

Tracking Control Intelligence

TCI is the control intelligence that delivers maximized energy harvesting of tracker-mounted photovoltaic and solar-thermal installations.

TCI implements a hybrid tracking strategy suitable both for a comprehensive plant management system through the CCU (Central Control Unit), as well as for the control of single-trackers, by means of TCU (Tracker Control Unit).

From single-axis and dual-axis tracking systems, to high-concentration photovoltaic and solar thermal systems, both control boards are designed to deliver high tracking accuracy and low power consumption.

TCI is compatible with any tracking system.



Delivering outperforming solar trackers' control

- ✓ Extremely high pointing accuracy (0.01°)
- ✓ Auto-aligning and self-configuring: each tracker autonomously sets the parameters that maximize energy harvesting on a real time basis also in the event of ground movements
- ✓ Energy saving standby option (sleep mode) in cloudy sky conditions
- ✓ Low-power consuming

Intelligence designed around high precision solar tracking needs

Performances and profitability of tracker-mounted photovoltaic and solar-thermal installations heavily depend on how accurately receiving units are pointed to the sun, hence the tracking control intelligence is crucial to drive maximized energy and profit yield.

As certified by independent third parties, TCI exceeds state-of-the-art systems delivering seamless, high-precision control intelligence.

Applications

- Single axis PV
- Dual-axis PV
- Concentration PV (CPV)
- High-Concentration PV (HCPV)
- Solar-thermal
- Concentration solar-thermal

TCI has been tested by

- Enel Ingegneria & Ricerca

TCI is a **sunto** proprietary technology.