Let Sun Cook It All

at Jimmy McGilligan Centre for Sustainable Development





To promote solar cooking as an integral part of our daily life. Society is generally taught to rely on few resources and we make mistake by neglecting the most convenient resource THE SUN and this centre has the core purpose of using the same for our daily energy consuption.

- Solar Box Cooker

 Multiple pots Cooker.

 Temperature: 100 to 175 C.

 Use both direct and diffusion radiation.

 Cooking Time: 1.5 to 2 hour.

- Haines Solar Cooker

 Developed by: Roger Haines.

 Materials used: MPET (metalized polyester) film bonded to amm of IXPE (cross-linked polyester) foam, with a white PET film backing.

 Cooking Time: Boil water (100 C) in 1 hour.

- HotPot Solar Cooker

 Manufactured by:- the Fondo Mexicano Para La Conservación de la Naturaleza(Mexico)
- Naturials used: Aluminium(reflective surface) and Steel with Enamel coating(bowl).

 Max. Temperature: 120 C.

 Every method of cooking besides Frying and Grilling can be done.

- Funnel Solar Cooker

 Developed by: Celestino Ruivo

 Materials used: Aluminium and Cardboard.
 Cooking Method: Baking, Boiling, Roasting etc.

 Sunlight is concentrated along a line (not a point) at the bottom of the funnel.

- Celestino Solar Cooker

 Invented by Dr. Celestino Ruivo, University of Algarve,
 Portugal and manufactured by Manik Solar Innovation, Punjab.
 Sheets used: Corrugated sheet.
 Cooking Method: Baking, Boiling, Roasting, Drying etc.

Scheffler Cooker

- Developed by :- Wolfgang Scheffler.
 Self rotating type Cooker (15 degrees per hour).
- Temperature :- 300-350 C.
 Cooking Time :- ½ to 1hour.

Jimmy McGillian Centre for Sustainable Development is using solar cookers for every cooking methord like Baking, Frying, Roasting, Boiling, Grilling etc. They can be made with easily available material and can achieve sufficient temprature to cook any type of food. Also, Centre's last gas cylinder was replaced 2 years ago i.e 2014which proves the efficiency and advancement of technology. This is the only place in India having 12 different designs of solar cookers. And about 40000 people have already witnessed the beauty of the centre since its inaugral which was on August 31, 2013.

Centre's Team:

Dr. (Mrs.) Janak Palta McGillian Director at Jimmy Mcgillian Centre for Sustainable Development

Mrs. Nanda Chouhan Programme Assistant

Mr. Rajendra Singh Chouhan Programme Assistant

All solar cookers and their some

community.

characterstics have been presented together

with their pictures, these all clearly shows that

we can undoubtedly rely on solar cooker. The steps taken by JimmyMcGillian Centre for Sustainable

sustainable developmand use of solar energy for all purpose work can take the whole idea of solar cooking

to set up new benchmarks for betterment of society and

Development to promote the idea and concept of

Parvati Solar Cooker

Designed by:- Mr. Rayindra and Mrs. Shobha Pardeshi. Materials used:- Mild steel with powder coating. Max. Temperature:- 135 C Cooking Time:- 1 ½ to 2 hour

- Ultra Portable Solar Cooker

 Manufactured by:- NVIS Cleantech.

 Materials used:- Aluminized Polyethylene(inside),
 Polyester(outside).

 Temperature:- 100-143 C

All Season Solar Cooker

- Manufactured by:- All Season Solar Company.
 Workable in low sun intensity (sunup or sundown).
 Cake, potatoes, bread, poultry, veggies :- all will cook without any adjustments.

SK14 Parabolic Solar Cooker • Developed by :- Dr. Ing. Dieter Siefert. Solar EG. • Cooking Time :- 15min (to boil 2L water) • Power Delivery :- 0.4 kJ/sec.

- Efficiency: 45%.
 Cooking Method: Any Method including Frying and Grilling.

- Copenhagen Solar Cooker

 Manufactured by:- Sharon Clausson in assembled kit.
 Temperature :- 150-190 C.
 Materials used:- Flexible Vinyl.
 Reliable Time Continued.

- · Foldable Type Cooker.

- Prince 15 Solar Cooker

 Developed by:- A.G. Chandak.

 Materials used:- Anodized aluminium.

 Cooking Time:- 20 min (to boil 2L water)

 Temperature:- 350-400 C.

 Power Delivery:- 0.6 kJ/sec.

Reference: http://www.imter.com/published_special_issues/07-02-2015/a-review-of-solar-cookers.pdf http://www.techxlab.org/solutions/parvati-green-tech-enterprises-solar-cook http://solarcooking.wklia.com/wkli/Copenhagen_Solar_Cooker_Light http://www.hainessolarcookers.com/wp content/uploads/2015/11/August2015_SidebySideTests.pdf http://www.solarcooker-at-cantinawest.com/Haines_solar_cooker.html http://www.solarcooker-at-cantinawest.com/sunflar_solar_oven.html http://www.wistech.com/environmental/cleantech-solutions/ultra-portable-solar-cooker

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