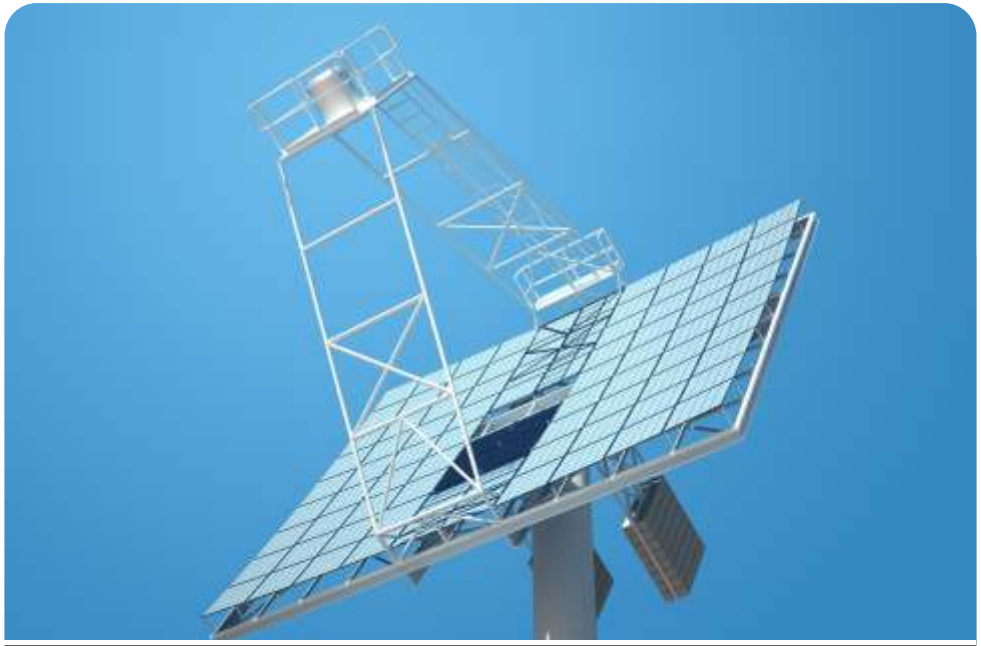
Clique Solar's ARUN® at Akshardham temple



Summary of the case

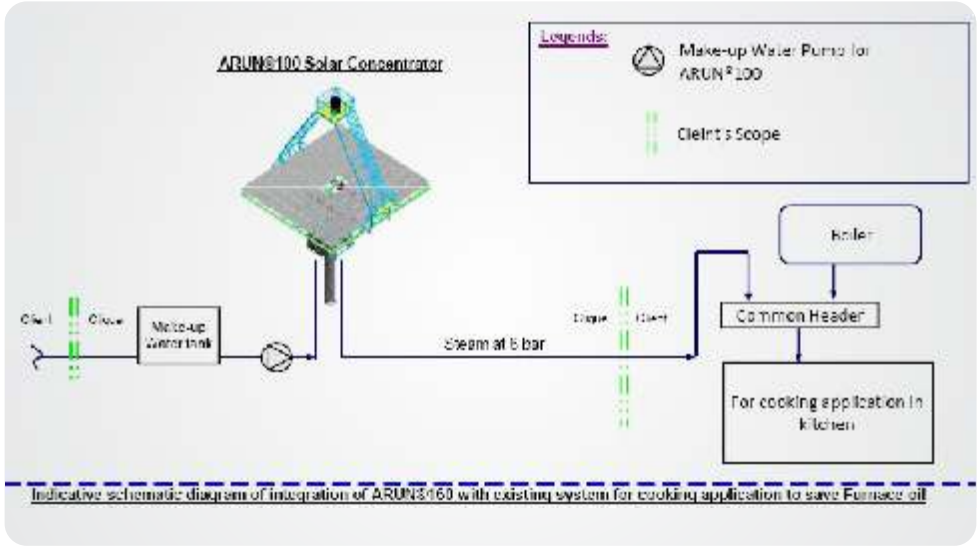
The first installation of ARUN®100 was done at Akshardham Temple, New Delhi. As part of this facility, the solar thermal energy is utilized for mass cooking.

Highlights

- The system is capable of supplying steam for making approx. 3500 meals per day
- Annual savings of 12.5 tonnes of Furnace oil is possible with one ARUN® 100 dish
- The receiver of ARUN® 100 has been designed to minimize losses.
- Occupies less than 10 sq.m ground area

Technical Specifications

- This Solar System consists of 1 ARUN® 100 solar concentrator dish.
- The dish generates steam of 60 kg per hour at 6 bar pressure.
- The dry saturated steam is fed into the common boiler header before it is delivered to the steam jacketed vessels for cooking.



Indicative schematic diagram of integration of ARUN®100 with existing system for cooking application to save Furnace oil

Conclusion

The civil engineering challenges faced at Akshardham were innovatively handled by our team of efficient engineers. Large advances in the solar technologies for satisfying the thermal energy needs of industries are taking place in India. The ARUN solar concentrator dish is a fine example of this. This project showcases the technical and commercial viability of solar thermal systems in Community cooking and also puts the solar thermal R&D capability in India a notch ahead of the rest of the world.

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