

DMEGC SOLAR - PFAS-free solar modules

Q3 2023

CONTENTS

01

Introduction

02

Sustainability

03

PFAS-free

Introduction of DMEGC Solar

14 GW

Cells Capacity

12 GW

Modules Capacity

30 GW+

Cumulative Shipments

Founded in 1980, DMEGC Solar is committed to be the world's leading renewable energy company, possessing five manufacturing bases with an annual capacity of 14GW cells and 12GW modules, and cumulative shipments are over 30GW.

With industry-leading technology R&D, manufacturing technologies, quality management and service, DMEGC Solar provides high-efficiency and reliable PV products and all application solutions for global customers.

- Top 10 PV Module suppliers in 2022 (PVTECH)
- Bloomberg "Tier 1 Solar Panels Manufacturers"
- EUPD Research "Top Brand PV Modules" since 2018
- Top Performer in PVEL PV Module Reliability Scorecard
- Leading Altman-Z score ranking in Global Solar Industry



Vision and Mission

Vision

To be the most
socially responsible
enterprise

Value

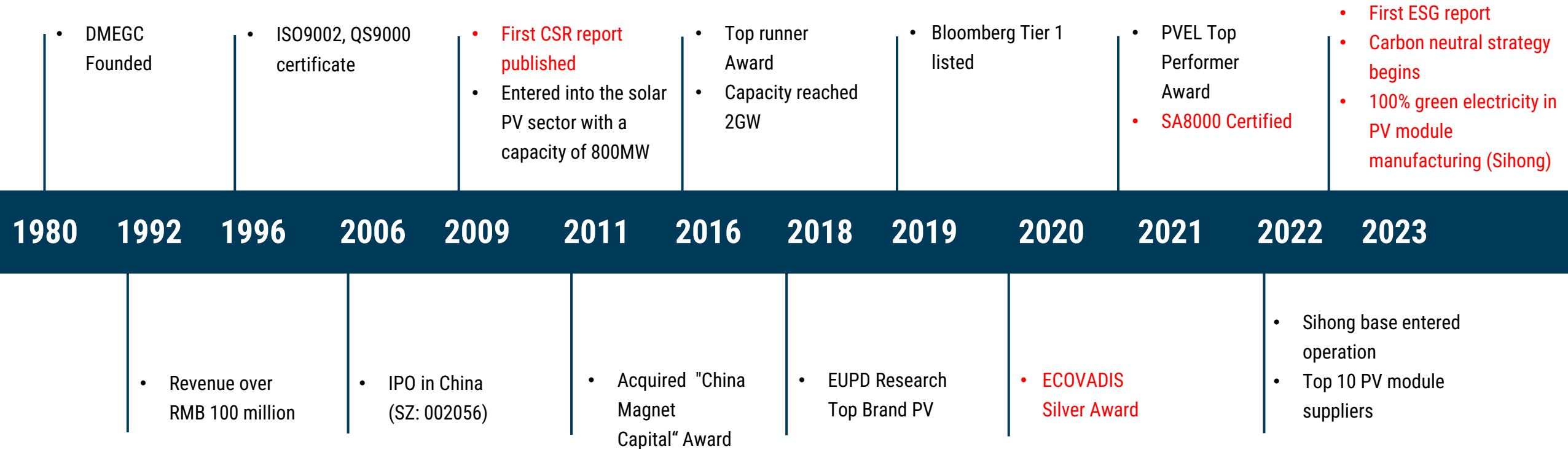
Co-creation, co-
ownership,
co-prosperity and co-
sharing

Mission

Take root in Hengdian,
march into the world

ESG Milestones

- Focused on innovation and high quality manufacturing for 44 years ;
- Committed to be the world’s leading enterprise of the most socially responsible renewable energy solutions provider.



ESG Strategy

- According to the UN SDGs, we start with five sectors to improve the level of sustainable development.
- We are willing to jointly work with all partners to reduce the energy cost and build a green, low-carbon, beautiful world.

1

Establishing a Sustainable Company

By establishing a scientific and efficient decision-making mechanism, we promote the healthy, stable and sustainable development of the company.



2

Protecting Green Environment

We have established a fully environmental management system to reduce our carbon emissions, combating the challenges of climate change.



3

Creating Value for Customers

We innovate from customer's perspective to ensure products lead the industry in efficiency, performance and quality, maximizing customer value.



4

Strengthening Supply Chain Management

We integrated the sustainable development into supply chain, continuously reducing the environmental and social risks of the overall industry chain.



5

Creating a Better Society

Abide by labor laws and policies, we strive to build harmonious labor relations and share the development achievements with employees and society.



Production Traceability

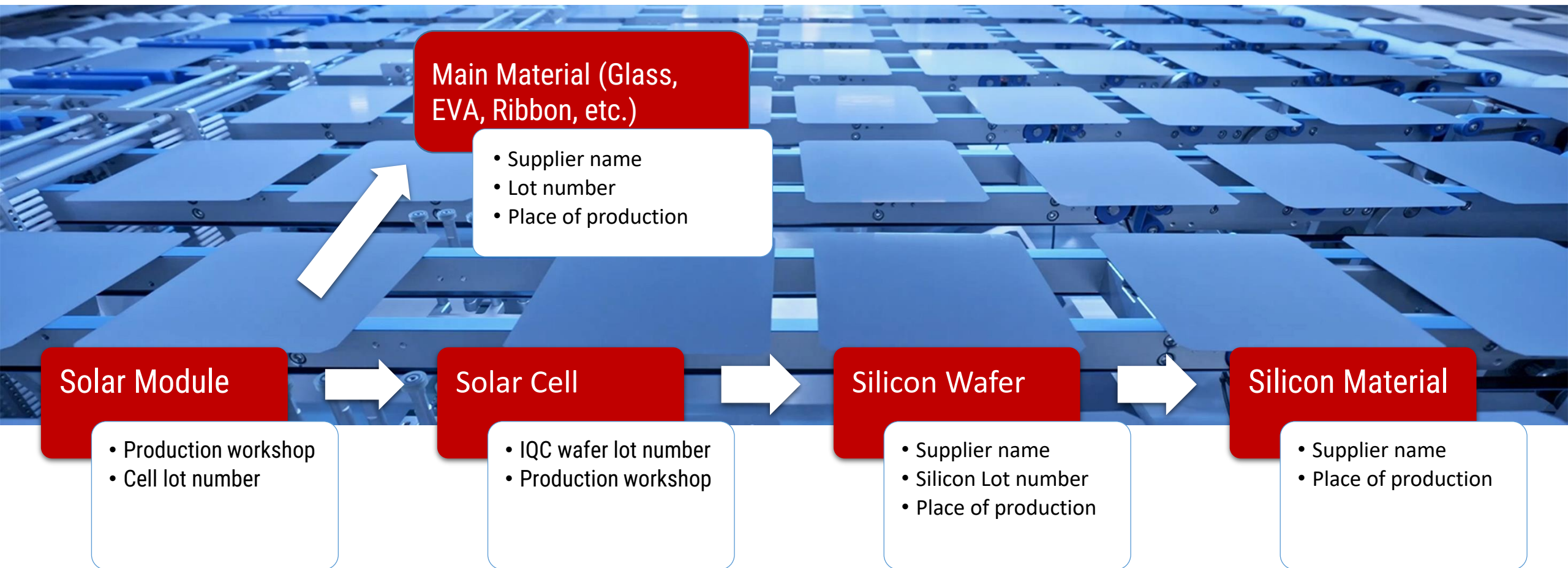
Warranty partner

Munich RE



SolarPower
Europe
Member

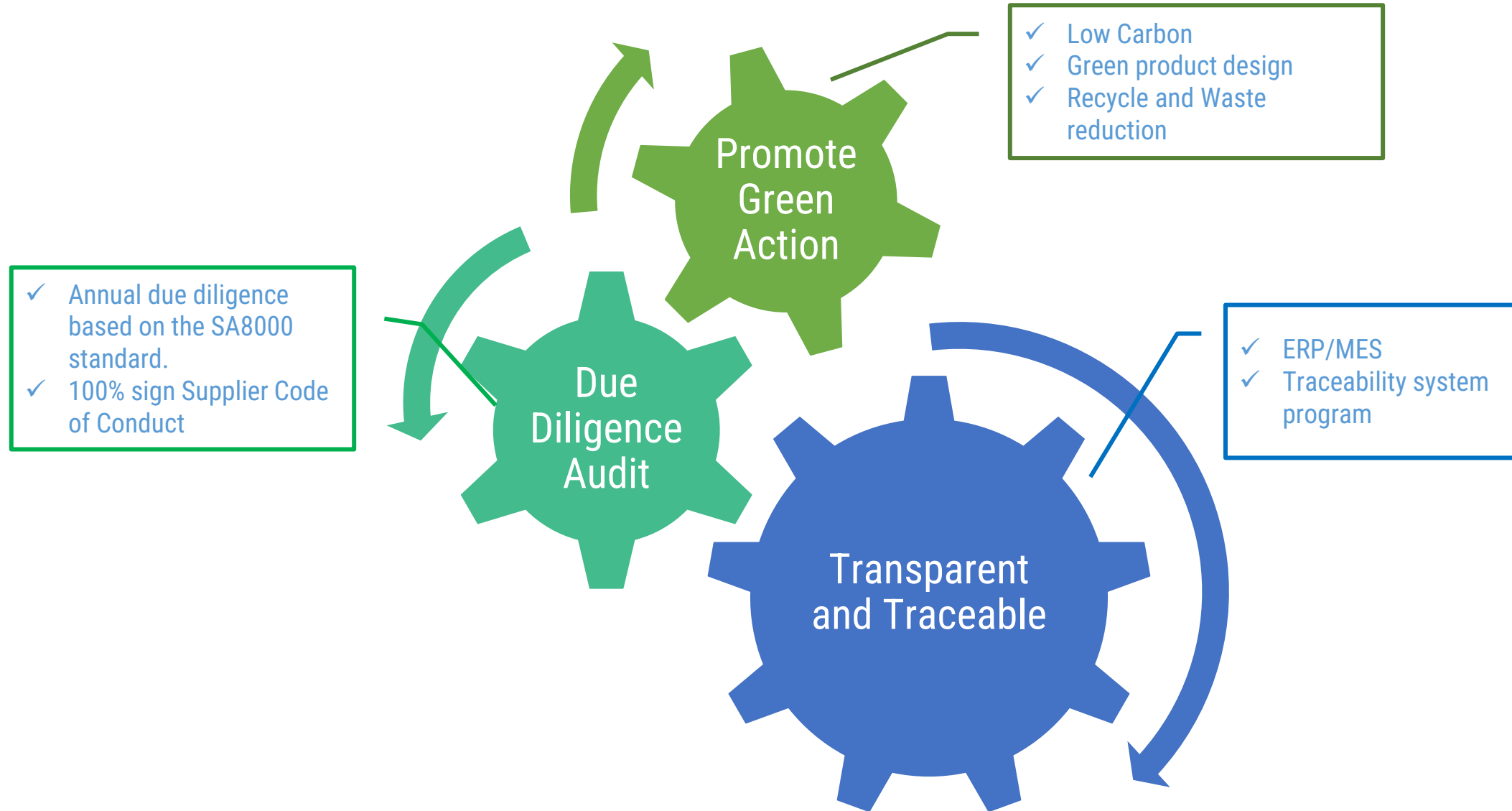
DMEGC
S O L A R



- Total process tracking from SG-Silicon to module production
- DMEGC is **SA 8000** certified and material suppliers also under evaluation

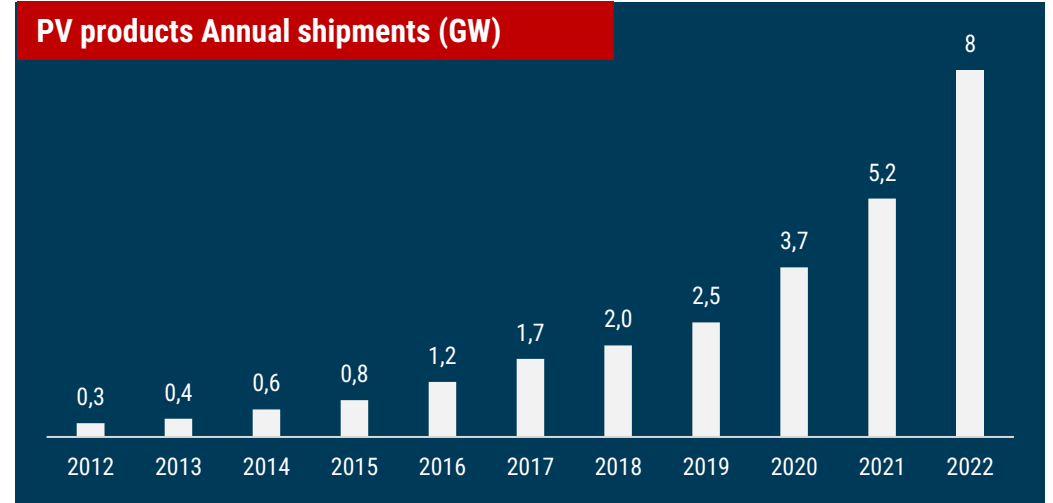


Sustainable Procurement

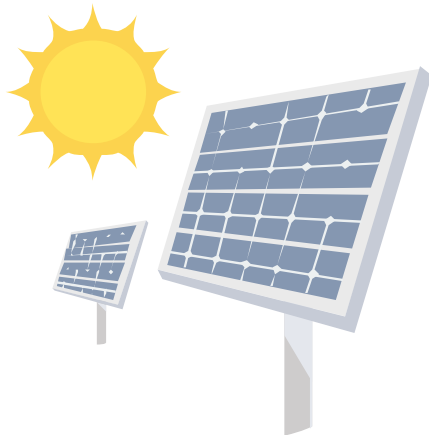


Create Green Value

- As a manufacturer of renewable energy, our products create green value for customers and for the Earth.
- As of Q2 2023, the cumulative shipment of photovoltaic products has exceeded 30GW, which can save 11.8 million tons of standard coal and reduce carbon dioxide emissions by 27.24 million tons per year.



Power generation
36 million MWH/year



Save standard coal
11.8 million tons/year



CO2 emission reduction
27.24 million tons/year



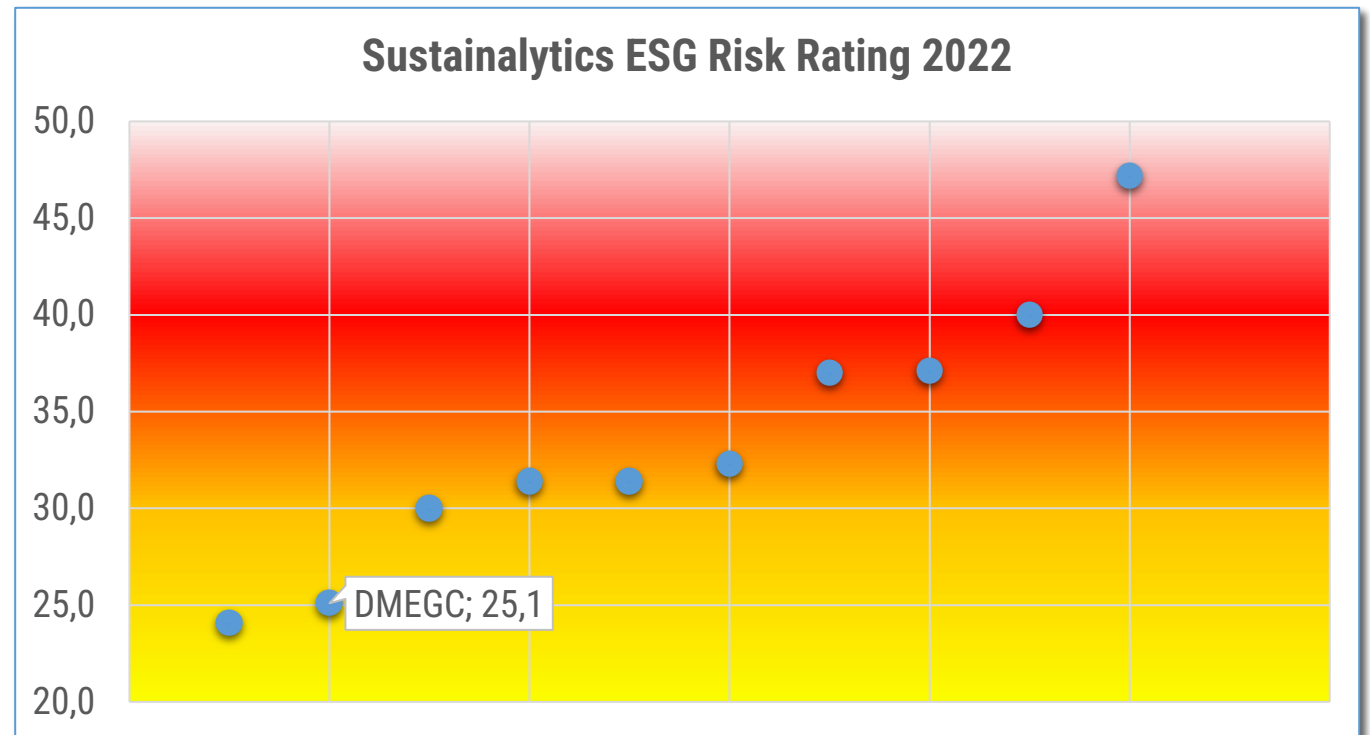
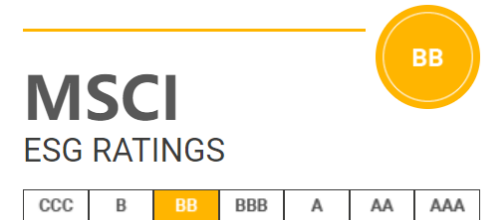
CSR/ESG Development

- **Since 2008**, DMEGC has published Social Responsibility Report every year.
- **In 2022**, DMEGC upgraded the CSR report to ESG report, and the first ESG Report(2022) has been released in **March 2023**.



ESG rating

- MSCI Rating: BB
- Sustainalytics: 25.1
- CDP Climate Change 2022: B-



Compared with Chinese Major PV Solar Company

*The lower the score, the lower the risk.

ESG Achievements

E: Environmental

S: Social

G: Governance

MSCI

BB

2022

CDP

Climate Change B-

2022

Sustainalytics

25.1

2022, Top2 of major Chinese PV company

EUPD Research

TOP BRAND PV

For 6 consecutive years

Ecovadis
Bronze Medal

2023

ESG Report in accordance
with GRI Standards

Certified by TÜV Nord

PFAS free
DMEGC products

The average growth rate
of workers' income

>10%/year

From 2018 to 2022

Bloomberg
Tier1

For 5 consecutive years

Certisolis carbon footprint
certification

The first batch of PV company

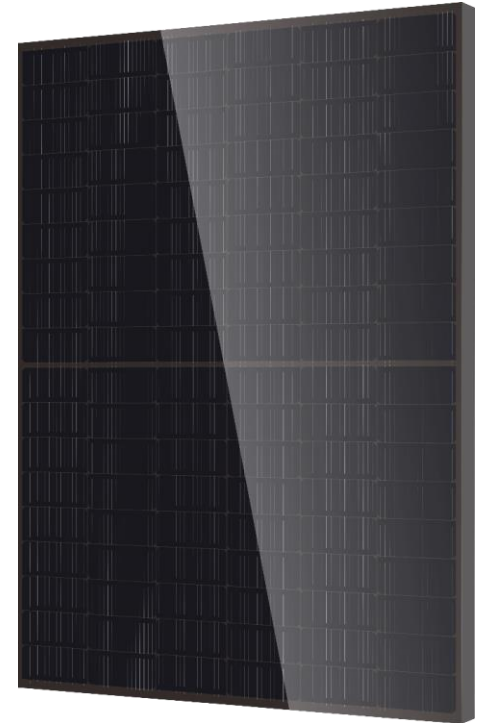
SA8000
certificated

100% green energy

In PV module manufacturing

PFAS Background

- PFAS, are man made chemicals so called **Perfluoroalkyl and Polyfluoroalkyl substances (PFAS)**
- Are large, complex group of synthetic chemicals which do not occur in nature
- According to the US National Institute of Environmental Health Sciences, PFAS are toxic, persisted and bioaccumulative
- More than 10.000 substances worldwide in use
- Include perfluorooctanoic sulfonate (PFOS) and perfluorooctanoic acid (PFOA)
- For example to keep food from sticking to packaging or cookware or to make clothes and carpets resistant to stains
- PFAS - **Fluoropolymers** - are also part of green technology e.g.: microchips, coating and sealing for wind turbines, in lithium batteries and raw materials for solar modules like backsheets
- EU ban of PFAS under discussion
- For solar modules focus on Glas/Foil modules with Fluorine backsheets
- DMEGC Solar decided to provide just **PFAS-free solar modules** – independent from possible EU regulations in upcoming years



Product Environment Friendly

Reduce ammonia and nitrogen emissions

- ✓ In the wet process of PV cell, the use of HNO₃ is eliminated, reducing ammonia nitrogen emissions by 53.3 tons/year;

Reduce fluoride and chloride emissions

- ✓ The introduction of additives targeting HCL and HF acid activity reduced the emission of fluoride ions by 335.1 tons/year and chloride ions by 293.1 tons/year,

Fluoride-free Backsheet

- ✓ Modified PET+ polyolefin material is to replace the traditional fluorine film and fluorine coating process

Lead-Free Welding

- ✓ Lead-free welding material, junction box for module;

Dealcoholized silica gel

- ✓ The product of crosslinking reaction of dealcoholized silica gel is alcohol, instead of the traditional deoxime silica gel containing butyl ketoxime.



- All series of PERC and TOPCon DMEGC modules are **PFAS-FREE** and pass the REACH SVHC/Annex XVII tests.

*Reach and PFAS testing are performed by TÜV SÜD (exp. begin. Oct)

An aerial photograph of a vast solar farm installed on a rolling green hillside. The solar panels are arranged in neat, curved rows that follow the contours of the land. In the background, a range of dark, silhouetted mountains stretches across the horizon under a dramatic sky with soft, golden light from a low sun, creating a warm sunset or sunrise atmosphere. The foreground shows dense green trees and vegetation.

To be the most socially responsible enterprise

Hengdian Group DMEGC Magnetics Co., Ltd

Hengdian Town, China

E-mail: solar@dmegc.com.cn

Website: www.dmegcsolar.com