

Clique Solar's ARUN® at Chitale Dairy



Summary of the case

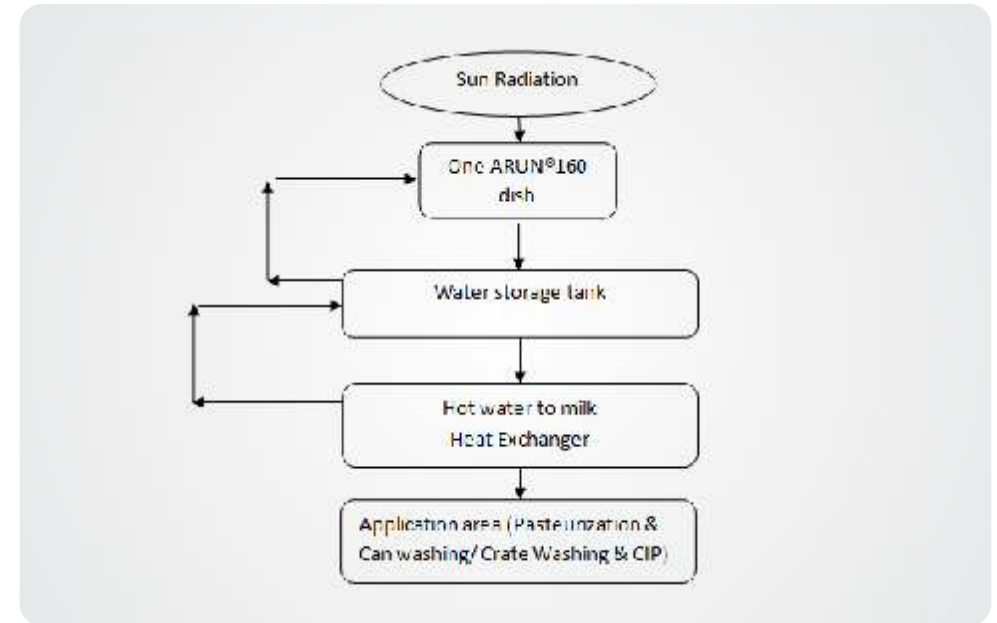
At Chitale dairy, ARUN® solar steam generation system has been installed for applications such as milk pasteurization, can washing, cleaning in place (CIP), etc.

Highlights

- Two ARUN®160 dishes are installed on the terrace of its 3-storeyed building.
- The footprint area is less than 3m x 3m per dish.
- Chitale saves an equivalent of almost 40,000-42,000 litres of furnace oil per annum.
- Reduction in CO2 emissions by almost 110-130 tons per annum.\

Technical Specifications

- This Solar System consists of 2 ARUN® solar concentrator dish.
- It uses a customized PLC (Programmable Logic Controller) based tracking system.
- The dish generates steam at 152° C at 5 bar.



Conclusion

Chitale Dairy has set an example by pioneering the successful use of solar technology for satisfying its thermal energy needs in various applications like pasteurization, can washing, crate washing and CIP.

The system been operating successfully, moreover the economics of the investment also makes a strong case for any industry with thermal energy requirement to install such systems. The MNRE subsidy coupled with accelerated depreciation makes this an extremely attractive alternative to conventional fuels, costs of which are very high.