

ConcenTracker

Technical Assistance Requests

ConcenTracker solves the problems of solar tracking with a novel design that can easily be mounted on roofs.

As a new venture, ConcenTracker requests assistance in many areas.

Technical Assistance Areas

1. Mechanical design
 - best dimension for frame (match current panel size? single size? multiple sizes?)
 - frame materials (aluminum? PVC? coated steel?)
 - slat design (mounting, cooling fins, materials, etc.)
 - mounting (bracket design? fasteners? rigidity?)
 - drive mechanism / gearing (cost, reliability, maintenance, etc.)
2. Electrical design
 - wiring choices
 - connector choices
 - drive motor
 - fault/overload protection
 - inverter requirements
3. Manufacturing
 - cost analysis
 - assembly
 - parts suppliers
 - planning for operations, maintenance, repairs and end-of-life recycling
4. Optics
 - optimal lens choice (single vs compound, material, etc.)
 - research of high-index materials for sunlight misalignment
 - design of trough concentrator
 - field validations at different locations
5. Corporate / Legal / Intellectual property
 - patent application(s)
 - fund-raising
 - business advisors
 - incorporation and company structure