



FUSION BIONIC



The good, the bad & the ugly


Demand for CleanTech surface solutions




Fusion Bionic technology

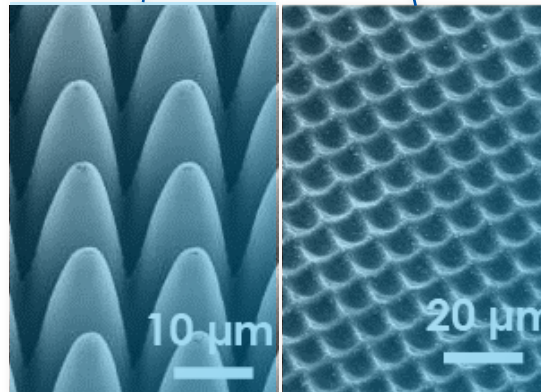
Ultrafast laser surface finish

How we innovate

 Direct functionalization of surfaces

 Environmentally friendly

 Scalable and integrable in production lines



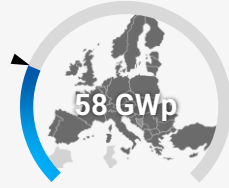
Scenario: Anti-Soiling

ESTIMATION OF MARKET SIZE

NEWLY INSTALLED PV CAPACITY (2023)



Ø Soiling loss:
>0,24% / day



Ø Soiling loss:
>0,38% / day



Ø Soiling loss:
>2,5% / day

Cost reduction

Reduce solar cell soiling to boost efficiency and revenue.

4 – 8 %
Energy enhancement

Protected

Surfaces and structuring technology protected by patents

>25 patents
Granted and applications

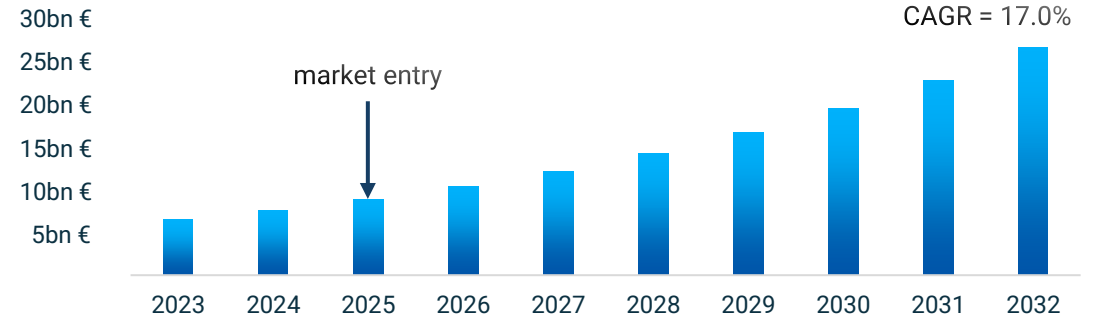


Newly Installed PV Capacity (2023) in markets

Region	New Capacity
Worldwide	413 GWp
EU	58 GWp
CN	217 GWp
US	36 GWp
Sum rel. markets	311 GWp

POTENTIAL AREA AND REVENUE

Calc. area rel. markets 1,95bn sqm
Revenue in rel. markets 2023 5,9bn €



How to structure the solar market

Overview

Three growth models by 2033:

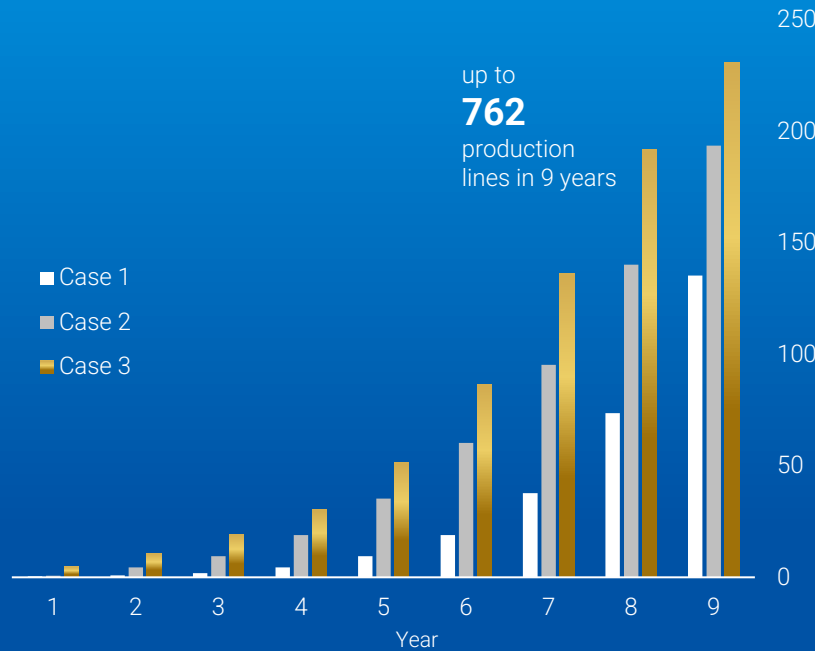
Case 1 – conservative growth path:
New technology create its own market segments.

Case 2 – mid growth path:
Substitution technology in existing market.

Case 3 – accelerated growth path:
Partnering with strategic player with established market presence and expertise.

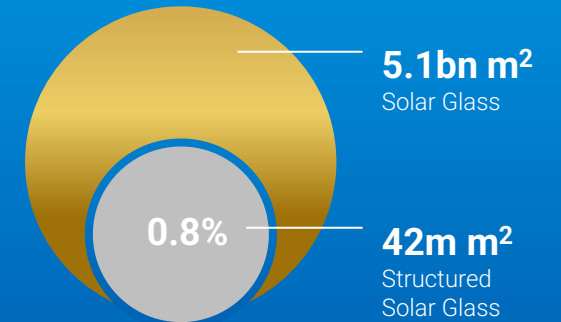
Production line sales planned¹⁾

2025 to 2033



Solar Glass Market

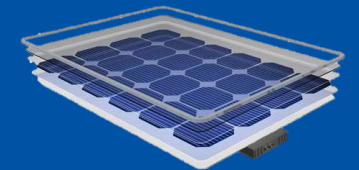
2029



Monetization Strategy



Ultrafast laser glass sheet processing machine



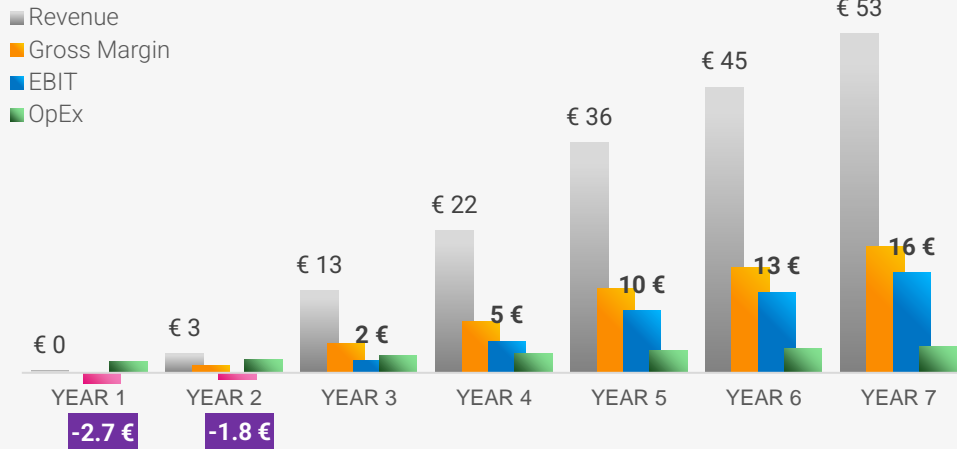
Licensing model (per m²)

1) The market forecast scenario follows a thorough analysis of the market (newly installed capacities 2023) and the patent landscape: CN, US, EP regions, 2025-2033, 17% CAGR, 2% achievable maximum share, 9% annual discount rate.

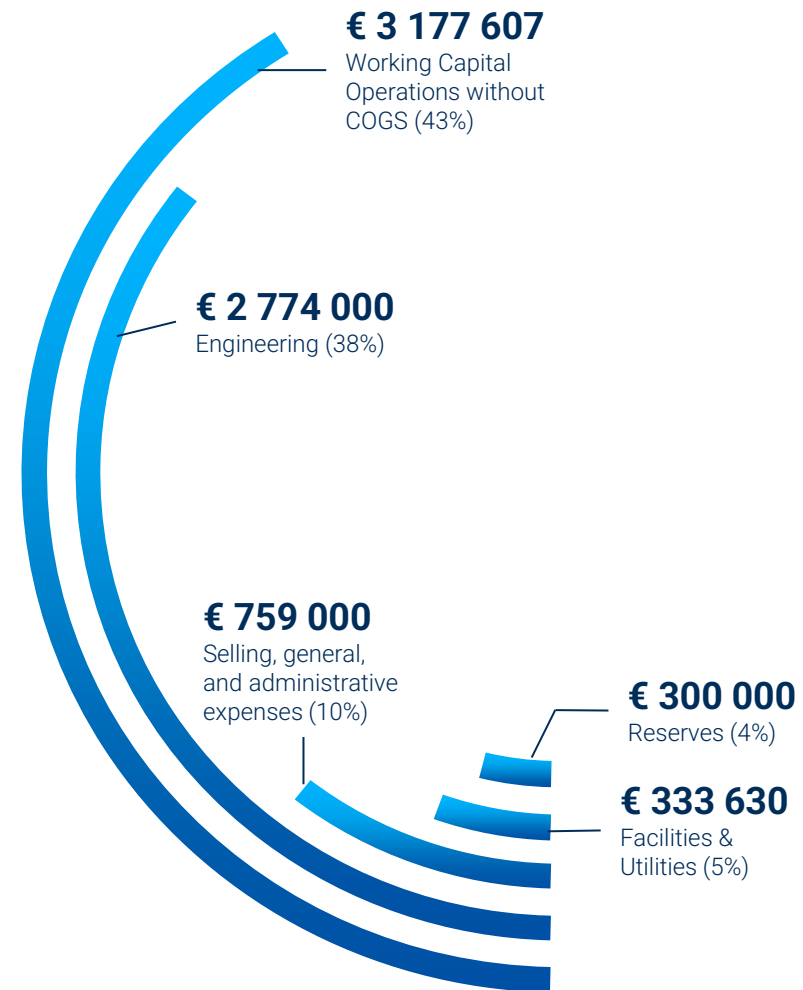
Fusion Bionic – Investment case

Ready to grow

Profit and Loss (€m) – Conservative growth path



Total capital required

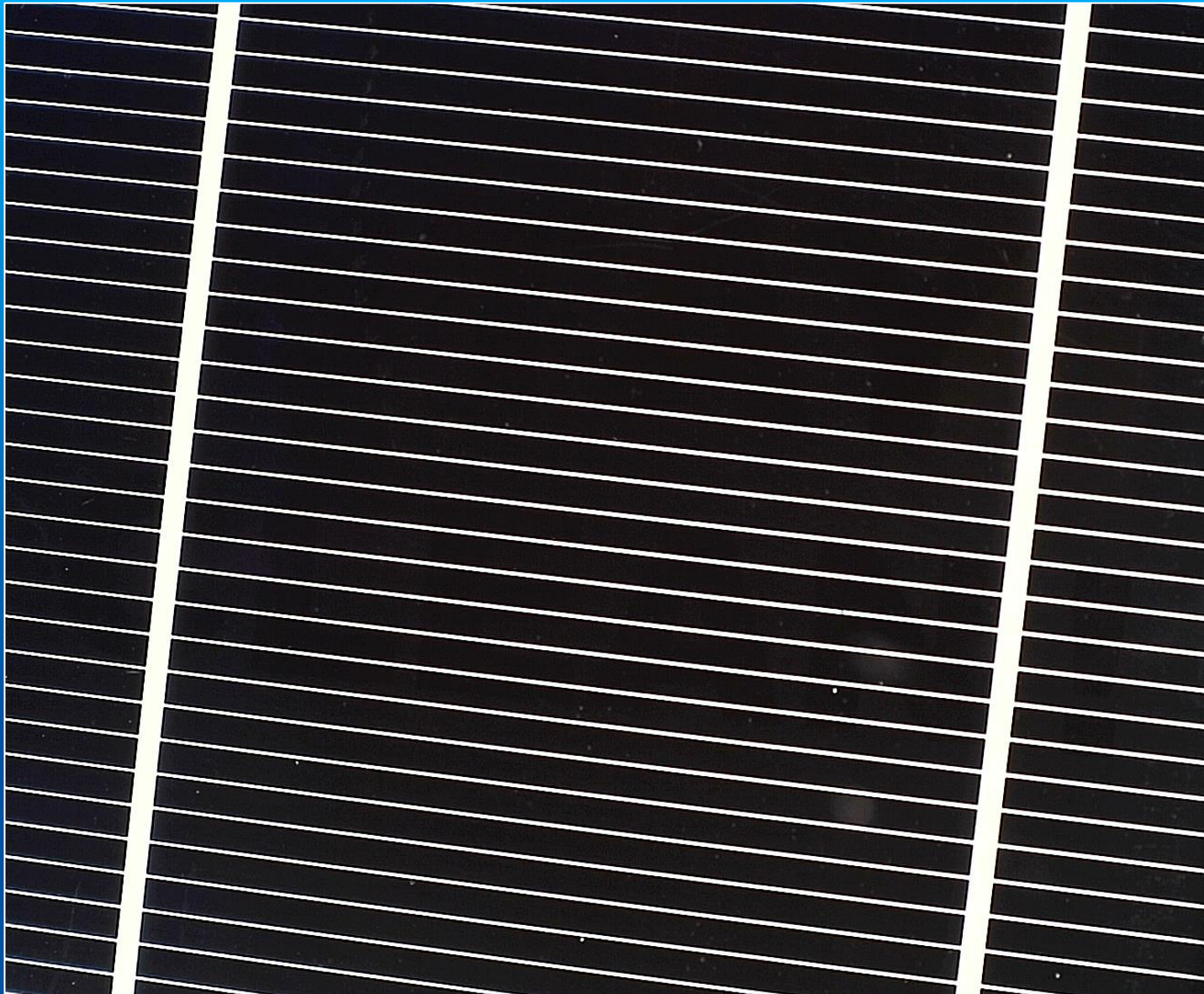


Funding secured



Funding request





Dr. Tim Kunze
Managing Director



Dr. Sabri Alamri
Head of Technology



Benjamin Krupop
Head of Engineering



Laura Kunze
Chief Financial &
Operation Officer

Founders

Fusion Bionic

In a nutshell



Selected Customers

Heraeus

SAMSUNG

Boston
Scientific