



Company Presentation

First Quarter 2023



Thin-Film Coating and Surface Treatment

State-of-the-Art Technology Provider Equipment Supplier for Thin-Film Coating and Surface Treatment



Photovoltaics



Semiconductor



Life Science

- Established: 1995 (Buyout at Merger Balzers/Leybold)
- IPO: 1997
- Employees: 297

- Research & Development
- Consulting
- Engineering & Design
- Project Management
- Production
- Installation
- Commissioning
- Service & Maintenance
- Hotline 24/7
- Training

Preliminary Figures for Q1/2023

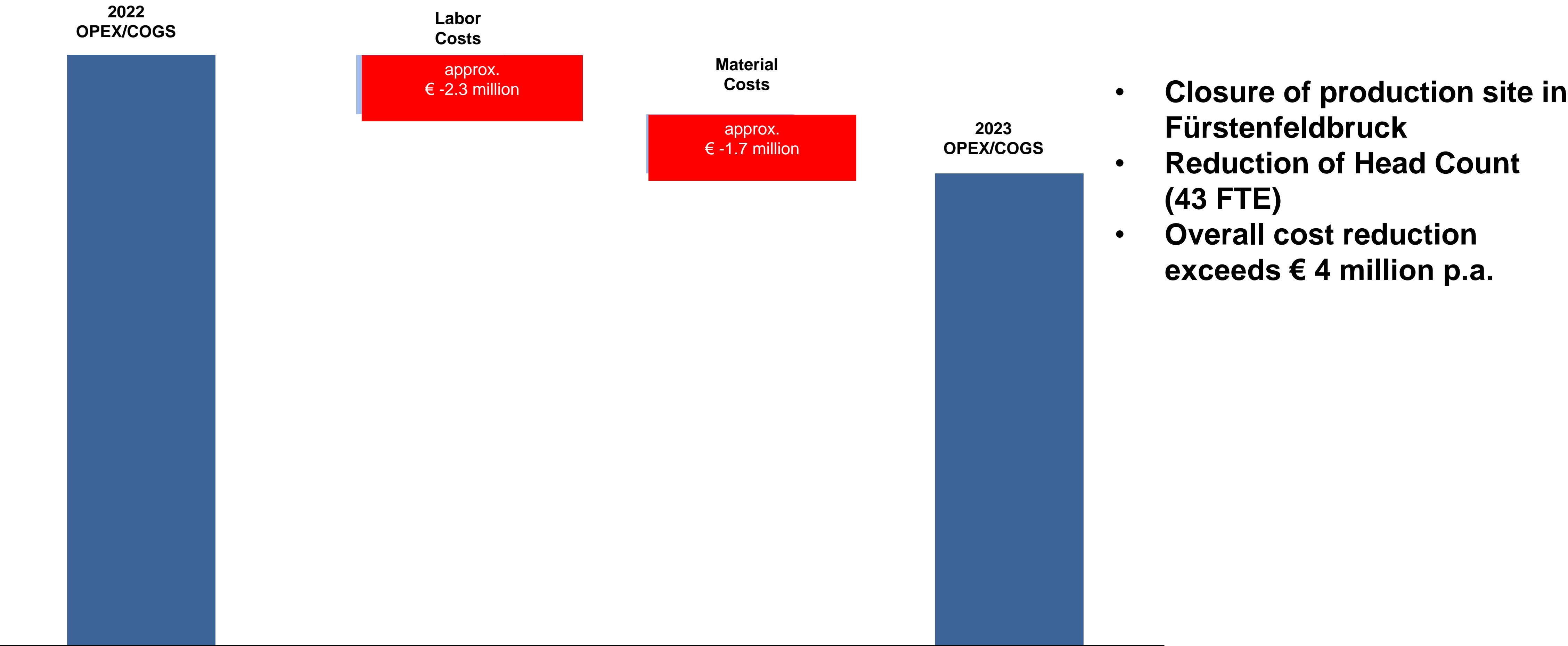
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First Quarter 2023

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<i>in million €</i>	Q1-2022	Q1-2023
Revenues	21.4	16.3
EBIT	0.1	-0.9
Order Intake	6.5	14.1
Order Backlog (31.03.)	107.2	82.6
Gross Margin	29.9	29.4
Headcount	342	297

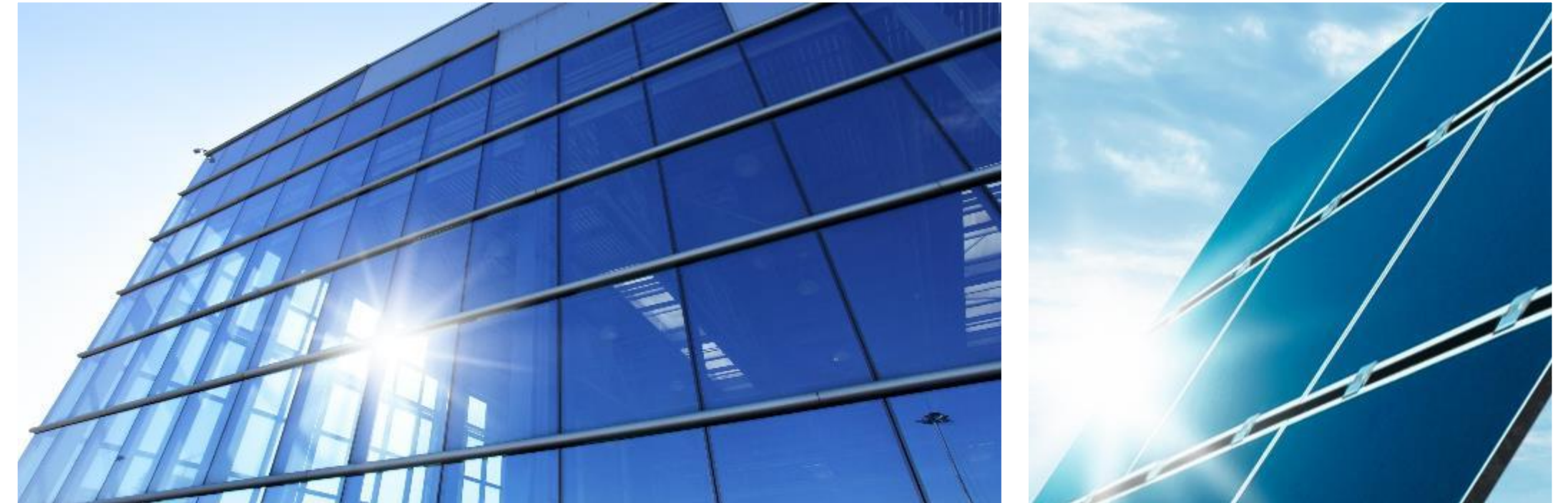
Cost Savings due to Re-Location of Fürstenfeldbruck Site



SINGULUS TECHNOLOGIES is Active in Both Areas: Crystalline & Thin-Film

Silicon Wafer Material – PERC, HJT, IBC, HBC, TOPCon and Tandem Solar Cells

- High cell & module efficiency
- Largest market share
- Advanced technology potential



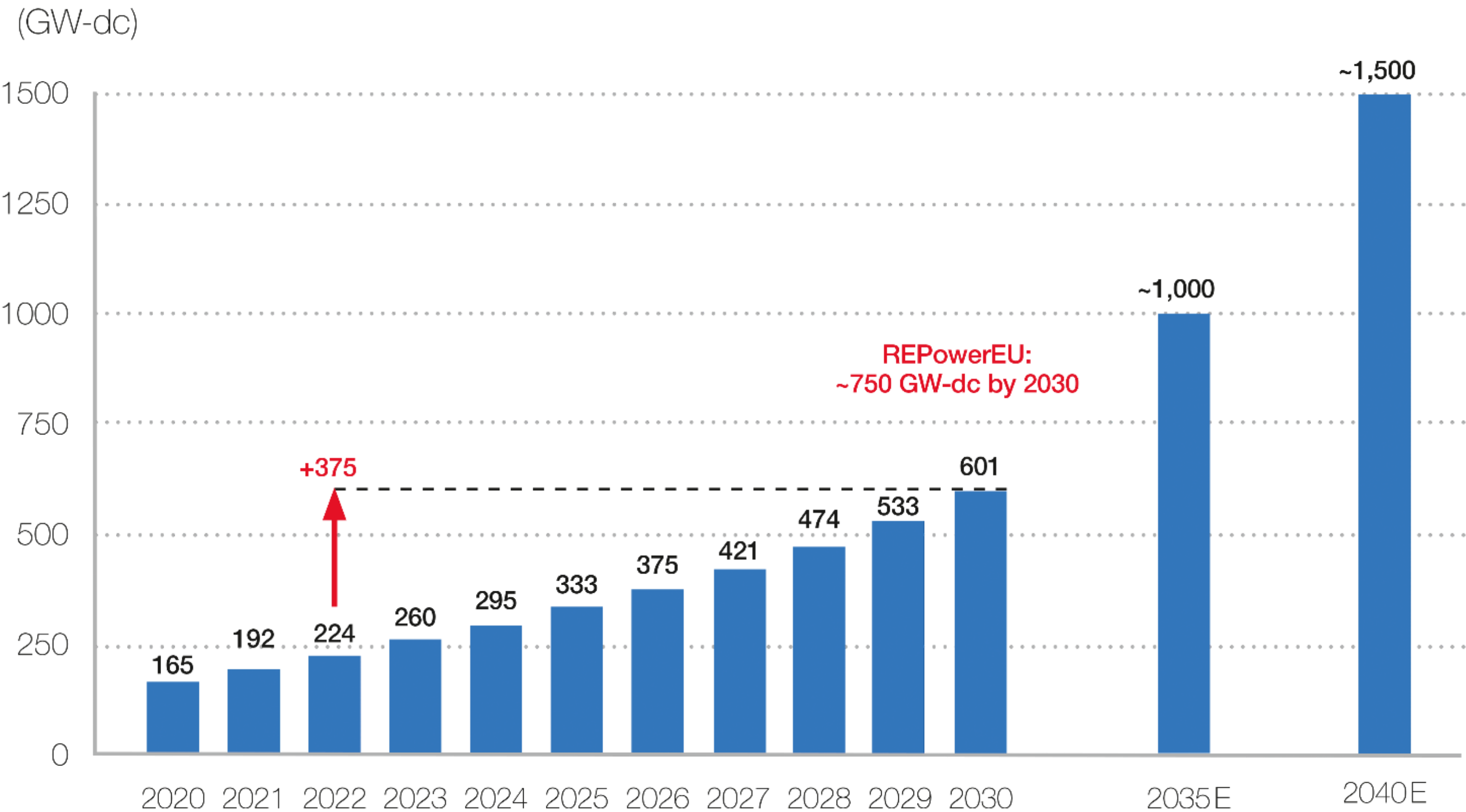
Thin Film Solar – Glass or Flexible Material – CIGS, CdTe and Perovskite Technology

- Excellent stability
- Good low light (including shade) performance
- Reduced sensitivity to overheating
- Full values chain in production
- Lower energy consumption in production (per Wp) versus c-Si



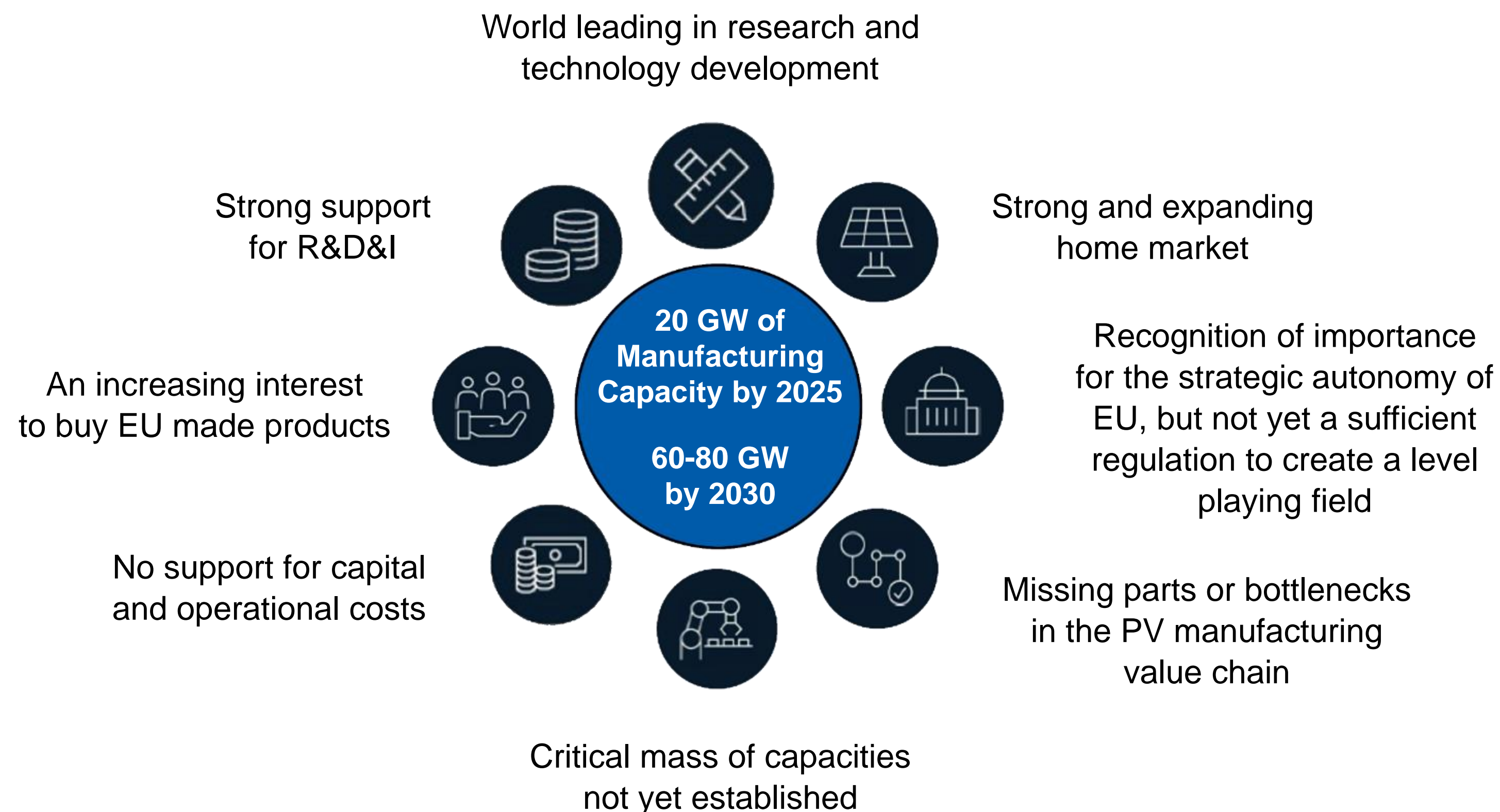
Europe has Committed to being a Climate-neutral Society by 2050

Cumulative Installed Base in Europe



Source:
"EU solar energy strategy",
Bloomberg; "REPower EU with solar:
The 1 TW EU solar pathway",
SolarPower Europe, March 8, 2022;
McKinsey analysis

Current Situation of the European PV Manufacturing Landscape 60-80 GW Capacity by 2030



“We need to bring manufacturing back to Europe, and the Commission is willing to do whatever it takes to make it happen.”

Kadri Simon
Commissioner for Energy

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Equipment Summary for PV Cell Production

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Thin Film Solar (CdTe, CIGS & Perovskite)



VISTARIS PVD
Vertical Large Area
Inline PVD Sputter System



HISTARIS PVD
Horizontal Large Area
Inline PVD Sputter System



CSS
Horizontal Large Area
Inline System



CISARIS RTP
Horizontal Large Area
Inline RTP System

Crystalline Solar (HJT, Topcon, Tandem, IBC, PERC)



GENERIS PVD
Multi Substrate
Inline PVD Sputter System

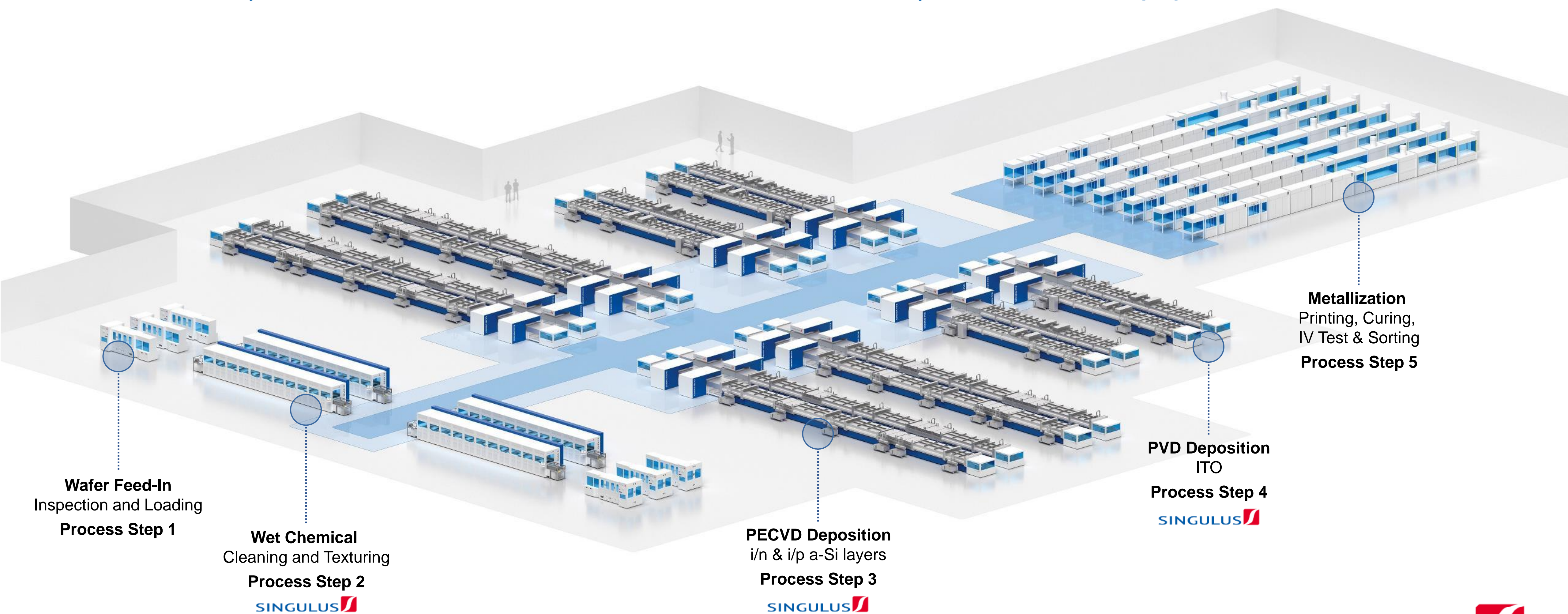


GENERIS PECVD
Multi Substrate
Inline PECVD System



SILEX III
Wet Processing System

Schematic Layout of HJT Solar Cell Production Line with Key Production Equipment



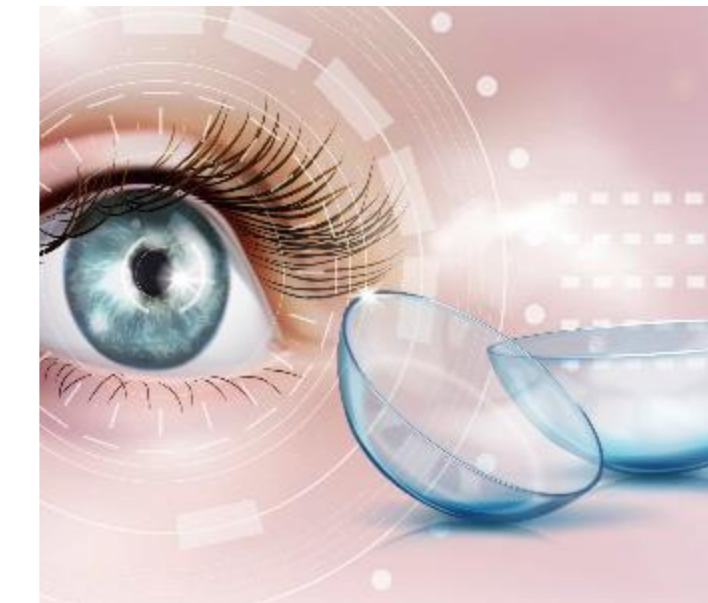
MEDLINE Wet Chemical and POLYCOATER Sputtering

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Production Systems for Medical Technology Following GMP



Inline Production System for Sustainable Coating and Lacquering of 3D Parts

With Cleaning, Lacquering & Sputtering SINGULUS TECHNOLOGIES Offers all in Solution for Production



Green Metallizing



Chrome (VI)-free



Cost Effective



Reliable Process



Sustainable Process



TIMARIS

Cluster Tool Family for Semiconductor & Magnetic Industry

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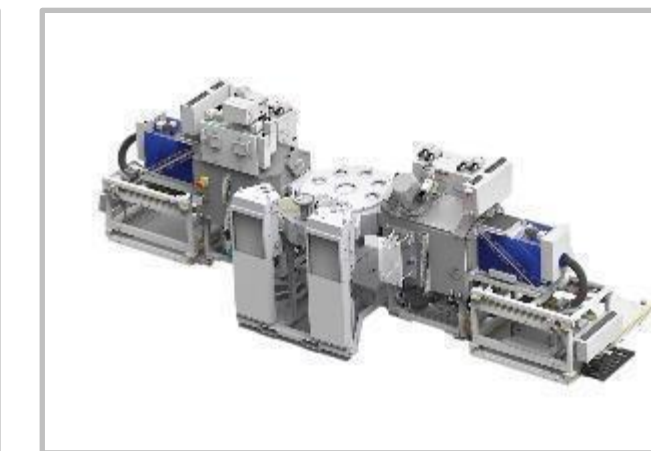
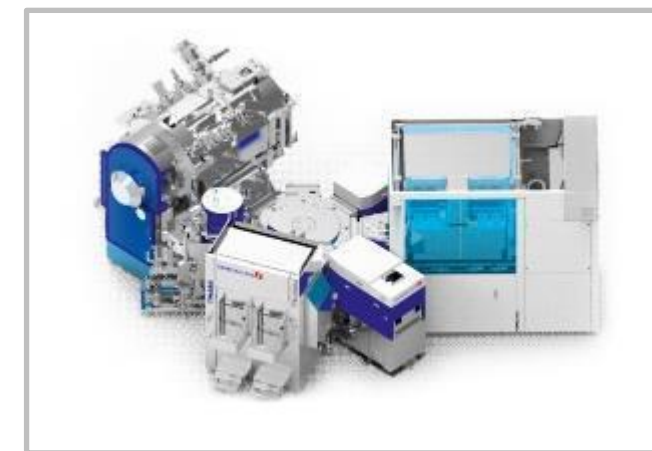
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SINGULUS TECHNOLOGIES

is a renowned Manufacturer of Advanced Thin-film Deposition Equipment for Magnetic Sensors (TMR, GMR, AMR), Integrated Inductors, MRAM, μ LED, Advanced Packaging (RDL/UBM), Interconnects, and other Semiconductor Applications.



SINGULUS TECHNOLOGIES – Innovations for New Technologies

Markets



Photovoltaics



Medical
Technology



Glass/
Automotive



Semiconductor



Packaging
Industry



Battery/
Hydrogen

SINGULUS TECHNOLOGIES starts new Business Area: Vacuum Deposition for Application in HydrogenTechnology

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The Use of Hydrogen only makes Ecological Sense if it is about “Green” Hydrogen

For global climate protection and the limitation of global warming to well below 2 °C, the global energy systems must reduce the proportion of fossil fuels in the energy mix to a minimum.

Hydrogen offers a great potential for the electrolysis, industrial and transport sectors and, also in electricity generation.



H₂
Hydrogen

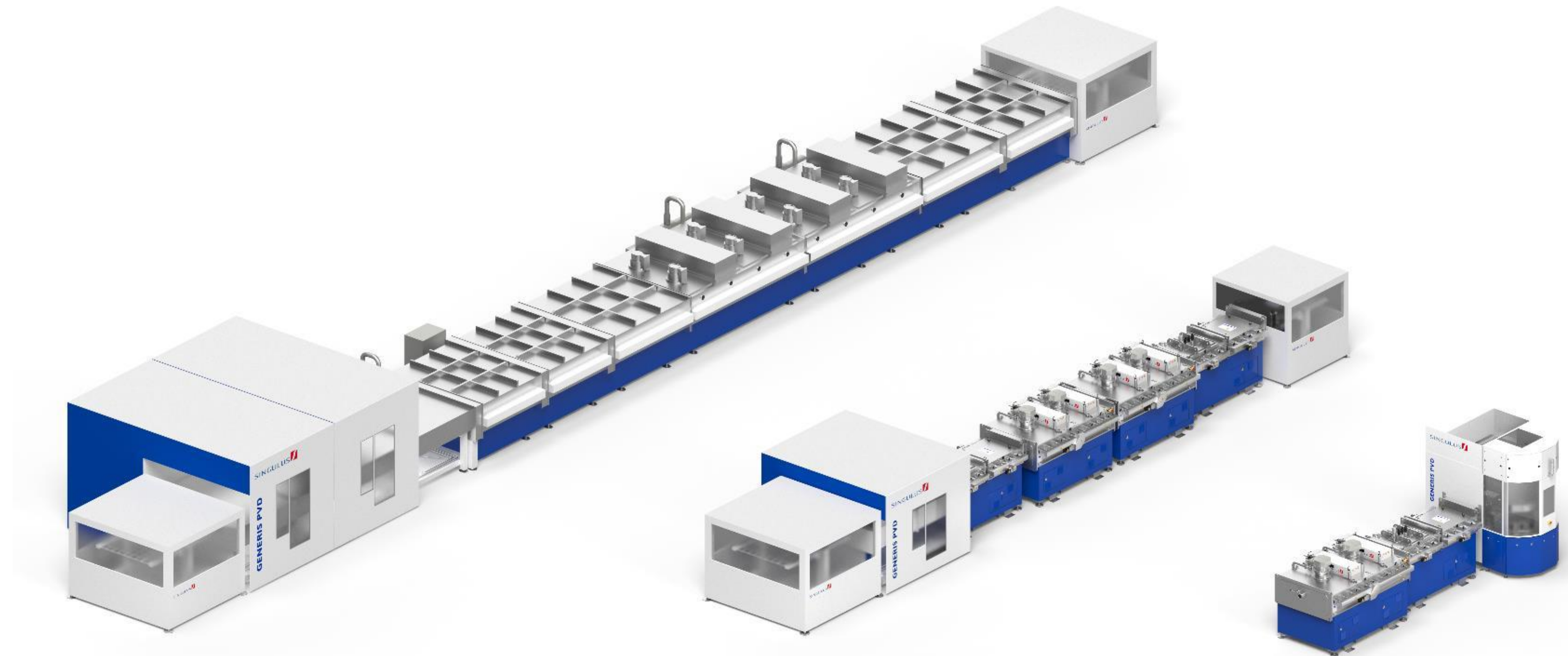
SINGULUS TECHNOLOGIES is Partnering with Large Players in the Market



Industry: Chemistry, Steel, etc.



Mobility, Cars, Busses, Transport





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