

Renewable Energy Interventions In Livelihood



Submitted by:



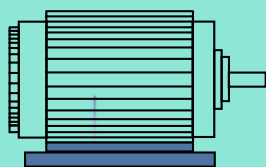
SELCO



Sewing Machine



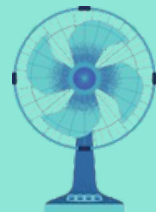
Tailoring is one of the most important livelihoods in India. The scale of tailoring operations can vary depending on the demand generated in the market for their service. Local tailors also serve institutional demands like that of school and other peak season demands. To compete on the existing textile market and achieve higher productivity, traditional manual powered machines are replaced by solar powered motorized tailoring.



PMDC Motor
60 W / 80 W



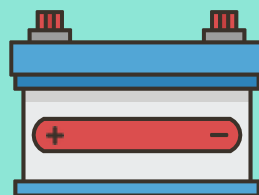
LED Light
5 W, 12 V



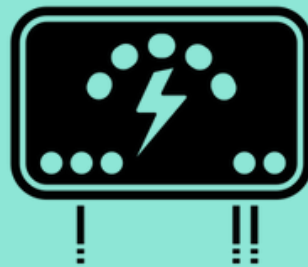
DC Fan
18W, 12 V



Solar Panel
40/ 60/ 75/ 100 W, 12V



Solar Battery
30/40/ 60/ 80 Ah , 12V



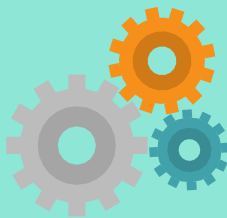
Charge Regulator
10/ 15 A , 12 V



Roti Rolling Machine



Roti making is a common home based livelihood, women usually utilize their existing kitchens as the production units making different kinds of rotis and selling them in local restaurants, canteens; or in some cases packing and selling them in nearby cities. The entire workflow, from kneading the dough, rolling the rotis, to cooking the rotis and then storing them, is done within the same but also in small restaurants (Khanavalis), shops, family workspace. But their business is often limited by the physical capacity of the entrepreneur. The Solar Powered Roti making machine eases this processes and increases the output multifold in such scenarios.



Motorised
Rolling Machine
150 W, 24 V

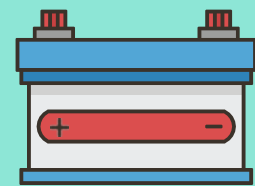
Roti



DC LED Light
5 W, 12 V



Solar Panel
80/ 150/ 300 W, 12V



Solar Battery
60/ 80/ 100
Ah , 12V

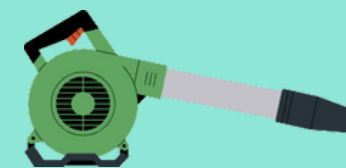


Hybrid Charge Regulator
10 A , 24 V



Blacksmith Blower

Blacksmith is one of the oldest traditional livelihoods in India. The process of blacksmithery is labour intensive as manual efforts are required to keep the furnace burning. Due to the high costs, and unavailability of labour, blacksmiths involve women and children of the family in the task. The DC Blower is a high efficient, high quality, powerful solution to keep the furnace active, thereby cutting the need of labour for the same.



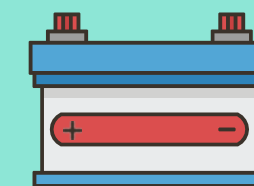
DC Blower
15/ 30 W, 24 V



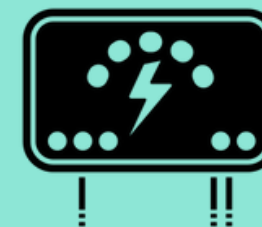
DC LED Light
5/ 10 W, 12 V



Solar Panel
40/ 60/ 120 W, 12V



Solar Battery
20/ 30/ 100
Ah, 12V



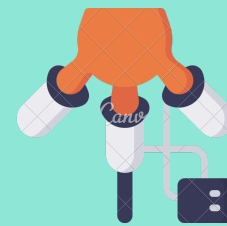
Charge Regulator
10 A, 12 V



Milking Machine



India is the largest producer of milk where more than 70 million rural households are engaged in milk production. At household levels the process of milking is labour intensive and time consuming. Solar powered milking machine allows machine based milking even in rural places which has issues with electricity.



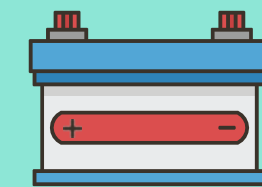
DC Milking Machine
120/ 180 W



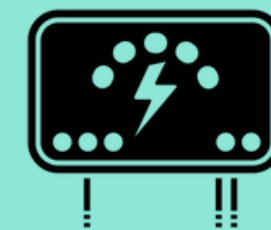
DC LED Light
5 W, 12 V



Solar Panel
75/ 120/ 150/
300 W, 12/ 24V



Solar Battery
80/ 120/ 150
Ah , 12V



Charge Regulator
20 A , 12/ 24 V



Photocopier



Access to photocopying is integral to avail services from financial institutes, government offices, identity documentations, schools and colleges, business transactions, record keeping etc. Without access to this basic digital service in rural, tribal and peri-urban areas, end users lose significant time and money to access or reach these. Even if the facility exists, several times the extremely erratic power with varied voltage fluctuations has led to disruption in the entrepreneurs business. This basic but critical service can be addressed by solar powered photocopy machines which can be run by micro entrepreneurs in rural areas.



Can support printers
upto 25W capacity



DC LED Light
5 W, 12 V



Solar Panel
40 W, 12V



Solar Battery
40 Ah , 12V



Micro Inverter
150 W, 12V



DC Refrigerator



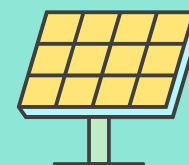
Storage of perishable items like milk, butter, butter milk etc is a huge challenge in rural areas due to lack of Cold storage facilities. As a result end users end up spending more time and money. Also, hotter and prolonged summers have necessitated a great demand for products like cold drinks and milk products in rural areas. Solar powered DC refrigerator helps to store cool drinks, milk products and other small perishable food items. These solar powered refrigerators can be installed in existing petty shops and restaurants.



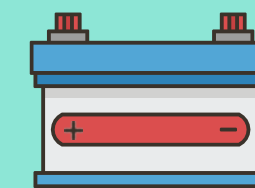
DC Fridge
100 L, 65 W, 12 V



DC LED Light
10 W, 12 V



Solar
Panel 200
W, 12V



Solar
Battery 200
Ah , 12V



Hair Trimmer



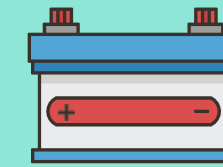
DC LED Light
10 W, 12 V



Solar Panel
100 W, 12V



DC Fan
18W, 12 V



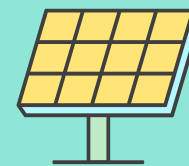
Solar Battery
100 Ah , 12V



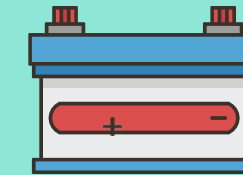
Micro Inverter
150 W, 12V



Sugarcane Juicer



Solar Panel
400 W, 24 V



Battery
135 Ah, 24 V



Solar Inverter
1.6 kW, 2 kVA, 24 V



Thank You