

ECOPROGETTI

SPECIALIST IN PHOTOVOLTAIC
PRODUCTION PROCESS

PV MODULE MANUFACTURING SOLUTIONS

MACHINES FOR EVERY STEP OF THE PRODUCTION LINE



Examples of PV panel installations made with Ecoprogetti machines





Ecoprogetti Italy

Headquarters

TOTAL PRODUCTION AREA: 5000 sqm

SPECIALIZED IN MACHINES AND TURN-KEY LINES FOR PHOTOVOLTAIC MODULE PRODUCTION.

Ecoprogetti is the only 100% European company to design, produce and deliver complete turnkey solutions for the production of High Quality Solar panels. Founded in 1998 Ecoprogetti is among the TOP 5 photovoltaic machine manufacturers for worldwide capacity.

ECOPROGETTI NUMBERS & FACTS

+11 GW production capacity supplied worldwide

+100 Employees worldwide

+135 Turnkey production lines delivered

+30 Years experience in production technology

5 Service Offices worldwide



Ecoprogetti is an ISO9001 certified company

PV MODULE PRODUCTION LINES

EVERY MACHINE FROM ONE TRUSTED EQUIPMENT PRODUCER

SINCE 1998

Ecoprogetti has a long history of more than 20 years both in production process and production of machines, our portfolio of machines is complete, from the beginning to the end of the module production process.

YOUR PV PANEL IDEA, OUR EXPERTISE



From PV cells
to Tier-1 PV panels

MADE IN ITALY

All Ecoprogetti machines are engineered, assembled and tested in Ecoprogetti's HQ in Italy with the highest European standards and EU made components.



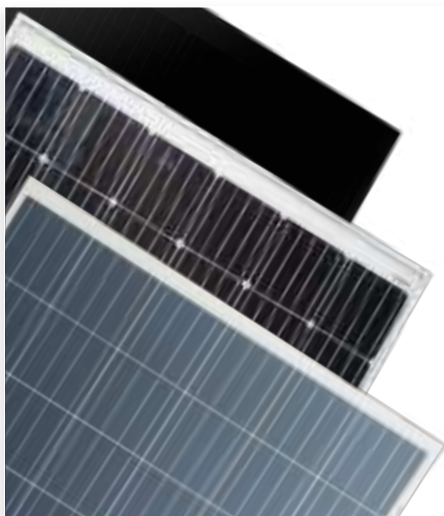
TECHNOLOGY INNOVATION

With extensive practical experience and with a dedicated R&D center Ecoprogetti can develop machines to work with the latest technologies on the market, such as bifacial sun simulators, shingling stringers, wire stringers, cut cells stringers, adhesive technology and much more.

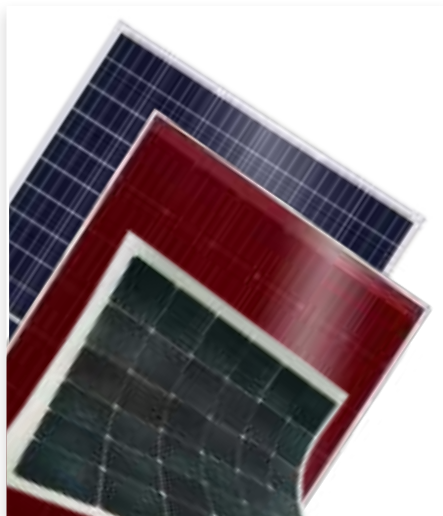


FROM THE IDEA OF THE BEST PV MODULE TO THE MANUFACTURING SOLUTIONS THAT WILL PRODUCE IT.

POLY/MONO CRYSTALLINE



CUT CELLS, FLEXIBLES, GG



BIFACIAL, HIGH EFFICIENCY



AUTOMATIC BUSSING

The newest Automatic Bussing machine manages and operates the soldering of the interconnections of your PV modules.



FULLY ELECTRIC LAMINATOR



300MW PV MODULE PRODUCTION LINE

COMPLETE SOLUTION FOR PV MODULE MANUFACTURING

300
MW/year
WORKING 24/7



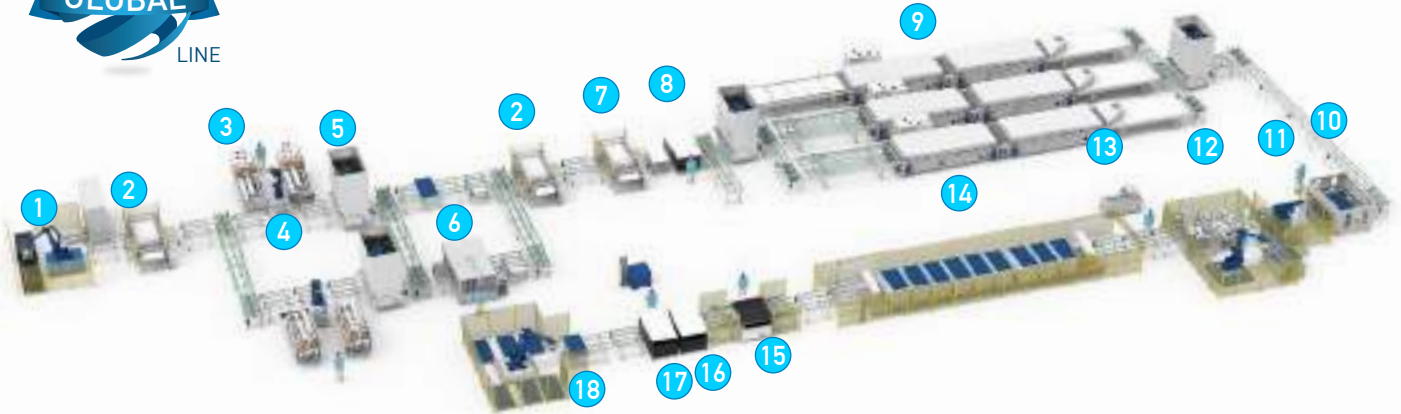
116
modules/h



8 operators
per shift



2000 sqm
production area
required


5.2
W/cell Mono



72 cells
per module



3 shift
of 8 hours



330
days/year



440
kW/h



6 bar
4000 nL/1'



- | | | |
|------------------------------|-------------------------------------|---------------------------------------|
| 1 Glass loader Robot | 7 Back-sheet Cutter & Placer | 13 J-box application |
| 2 EVA Cutter & Placer | 8 EL tester (pre-lamination) | 14 Curing tunnel |
| 3 Stringer machine | 9 Electric laminator | 15 LED Sun simulator |
| 4 String Layup Robot | 10 Auto Trimming | 16 EL tester (post-lamination) |
| 5 Storage system | 11 Visual Inspection 90° | 17 Hi-pot tester |
| 6 Automatic Bussing | 12 Auto Framing island | 18 Packing and Sorting |

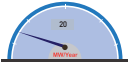


ECOPROGETTI MES, Ecoprogetti's Traceability System, from Order to Final product.

Consists in: Tracing of production orders, real time inventory management, real time machine status, raw material provisioning alerts, process parameters traceability, classification of panels, quality measures data collection, shipment orders data reference.

20 TO 45MW MODULE PRODUCTION LINE

45
MW/year
WORKING 24/7



19
modules/h



7 operators
per shift

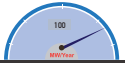


550 sqm
production area required



150MW PV MODULE PRODUCTION SMART LINE

100
MW/year
WORKING 24/7



58
modules/h



9 operators
per shift

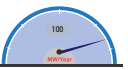


1100 sqm
production area required



150MW FULLY AUTOMATIC PV MODULE PRODUCTION LINE

150
MW/year
WORKING 24/7



58
modules/h



5 operators
per shift



1200 sqm
production area required



**FULLY
AUTOMATIC**





STRINGER MACHINES FOR YOUR PV PANEL PRODUCTION

Ecoprogetti tabber stringer machines allow to solder and assemble Solar cells together to compose the photovoltaic module.

ETS 4000 - Double lane 4000 cells/hour **NEW!**

COMPATIBLE WITH
5 - 6 - 9 - 10 - 12 BB

FULL CELLS
HALF CELLS

RUN 24/7

CELL SIZE
M2 M3 M4
M6 M10 M12
FOR ALL MARKET
AVAILABLE PV CELLS



FULL 6 BB SOLAR CELL



HALF CUT SOLAR CELL



EVO 3000 - Cut cells

HIGH FLEXIBILITY



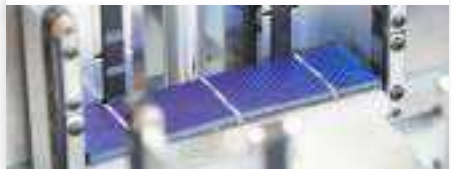
EXAMPLE
OF CELL
DIMENSIONS



ETS 700 - Highly Dynamic stringer machine

**CUT CELL
SOLDERING**

-  30mm
-  78mm
-  104mm
-  135mm
-  156.75mm
-  AND UP TO 161.75mm





COMPLETE TRAINING SESSIONS, FULL KNOW-HOW TRANSFER

We provide our expertise on solar module production, covering each step of the production, costs optimization and certification of the photovoltaic modules.
The training we provide guarantees that our clients will be able to produce High Quality Tier-1 PV modules.

We guarantee tailored consultation for any inquiry involving the making, enhancement, installation and certification of photovoltaic modules.

SERVICE WORLDWIDE, ALWAYS CLOSE TO YOU

Our Services:

- 360° Service & Support
- Innovative production solutions
- Complete trainings on production process
- Quality testing solutions
- Tailor made projects
- Raw material procurement
- Certification support
- Installation & Commissioning
- After sales support & Remote assistance



ECOPROGETTI'S AWARDS

- Intersolar Award 2018 with the 1st LED sun simulator for Bifacial modules.
- Gold award winner 2018 and 2019 as Manufacturing line Setup by Solar PV Module Tech India
- Winner of Award 2018 for Solar PV Equipment by Solar+Power Awards.

inter
solar
award





MONITOR YOUR PV PANEL PRODUCTION

Strict Quality control at every stage of the production process ensuring higher energy yields over a long life span.



Fully automated EL Tester



Automatic Cell tester



Fully automated A+A+A++ LED sun simulator



Automatic HI-POT tester



MANUFACTURING EQUIPMENT FOR SOLAR PANEL PRODUCTION



LED CELL TESTER



AUTOMATIC GLASS LOADER



TABBER STRINGER



LAYUP STATION



AUTOMATIC BUSSING



EL TESTER



EVA/BACKSHEET
FOIL CUTTER



HIGH CAPACITY
LAMINATOR



SILICONE DISPENSER



AUTOMATIC TRIMMING



AUTOMATIC J-BOX APPLICATOR



AUTOMATIC FRAMING STATION



VISUAL INSPECTION 90°

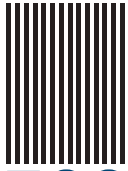


AUTOMATIC LED SUN SIMULATOR



AUTOMATIC PACKING & SORTING

ALL MACHINES ARE DESIGNED & MANUFACTURED IN ITALY 



ECOPROGETTI

SPECIALIST IN PHOTOVOLTAIC
PRODUCTION PROCESS

CONTACT US



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