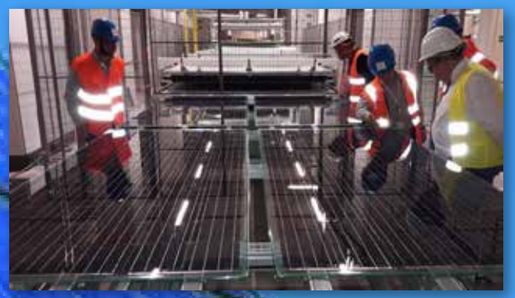
AMPERE

AUTOMATED PHOTOVOLTAIC CELL AND MODULE INDUSTRIAL PRODUCTION
TO REGAIN AND SECURE EUROPEAN RENEWABLE ENERGY MARKET



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Project Coordinator:3Sun (EGP) Italy

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3SUN / Italy
The PV Fab

CEA-Ines / France
Commissariat à l'énergie atomique et aux énergies

CNR / Italy
Consiglio Nazionale delle Ricerche

CSEM / Switzerland
Centre Suisse d'eletronique et de Microeletronique

ENEA / Italy
Italian national agency for new technologies, energy and sustainable economic development

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The renewable eletricity company

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Fraunhofer ISE / Germany
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Jonas & Redmann / Germany
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Norsun / Norway
The solar ingots & wafers

RISE Technology / Italy
PV equipment

SEMILAB / Hungary
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Horizon 2020
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IN EUROPE AT 3SUN FAB IN CATANIA-ITALY A NEW FULLY AUTOMATED 100MWP PRODUCTION LINE OF PHOTOVOLTAIC CELLS AND MODULES BASED ON SILICON HETEROJUNCTION TECHNOLOGY

www.ampere-h2020.eu

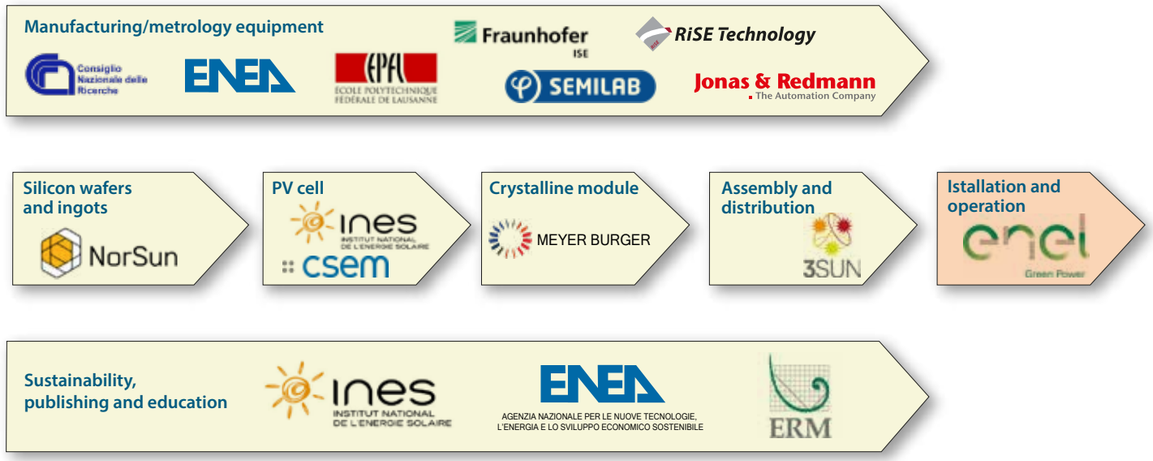
source: MBR

WHO

3Sun leads a consortium formed by 15 partners from 7 different European countries, including 9 industrial partners with 2 SMEs and 6 Research and Technology organization. The consortium covers the whole PV value chain.

WHY

Photovoltaic energy is becoming a pillar of the energy transition. The challenge is to develop innovative manufacturing solutions at competitive cost for the European PV industry and help to regain its leadership worldwide.

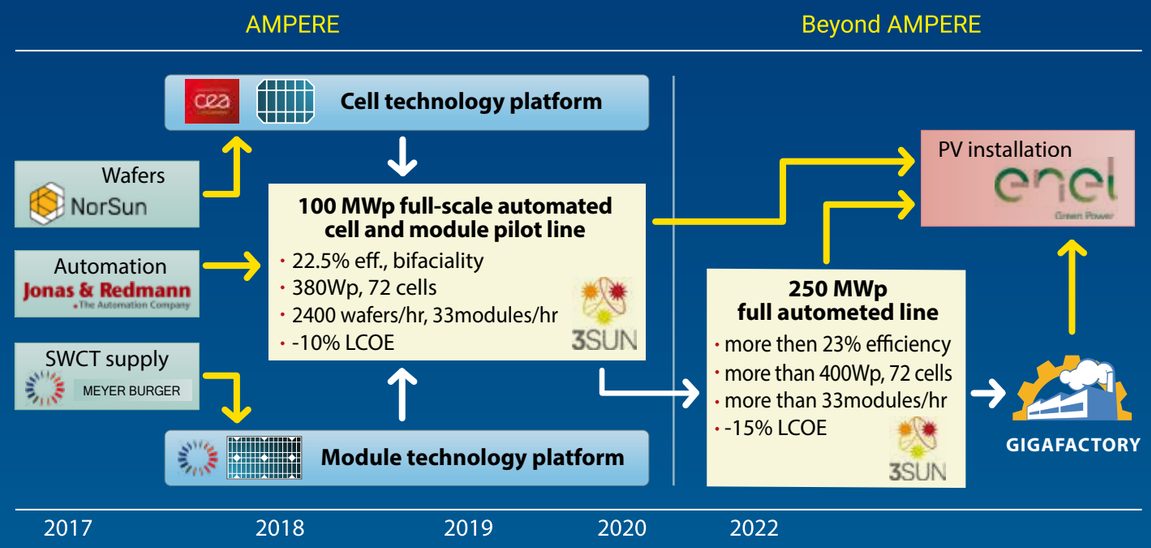


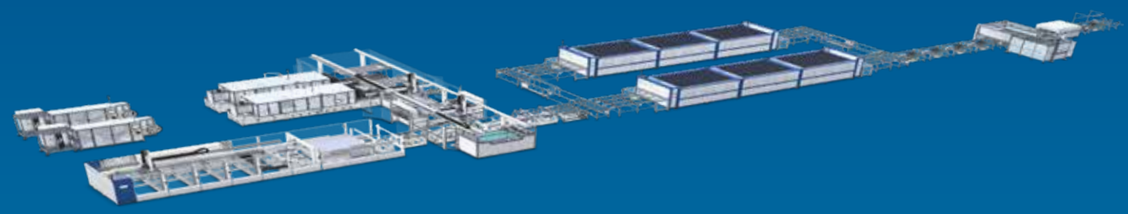
WHAT

The AMPERE final goal is the setting-up of a 100 MWp/y capacity full-scale automated pilot line to produce bifacial heterojunction silicon solar cells and modules. AMPERE will capitalize the previous European developments to reach the full-scale production level TRL 9.

WHEN

Started in May 2017, the three years project will demonstrate the technical, economic and environmental sustainability of the new technology. Successively the line will be scaled up to 250MWp/y; the project will deliver the roadmap for the GWp/y factory.





WHERE

Catania-Italy, at site of 3SUN; the company, owned by Enel Green Power, will convert its silicon thin film production line into the new industrial HJ technology with the objectives of more than 23% mean efficiency for cell and more than 400Wp power for module.

source: Ines

source: Ines

source: MBR