

## Clique Solar's ARUN® at Mahindra & Mahindra



### Summary of the case

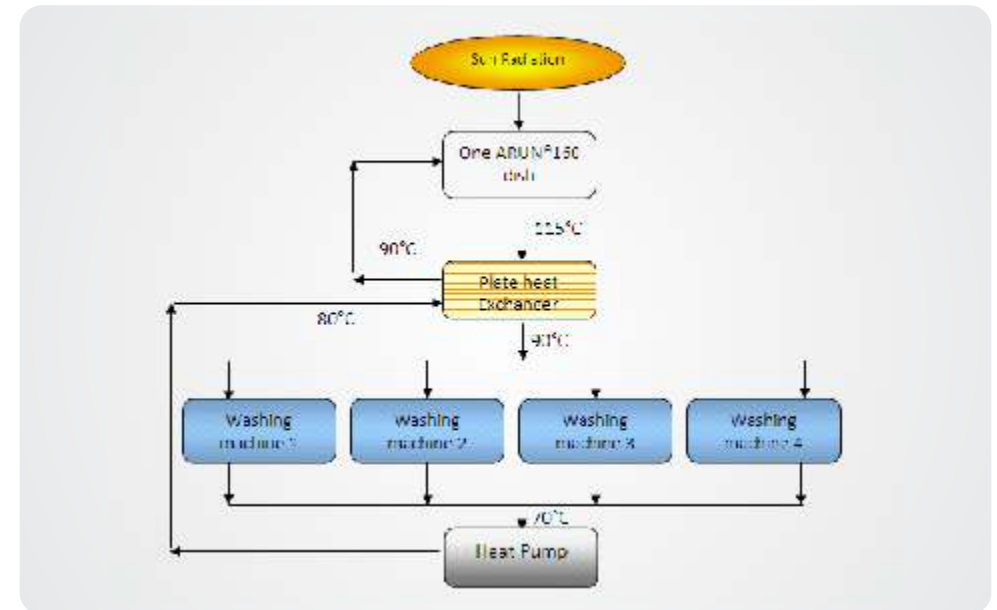
The installation of ARUN® 160 in the automobile manufacturing sector was carried out at MVML (Mahindra Vehicle Manufacturers Ltd., Chakan. As part of this facility, the solar energy is utilized for automobile engine components' washing process (Degreasing).

### Highlights

- The dish has been installed at a height of 8 meters so that the area beneath the dish can be used as Test Track for vehicles.
- "We are satisfied with the ARUN solar dish because it delivers the output of temperature as committed prior to installation. Also, Clique Solar is very prompt in after-sales service." - Mr. Umesh Joshi, GM, Business Excellence, Mahindra and Mahindra.

### Technical Specifications

- This Solar System consists of 1 ARUN® solar concentrator dish.
- The dish generates pressurized hot water at 120° 00C which is used for cleaning engine components.
- On a clear sunny day, 800KWh units of electricity is saved.



### Conclusion

Automobile industry is one of major industries in India having large energy requirements in the form of both thermal and electrical energy. The manufacturing procedure includes many processes that require thermal energy in the low or medium temperature range (60 – 150° C). These processes are very suitable for integration of solar thermal concentrators. This project showcases the technical and commercial viability of solar thermal systems in automobile industry and also puts the solar thermal R&D capability in India a notch ahead of the rest of the world.