

## ADES – energy efficient cookers distributed 2001 – 2015

Year/ Cooker type	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
Solar box cooker	194	113	194	387	249	440	624	1459	621	1485	1349	1663	1476	620	484	11358
Electro solar cooker (with integrated solar panels)	0	0	0	0	0	0	0	0	0	0	0	13	227	336	12	588
Solar cooker, parabolic	0	0	0	0	0	0	102	67	15	26	111	160	114	100	74	769
<b>Total solar cookers</b>	<b>194</b>	<b>113</b>	<b>194</b>	<b>387</b>	<b>249</b>	<b>440</b>	<b>726</b>	<b>1526</b>	<b>636</b>	<b>1511</b>	<b>1460</b>	<b>1836</b>	<b>1817</b>	<b>1056</b>	<b>570</b>	<b>12715</b>
Improved cookstove for wood Ø 30 cm	0	0	0	0	0	0	121	117	0	627	1125	1392	2039	4056	5177	14654
Improved cookstove for charcoal Ø 30 cm	0	0	0	0	0	0	0	0	0	171	3823	7451	12273	19763	24136	67617
Improved cookstove for wood Ø 45 cm	0	0	0	0	0	0	0	0	0	0	0	83	111	116	149	459
Improved cookstove for charcoal Ø 45 cm	0	0	0	0	0	0	0	0	0	0	234	777	624	832	776	3243
Improved cookstove for wood Ø 60 cm	0	0	0	0	0	0	0	0	0	0	0	46	58	57	105	266
Improved cookstove for charcoal Ø 30 cm	0	0	0	0	0	0	0	0	0	0	0	0	30	155	100	285
<b>Total improved cookstoves</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>121</b>	<b>117</b>	<b>0</b>	<b>798</b>	<b>5182</b>	<b>9749</b>	<b>15135</b>	<b>24979</b>	<b>30443</b>	<b>86515</b>
<b>Total</b>	<b>194</b>	<b>113</b>	<b>194</b>	<b>387</b>	<b>249</b>	<b>440</b>	<b>847</b>	<b>1643</b>	<b>636</b>	<b>2309</b>	<b>6642</b>	<b>11585</b>	<b>16952</b>	<b>26035</b>	<b>31013</b>	<b>99239</b>

### Reasons for faster growth of improved cookstoves output:

- Improved cookstoves offer more flexibility: They can be used no matter whether the sun shines or not.
- A great deal of training is required in order for solar cooking to be accepted, cooking habits to be sustainably changed and the cookers to be properly used (initial training sessions of two to six days plus at least once per year a refresher course). Improved cookstoves require less training as people are used to cooking with fire.
- Meals prepared with improved cookstoves have the typical “fire taste” or “smoke taste” that people are used to. Many people complain about the absence of this taste when preparing meals with solar cookers.
- Manufacturing, training and logistics costs of improved cookstoves are much lower compared to solar cookers. Therefore, ADES can reach more impact (climate, environment, health, family spending) for the same costs by disseminating improved cookstoves. Although ADES largely covers the full costs of both cooker types by donations and only charges very modest prices to the local population, many people cannot afford to buy the higher-priced solar cookers. Moreover, they are not used to the concept of spending money with a view to getting a return on investment some time in the future. (For people who have to purchase firewood or charcoal, improved cookstove pays off within three months, a solar cookers within half a year).
- ADES is currently developing alternative solid fuels for improved cookstoves based on residues of locally cultivated plants (e.g. rice husk, banana skins, coconut husk) in order to drastically reduce the wood consumption.