_{th}/year	Wood equivalent
#DIV/0!	per year	
#DIV/0!	CERs per year	

0.00

Simplified Emissions Reductions Calculator

Annual Assumptions	Project Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
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	**#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	**-**	-	-	-	-	-	-	-	-	-		
Discount Rate	**10%**											
NPV	**$0.00**											
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%**
2013	-	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-
2023	-	-	-	-	-	-	-	-	-	-	-	-

Product Years Accumulated Yearly	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Year Sold											
2013	-	-	-	-	-	-	-	-	-	-	-
2014		-	-	-	-	-	-	-	-	-	-
2015			-	-	-	-	-	-	-	-	-
2016				-	-	-	-	-	-	-	-
2017					-	-	-	-	-	-	-
2018						-	-	-	-	-	-
2019							-	-	-	-	-
2020								-	-	-	-
2021									-	-	-
2022										-	-
2023											-
Total Product Years Accumulated	-	-	-	-	-	-	-	-	-	-	-

ER Volume Results												
CO2e Credits Per Product/Year (does not ac	**-**											
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	2012	2013	2014	2015	2016	2017	2018	2019
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	-	-	-