

new products

Concentrator systems from Zytech Solar

Zytech Solar SL has mostly shown up on the market as a maker of monocrystalline and multicrystalline modules. Together with Grupo 10, a maker and installer of tracking systems, the company has founded a joint venture called CPV Zytech 10. They operate a factory in Toledo, where final assembly also takes place for two concentrator systems. The low concentration system ZT-2000 C was developed by CPV Zytech 10. It consists of a two-axis tracking system, on which every third vertical row is outfitted with



Low CPV: The ZT-2000 C concentrator system (pictured here is a prototype at the Genera trade fair) has mirrors, which concentrate the light by a factor of five.

crystalline modules from Zytech. On both sides of this type of module, there are mirrors affixed at an angle of 45°, resulting in a five-fold concentration ratio. The electricity output is therefore 1.8 to two times higher, says Zytech managing director Enrique Zueco. As the company expects to sell its first products only in July or August, and with commercial production to begin at the end of the year, Zytech has not yet provided any prices. Zueco claims its systems can produce solar electricity around 20 percent cheaper than technologies that don't use concentrators. It plans to offer the systems with an output of between 1.5 and 25 kW.

1,000x: Light is concentrated at a factor of 1,000 using the ZT10-PS-2000C system. The technology comes from Menova Energy, CPV Zytech 10 handles the final assembly.

The Canadian company Menova Energy Inc. is responsible for developing the second concentration system, the ZT10-PS-2000 C. While Menova and Zytech produce the components for the system together, the final assembly also takes place in Toledo. Unlike the first product, this system is a high-concentrating PV system using parabolic mirrors that reflect the light with a concentration factor of 1,000 onto the solar cells. The tracking system uses GaAs cells with an efficiency of 35 percent. The Toledo factory's production capacity is currently at about 1 MW per year. A 30 kW system costs between €150,000 (\$227,900) and €165,000 (\$250,600). *iru*

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