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**Same sun.
More power.TM**

The solar innovation race is on
How are *you* going to win?

➤ **200**
million

PV modules using DSM
coating technologies

4600
GWh

of additional power generated
by DSM Anti-Reflective coating

➤ **50**
GW

of modules produced
with DSM coating
technologies

2300
ktons

of CO₂ equivalent
saved

A word about DSM

We are a global science-based company with a 100-year track record in materials sciences across a broad range of industries.

We believe that if you focus the world's brightest minds on the biggest issues, you really can change lives – which is why sustainability is the core value of our company.

With major Research and Technology Development centers in both Europe and Asia staffed by some of the best people in the industry, we take the huge wellspring of knowledge and

expertise already inside DSM – and then we apply and amplify it through open innovation to fast-growing industries like solar.

For example, our test sites in Europe, India and China give solar decision-makers a first-hand view of how solar materials perform in the field – and how this insight feeds into the innovation funnel.



**We see a future powered
by sustainable energy,
with a starring role for solar.
And it's within our lifetime.**

At DSM we have one, clear goal: to make clean, solar energy a reality for all. We are a science-based innovation engine in materials and technology, here to help the industry further lower the Levelized Cost of Energy (LCOE): Same sun. More power.™

Our first breakthrough was an Anti-Reflective coating for glass. Today this single technology is enabling more than two hundred million solar panels to capture more of the sun's power.

What next? Endurance backsheets for PV modules that help you generate more power; and a unique Anti-Soiling coating for hot, dry environments that reduces the soiling rate of PV modules and increases returns for investors.

Both technologies are already available – and more will follow as we continue to work in partnership with institutes, glass and module makers, project developers and energy providers to create the next generation of solar solutions.

The innovation race is on. Join us.

The power of partnership

It's simple. There *is no* innovation without collaboration. Which is why at DSM we work across oceans and through the value chain to drive solar success. Same sun. More power.™

With innovative startups

We continuously seek new PV technologies and innovations to scale up together with startup partners, through joint developments, technology licensing and venture investments. For example, through the SunRISE Techbridge Challenge organized in cooperation with Fraunhofer CSE and Greentown Labs, we've

identified more than 100 innovative startups over the past two years and awarded nine of these firms with participation in the Greentown Labs Start-up Acceleration program; technical validation services from the Fraunhofer R&D network; and eligibility for investment from and/or partnership with DSM.



With research institutes

We work with renowned institutes like CPVT, Fraunhofer Institute and NREL to validate the performance of new solar materials for customers - both in the lab and the field. By combining our strengths we are continuously striving to further reduce LCOE.

With solar energy EPC companies, developers and integrated players



Solar decision-makers make huge financial investments in their solar parks and need to be sure of investing in the right products. Our partnership with market leaders like Tata Power Solar gives both parties valuable insights into how our innovative coating materials perform in the field – and how our innovations can deliver value.

2050

25-50% OF THE WORLD'S POWER TO BE DELIVERED BY SOLAR*

The industry thinks we can get there. And by working with our many partners... so do we.

With supply chain partners

We work with various leading equipment, materials and/or module manufacturers to co-create solutions that help the industry lower LCOE, short-term or long-term. For example our innovation agreement with the Finnish

thin film specialist BENEQ is paving the way for coated solar glass with better visual quality and aesthetics and our partnership with Flat Glass Group is bringing PV solar glass with our new coatings to the market.

In all, we work closely with more than 20 partners, including The Solliance Network, several technical universities, Apricum and Lux Research.

*Sources a/o: Visionary models published by Greenpeace (Energy [R]evolution scenarios 2050: 23%) and Lappeenranta University of Technology, Finland (Energy system model: 45%).

Putting our energy into sustainable growth

At DSM we strive to create what we call Brighter Living Solutions: Profitable products and innovations that have a measurably better impact on our planet and its people than the mainstream solutions. In solar, this means products that contain no toxic materials; that preserve precious resources; and can be economically recycled with a lower carbon footprint.



For example, our Endurance backsheets have a 30% lower carbon footprint compared to conventional backsheets and are

100% recyclable with no production waste. The next step? To help the industry create 100% recyclable PV modules.

DSM Endurance backsheets are 100% recyclable

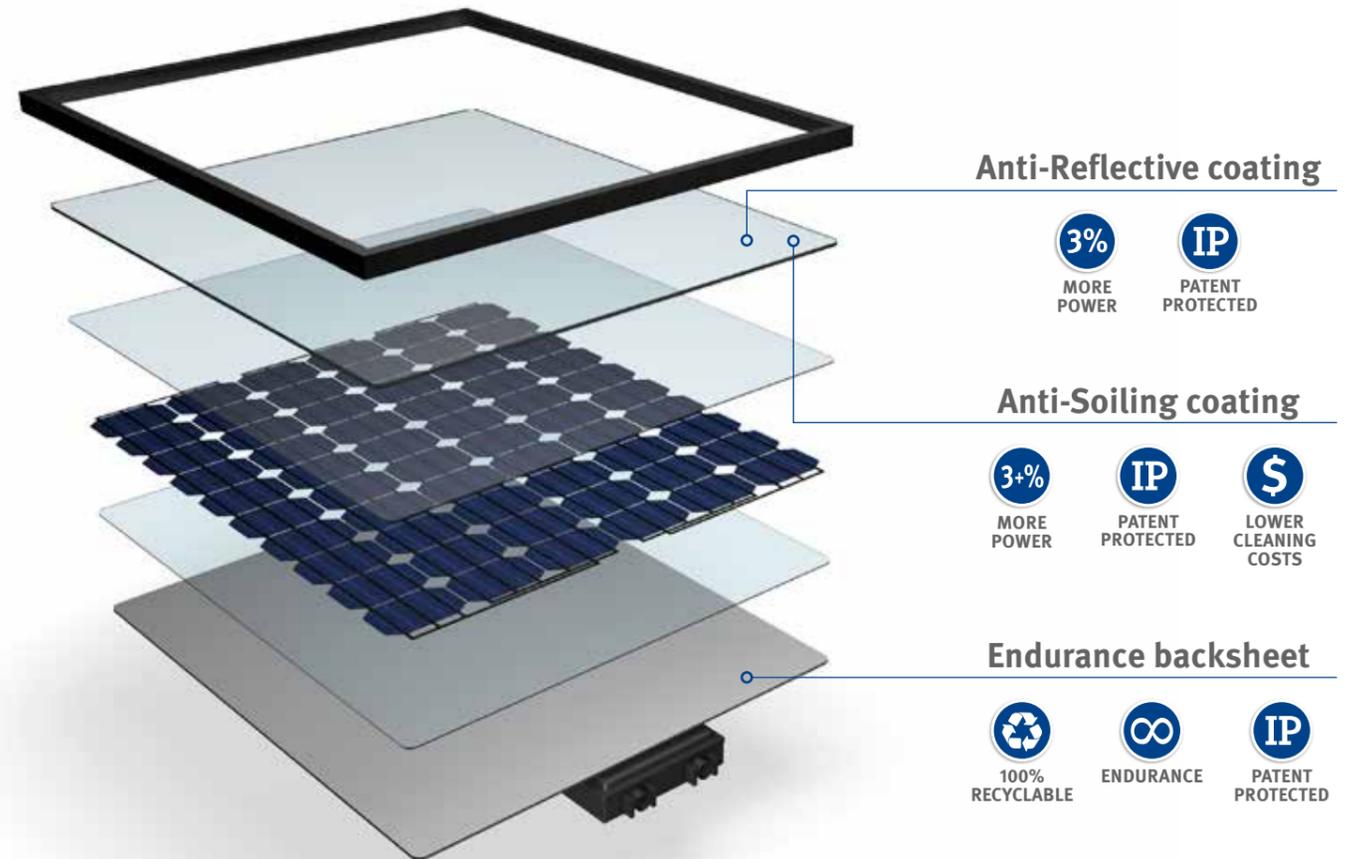


Proven to deliver more power

All our materials solutions for solar have one important benefit in common: they are proven to generate more power from your PV modules.

Whether you're a glass manufacturer, a module maker, a project developer or a technical advisor, we will help you reduce LCOE.

Here are just three examples of how we do it *today* (with plenty more innovations in the pipeline).



What next?

We've only just started.

We will continue to develop materials and technologies that boost the power of your PV modules today and tomorrow. That means accelerating mainstream PV solar cell technologies and exploring smart new ones: all in a stable and sustainable way that benefits people, planet and profit. Same sun. More power.™

The future looks bright

Many bright minds are working relentlessly to create a world powered by solar, but our success will depend on how far, and how fast we are prepared to innovate.

There is not one single technology that will drive solar. There are many. There is not one genius. There are hundreds. Perhaps even thousands.

So if you share our vision of making clean solar energy possible for all - and want to make it happen faster...

Let's win the solar innovation race together.

Same sun.
More power.™

DSM Advanced Solar

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