

# EverCleanGlass

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## Start-Up Presentation



EVERCLEANGLASS  
*inspired by nature*

- Confidential -

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# Our Mission:

Always clean windows for architecture and photovoltaics.



# The Problem:

Dust requires periodic cleaning.

Dust reduces the module efficiency in photovoltaics.

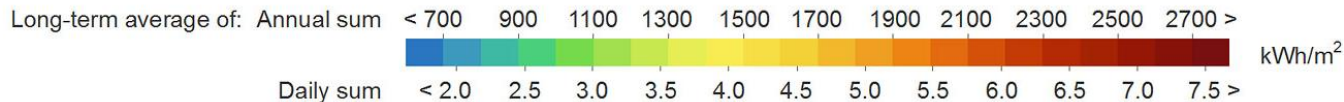
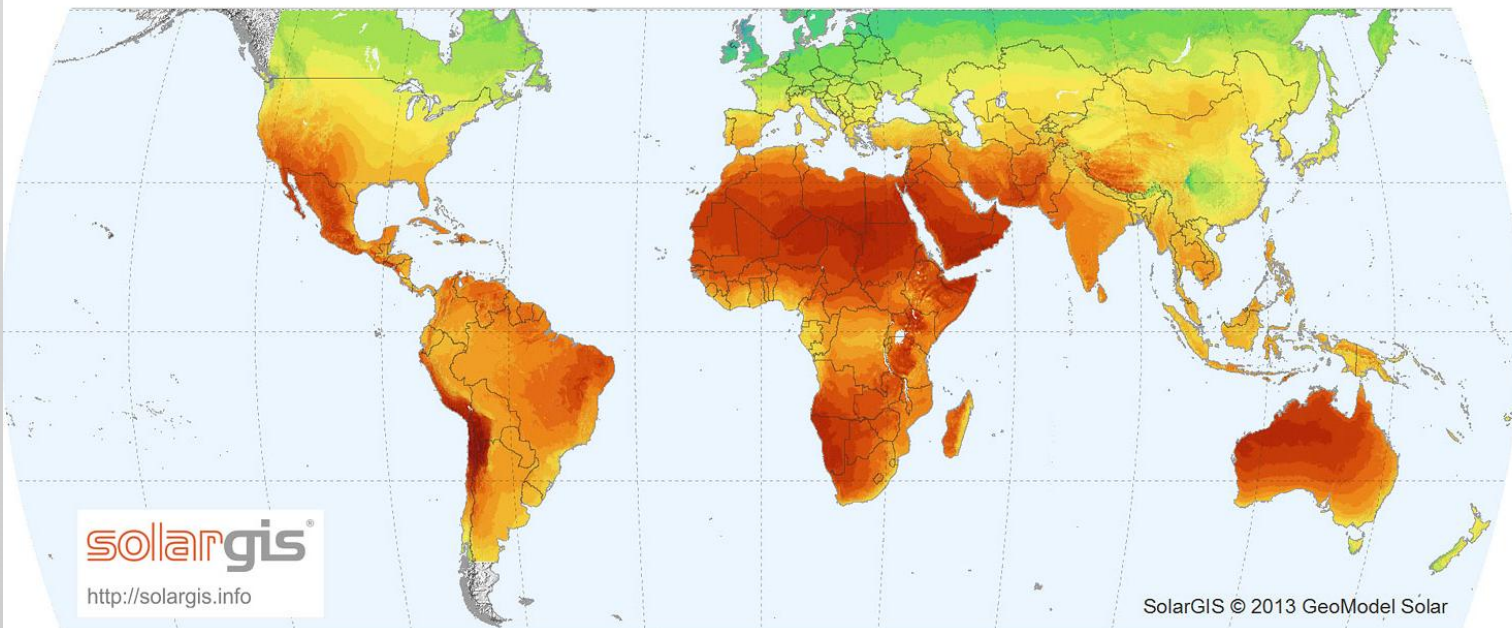


## WORLD MAP OF GLOBAL HORIZONTAL IRRADIATION

Dust/soiling is a global problem for solar energy.

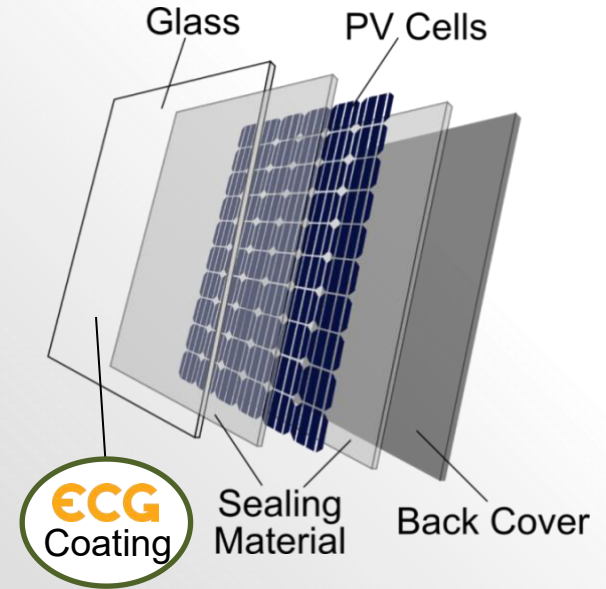
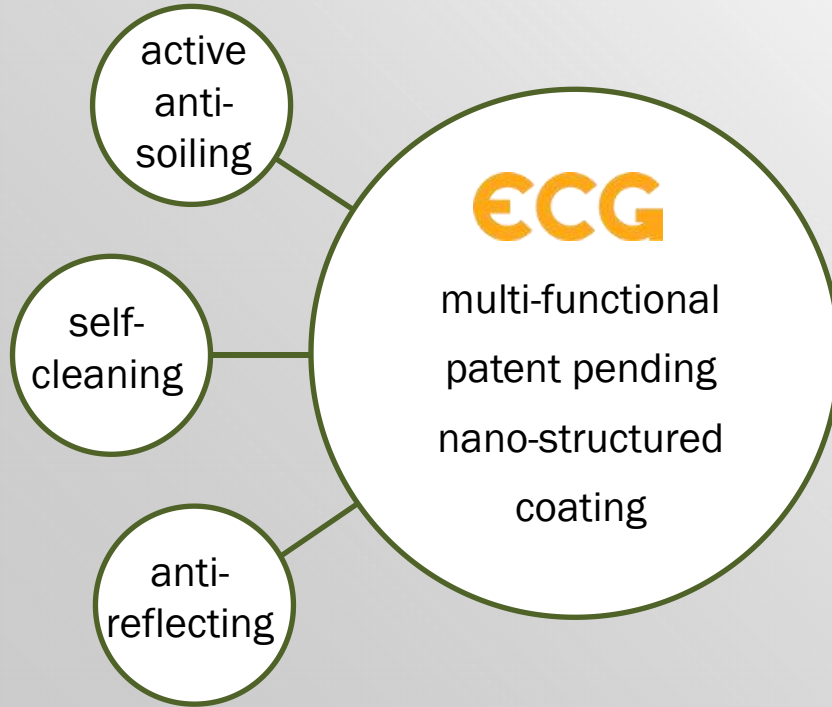
The highest amount of sun energy (shown in orange/brown) is falling on earth in dusty desert areas:

Middle East and North Africa (MENA), Australia, Middle and South America, South USA, India and China.





# Our Solution:



# Opportunity:

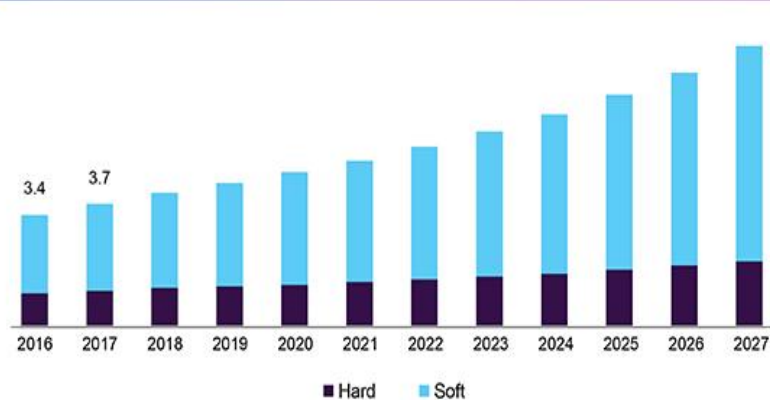
## Our Technology:

- Disruptive coating technology
- Ultra low-cost non-vacuum process
- High mechanical and chemical robustness
- Current focus is on photovoltaic (PV), but our technology can easily be adapted to architecture and transportation

## The Market:

- Forecasted exponential growth of the glass coating market (see US example)
- Strong forecasted growth of PV industry, also outside of China

U.S. coated glass market size, by coating, 2016 - 2027 (USD Billion)



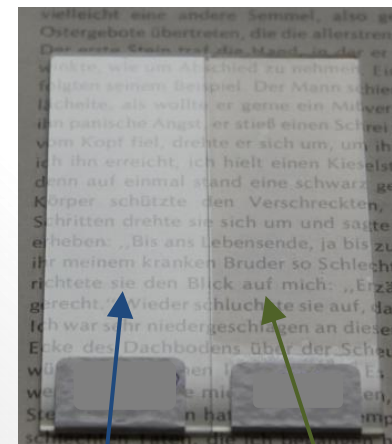
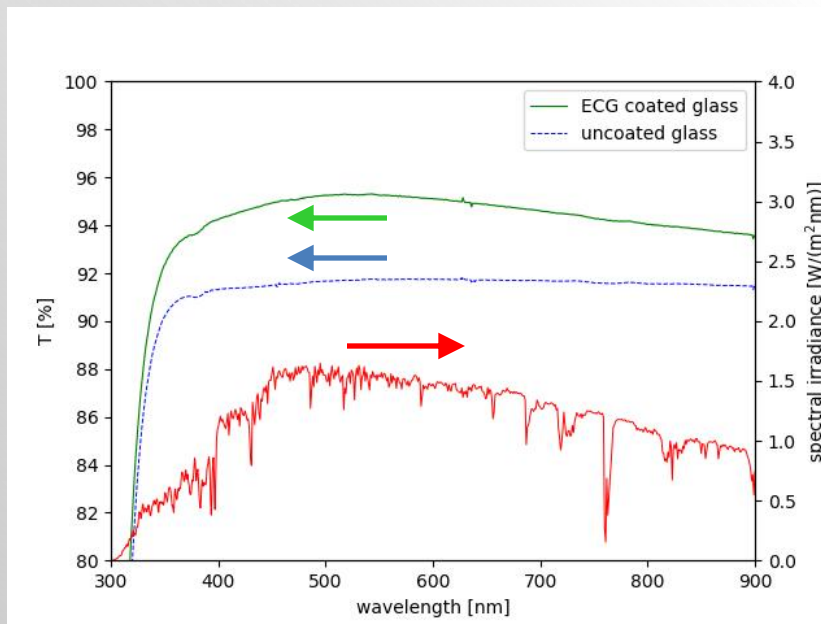
Source: www.grandviewresearch.com

# POC 1: Anti-Reflection (AR)

Transmittance spectra of a glass sheet with **ECG coating** on **one side** (solid green) and an uncoated reference glass (dashed blue), showing a transmittance enhancement over a broad spectral range.

The peak of the solar irradiance (solid red) is in the same spectral range where the coating shows the strongest AR effect.

Anti-Reflecting Effect!



Uncoated glass slide: The text is difficult to read due to optical reflection.

Glass slide with ECG coating on the top surface: Good visibility of the text beneath due to anti-reflecting effect.

# POC 2: Anti-Soiling Lab Test





# POC 3: Anti-Soiling Field Test

uncoated glass

ECG coated glass

Light scattering from dust particles that accumulated onto the uncoated glass surface



Clear view from the glass backside into the sky due to the absence of light scattering on dust particle

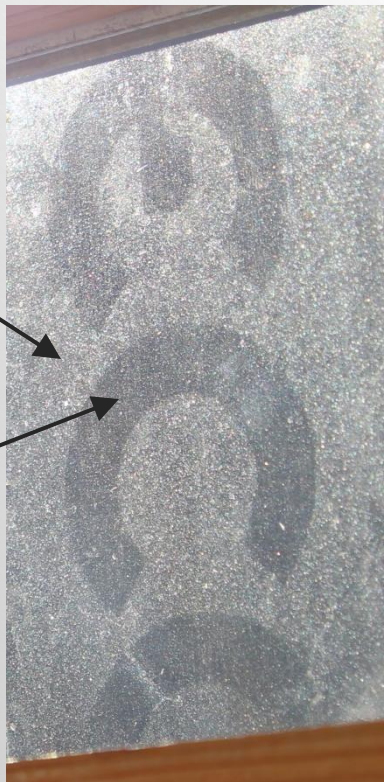
Water-Free  
Anti-Soiling  
Effect!

4 weeks exposure to atmosphere on a roof in Tel Aviv, Israel.  
No rainfall and no manually cleaning.

# Inkjet Printed Coating:

Hazy appearance of the uncoated reference area due to light-scattering of dust particles.

Inkjet-printed anti-soiling and anti-reflective coating in the shape of the ECG logo, is showing substantially reduced dust accumulation.



2D  
Resolution  
by Inkjet  
Printing

Water-Free  
Anti-Soiling  
Effect!

The photograph was taken after 4 weeks exposure to atmosphere on a roof in Tel Aviv, Israel. During this time there was no rainfall and the glass sheet was not manually cleaned by any means.

# In Summary:

- EverCleanGlass (ECG) is an Israeli-German technology startup that develops novel multi-functional coatings for the booming photovoltaics (PV) market
- ECGs glass coatings are based on its disruptive patent pending coating technology
- ECG coating technology can produce glass coatings at 50% lower cost
- The global glass coating market size in 2019 was 30 billion USD, showing exponential growth
- We are looking for funding to finalize development and start selling to the PV market
- Furthermore, we will add more functionality to the coating (e.g. adding anti-viral properties to combat Covid-19) and extend its application to architecture and transportation

