

a. Use of Solar System in Dayalbagh:

Dayal Bhandar

- ✓ Glass desk, Receiver, water (pure), pipes, solar dishes are the solar equipments
- ✓ Use natural energy and its eco-friendly
- ✓ Solar desk (plates) is set east-west as the earth line is set
- ✓ In this system the timer is set according to the sun moving direction and speed or manual timer setting is also available
- ✓ Receiver receives power from the sun and boil the water then steam is generated at around 150 to 180 degree celsius temperature
- ✓ 50kg pulse are prepared in 1 hour and all boiling is done on this system
- ✓ Its cost return technique, 25 lac one time cost after that no any maintenance cost and other cost
- ✓ In Dayalbhandar, Gasifier is also used for making food
- ✓ Good quality woods are necessary for gasifier. Gasifier is mainly used by the coal companies for woods conversion in to coal
- ✓ Woods converted coal generates steam at 150 to 160 degree Celsius temperature
- ✓ All type of foods are made on this system

7. Source: Interview; Primary Data

Solar Van

- ✓ DEI University has been operating a Solar Van to provide local transport for its staff.
- ✓ Solar and electricity power both are available for driving the van
- ✓ 16 batteries of 6 volt are used and total 96 volt power is used for running the van
- ✓ About 20-25 passengers can sit at a time in the van

7. Source: Interview; Primary Data

Use by residence of Dayalbagh

- ✓ Eco friendly technique
- ✓ New and renewable source of energy
- ✓ Gives back or export the power to the grid
- ✓ Minimizes the amount of bill of electricity
- ✓ Its power is 1.5kw
- ✓ Its take load is 18 hours continuously to run 4 CFLs, 4 Fans, 2 Coolers, One fridge
- ✓ System can export 72-100 units and one unit is equal to 1kwh, if system takes 1000w per hour continuously then one unit will be consumed.

7. Source: Interview; Primary Data