



Planet Sun

PHOTOVOLTAIC SYSTEM
Beghelli

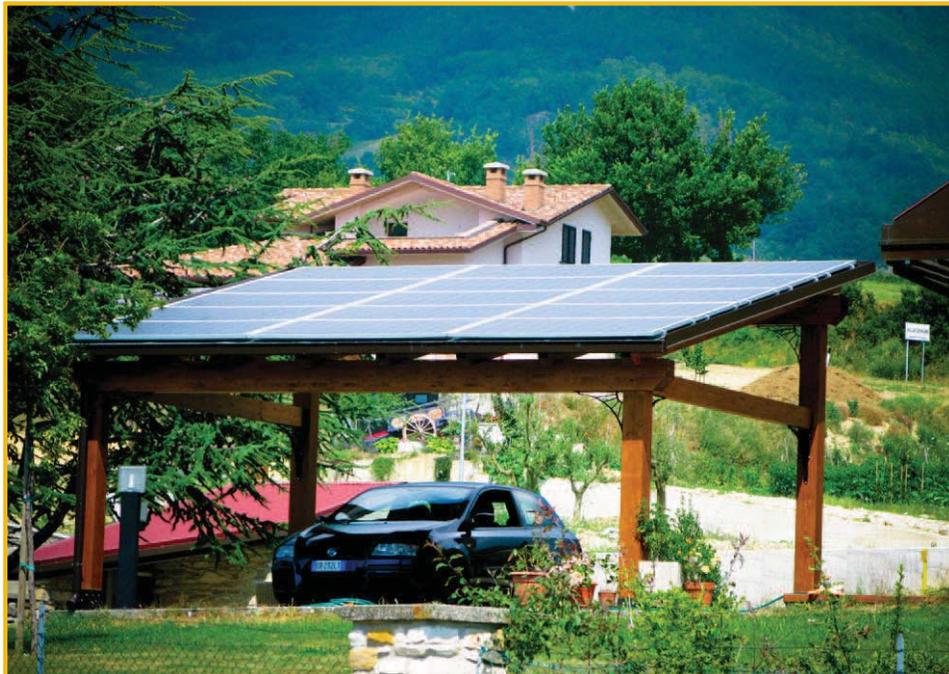


"For the People and the Environment"

www.beghelli.com

*"Only when I saw the Earth from space,
in all its ineffable beauty and fragility,
did I realize that humankind's most urgent task is
to cherish and preserve it for future generations."*

*- Sigmund Jahn
German Cosmonaut*





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Beghelli has installed
photovoltaic projects around the world.
We manufacturer our own panels, inverters,
software and mechanical structures.

Beghelli innovation is an integral part of every solar project that carries our name.
With 35 years in the global market, **Beghelli** continues to design dependable, high
quality and lasting solutions for its lighting and solar customers.





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High Concentration PV: The **Beghelli** LifeTree High Concentration Photovoltaic System is one of the world's most advanced solar energy farming systems. **Beghelli** has combined space based photovoltaic technology with a sun tracking system to enable the absolute maximum amount of sunlight to be turned into electricity. Triple junction solar cells, high quality steel and panel level monitoring result in a 26% efficiency power system. The LifeTree's 11.9kW unit can be installed individually or in farms up to hundreds of MW.

Commercial Solar Power: **Beghelli** delivers turnkey photovoltaic/ lighting systems, sized from 32 kW up to multiple megawatts. We install UL Certified 285W, 15% efficiency solar panels and 3 Phase commercial inverters starting 15kW. Our solar panels come with a 25 year electricity production guarantee. **Beghelli's** PV/Integrated lighting systems not only provide a sustainable power plant while decreasing the energy footprints - maximizing the Return on Investment.

ProntoSole: **Beghelli's** off-grid solar power kits come fully equipped with all of the necessary parts in the box - from screws and bolts to solar panels and LEDs. **Beghelli's** Bus Stop Kit offers up to 70W of LED lighting for night time security and sign illumination. The highway lamp outputs 130W of power, which lowers the cost of remote construction and stays powered for up to four days without sunlight. When connecting to a power grid just isn't possible, **Beghelli's** 1500W remote living kits power refrigerators, lights, radios and more.

Beghelli Photovoltaic Investment Projects:

Melpignano 998 kW	Pomarico-2 499 kW
Spongano 997 kW	Monteveglia 475 kW
Turi 900 kW	Calizzano 450 kW
Foggia 750 kW	Pievepelago-1 287 kW
Pomarico-1 499 kW	Savigno 200 kW
Renzano 199 kW	Pievepelago-2 151 kW

In addition to our work on investment projects, Beghelli takes our time to build the same quality into our residential and small business market. Our Golden Roofs hybrid system has been installed in over 1,900 homes and business totalling 10,900 kW of power. Overall Beghelli, has been a part of 17,305 kW worth of solar power installations.





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Beghelli Life Tree

THE TECHNOLOGY

The high-tech Beghelli Lifetree is the result of numerous studies in various fields. It is just enough to highlight the individual components to obtain an overall picture of efficiency, innovation and reliability, for people and the environment.

Zenithal elevation engine



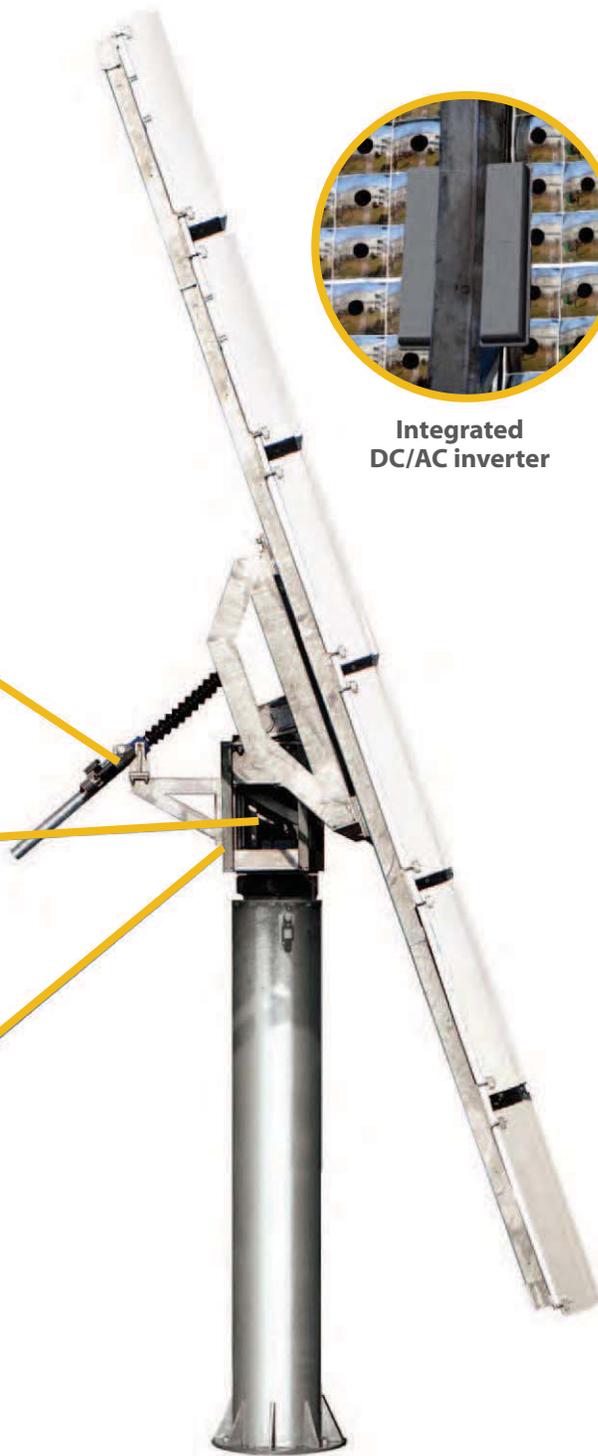
Azymuthal rotation engine



Control box
Includes engines and solar tracking control, monitoring system and alarm.



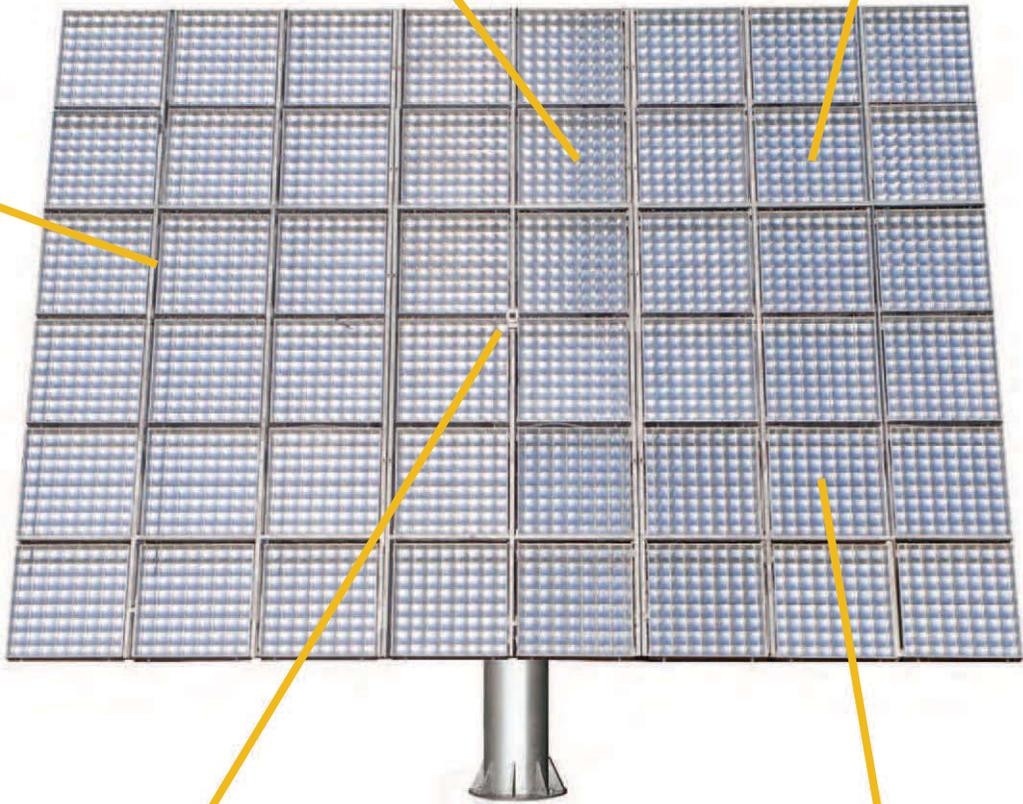
Integrated DC/AC inverter



Concentrating area



Single high concentration photovoltaic module



Solar camera
(part of the overall tracking system)



Aluminium heat exchanger



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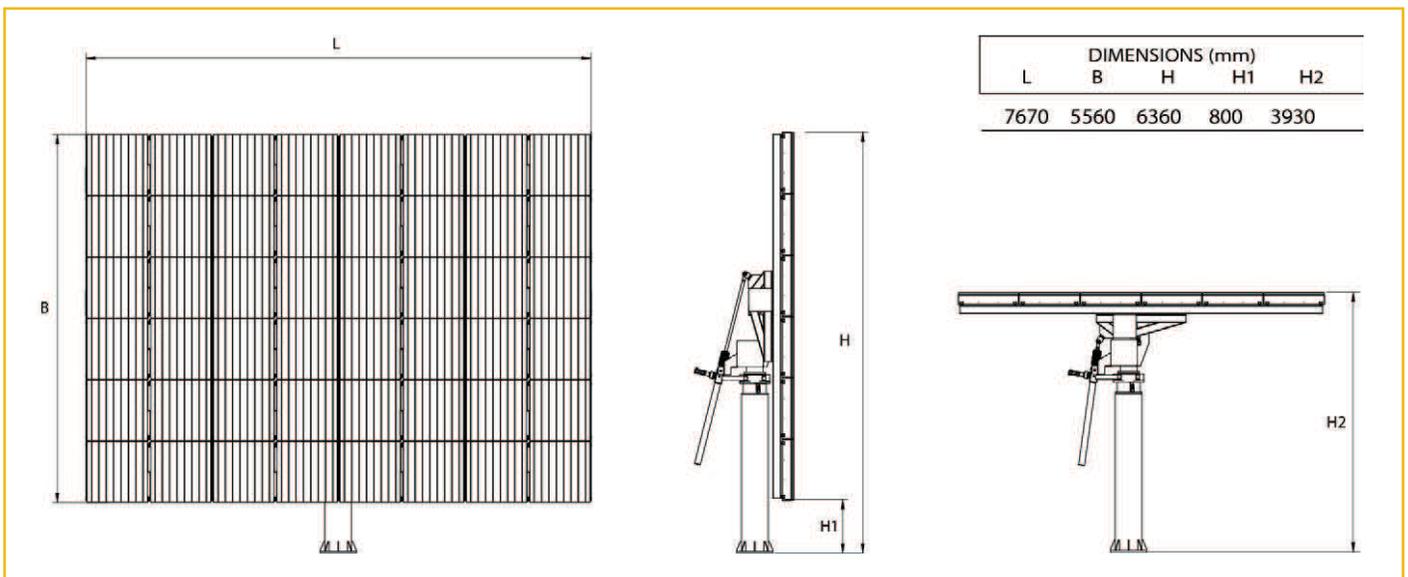


- Intelligent solar tracking system for application on the ground with the capability of 48 modules.
- Bi-axial tracking system handles both azimuth and zenith movements
- Electric brushless motors driven by integrated electronic control
- Size: 7670x5560 mm.
- Supporting structure in galvanized steel
- Modules are installed and lined up on the supporting structure from the manufacturer.
- Highly accurate bi-axial solar tracking (tracking error less than 0.1°)
- Weight 3900 Kg.

Like any high concentration PV generators the module must always be kept perfectly orthogonal to the sun rays. The Beghelli LifeTree solar tracker has an automatic control system that continuously keeps the system aligned to the sun with an angular accuracy better than 0.1 degrees. The system is designed for an operational lifetime of at least 20 years with minimal maintenance. The structure is galvanized steel and has been calculated to withstand the wind force up to 30 m / sec.

Each of the 48 solar modules is equipped with its own inverter. The modules are independent and therefore reduce the dangerous mismatching effect which would be inevitable if you use a single inverter.

Energy yield is the highest in all operating conditions. The optimal combination of information technology, electronics and mechanics ensure very high levels of accuracy at competitive costs.





Tracking system with solar camera



2 axis solar tracking structure equipped with azimuthal and elevation brushless motors

Technical Details

Material	Galvanized steel
Weight	2.364 Kg



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