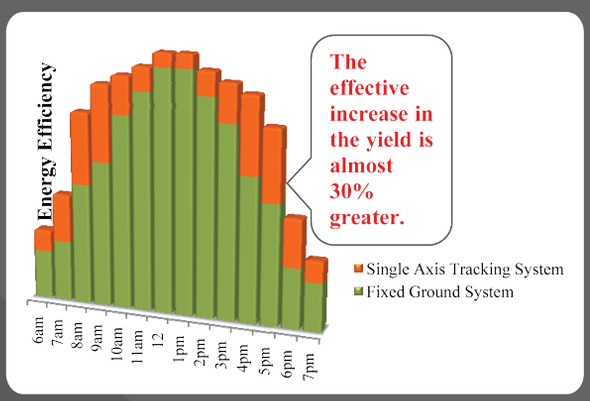
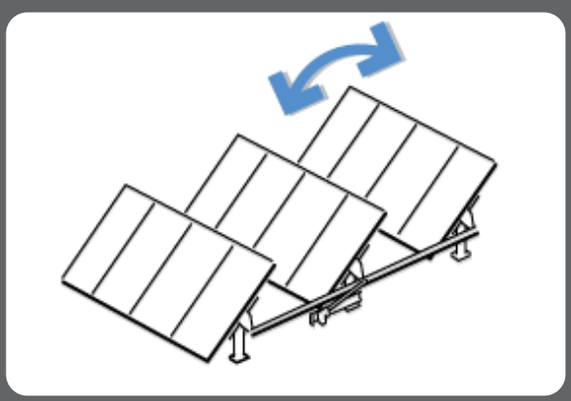
Nuevo-TRAC 1.0 S

Catch the Sun!

Nuevo-TRAC 1.0 S is the concept of mounting the solar panels on a fixed tilt mounting system with a variable azimuth. This allows the tilt angle of the modules to be adjusted (typically monthly) to follow the sun's seasonal elevation changes. As the sun moves across the sky an electric actuator system makes sure that the solar panels automatically follow and maintain the optimum angle in order to make the most of the sunbeams. This approach adds some cost due to the increased complexity of the structure, but the benefits are many.Although tracking systems are more expensive and more complex, they can be cost-effective in locations with high proportion of direct irradiation. With almost no maintenance cost you can expect full return on your investment. This is an upcoming product.

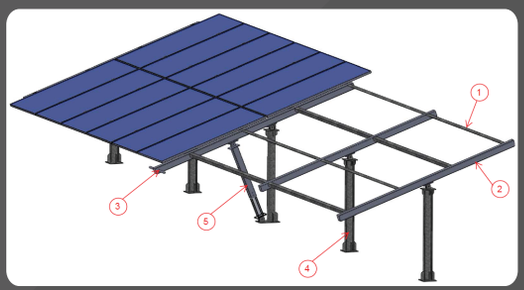




Single-Axis Tracking System

- Tracking the sun from east in the morning to west will increase the efficiency of the solar panel up to 30% depending on the location.
- Single axis tracking system.
- Completely innovative, low elevation system for a SOUTH orientation.
- Offer array design layout and shading analysis.
- Site-specific design, wind analysis and engineering support.
- Durable, can adapt to any terrain, and are certified to withstand heavy wind loads

5 Years
Warranty



Advantages

- Outputs for power plants in South India on par with power plants in North India at the same price / kWh.
- An optimized solution for a project specific custom ization.
- The payback time of the investment is reduced.
- No field welding or cutting required.
- Modular structure suitable for any system size.
- Durable and long lasting materials. Corrosion resistance by using galvanized steel.
- Stable under extreme weather conditions

Technical Data	
Field of Application	Ground mounted, Fixed
PV modules	All types (Framed, frameless)
Tracking system	Single-axis tracking system
Type of soil	All soil classes
Module Orientation	Horizantal
Material	Mild Steel, HDG of 80 microns and Pre-Galvanized sheets of 550 GSM
Connecting elements	SS 304, Grade 8.8
Weight per m^2 module surface	11-12 kg
Span Width	3 – 4m
Wind Survival	180 kmph
Type of foundations	• Cast in-situ concrete • Driven pile • Ballast • Earth Screw
Code & Software	• Calculation principles in accordance with IS 875 for design loads for structures and IS 800 for steel construction. • STAAD-Pro is structural engineering software to analyze and design virtually any type of structure through its flexible modeling environment. • FEM analysis for connection design as a final check.
Driven Type	Hydraulic Actuator

Highlights

- Corrosion resistance by using galvanized steel.
- Very low mainte nance system.
- SS connecting elements.

Parts in the Nuevo-TRAC	
1.	Purlin
2.	Rafter
3.	Rafter arm
4.	Column Post
5.	Hydraulic Post