

TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

RT002: APS Tilted Tracker Technology

By rotating PV modules on an axis tilted at about the latitude of the site, year-round output is enhanced. The performance of the trackers closely approximates that of a two-axis tracker, with good output even in the winter months.



The APS Tilted Trackers use a hydraulic actuator with electronic controls to advance the position of the PV modules by approximately 2 degrees every 8 minutes. With the tilted axis, the trackers can deliver more solar energy throughout the year than if they were fixed or on a horizontal axis.

Each Tilted Tracker can carry up to 300 square feet of solar panels, about 4,000 Wdc, and is designed for quick field installation.

After dark, the system utilizes a very small amount of energy from the electric grid or batteries to return the trackers to the wake-up position to the east. The tracker waits there until the next morning, when the cycle is repeated.