



COAT-IT

MODERN COATINGS EXPERTS

Modern & Sustainable COATINGS
important and crucial solutions for
Green Energy Transition & more



COAT-IT

MODERN COATINGS EXPERTS



Established in 2019

Combination of Nanotechnology and
Metallic Coatings Experts

Addressing urgent environmental and
resource efficiency issues.

Since 2023 we operate as a part of:

innoco





Invisible, yet essential:
Sometimes what we can't see
sustains us.

like Coatings

COAT-IT

MODERN COATINGS EXPERTS

Adneeo



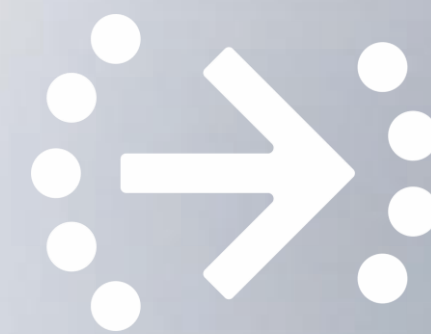
Nano-based additives for Surface Treatment



Improved corrosion and wear protection



Smart and regenerative properties



Reduced metal usage

R&D hub

Knowledge, experience & cooperations, that allow us to:



Design & Modify Coatings and deposition processes



Test Coatings & new solutions



Manufacture additives & produce coatings

Chosen scientific partners:



POLISH ACADEMY OF SCIENCES



WARSAW UNIVERSITY OF TECHNOLOGY



JÜLICH
Forschungszentrum



WROCLAW UNIVERSITY OF TECHNOLOGY



SILESIA UNIVERSITY OF TECHNOLOGY



Danmarks Tekniske Universitet



GDANSK UNIVERSITY OF TECHNOLOGY



CLUSTER OF HYDROGEN TECHNOLOGIES



BIAŁYSTOK UNIVERSITY OF TECHNOLOGY



SILESIA NANO CLUSTER



KEY NATIONAL CLUSTER



NATIONAL CENTRE FOR NUCLEAR RESEARCH
ŚWIERK





R&D Projects with EU funding:

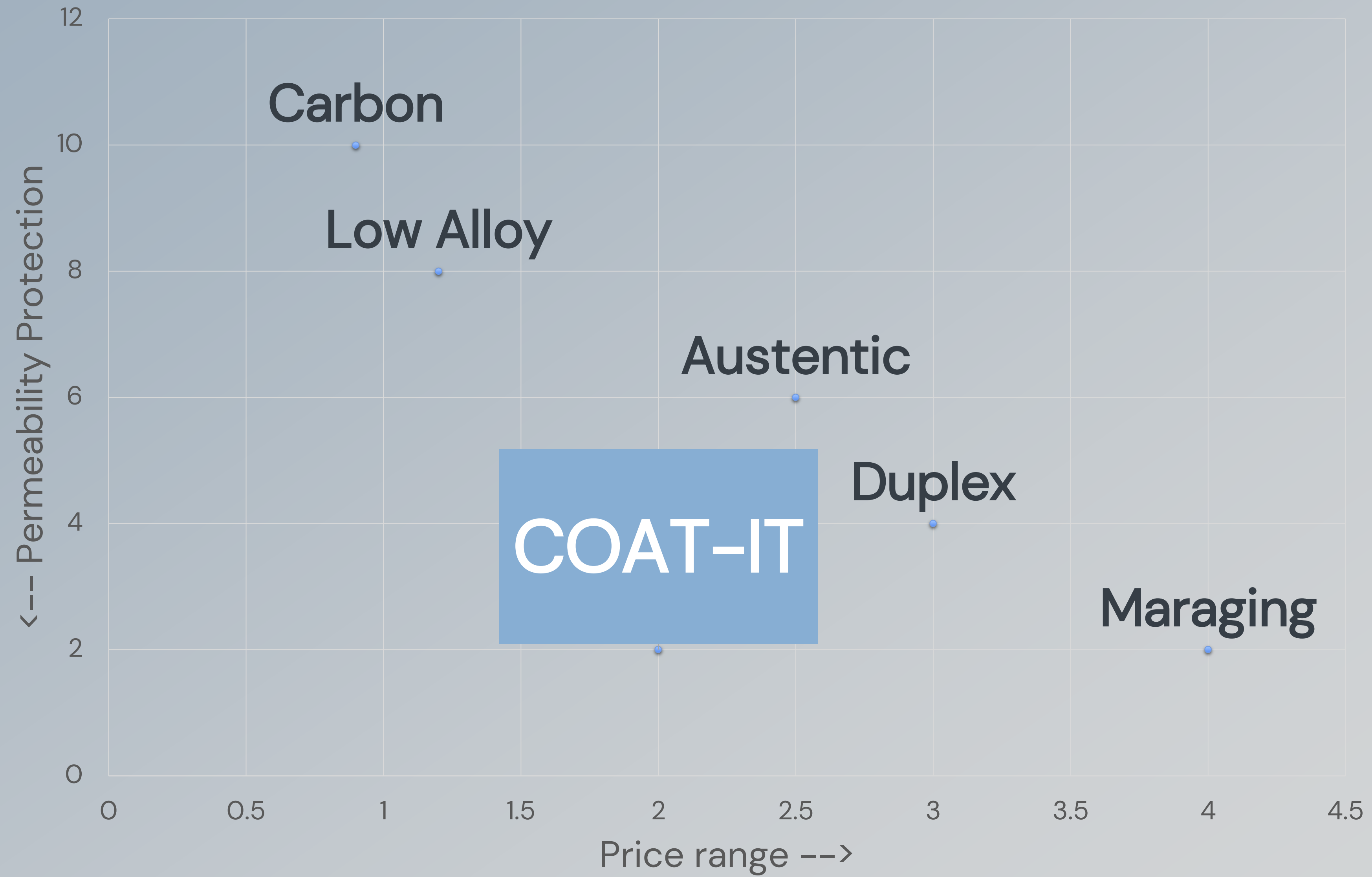
Coatings based on steel alloys and nano-materials for more sufficient HYDROGEN storage and transportation. (2026-2028)



Cost-effective green hydrogen using AC:DC operated durable SOECs (consortium project)

(our part: design a new functional coating decreasing the production price of fuel cell by using different steel grade) (2026-2028)

Hydrogen Permeability Protection
Low
Medium
High
Very high
Very high+





New coating solution for Fuel Cells

✓ **70% savings**

(vs Crofer22APU with MnCo_2O_4 coating)

- New Interconnects will use low-cost widely available low alloy steel (generic 430-grade)

✓ **No CRM used**

(Critical Raw Materials as per REACH)

- COAT-IT will develop and optimize non-CRM (Critical Raw Material) protective oxide coating

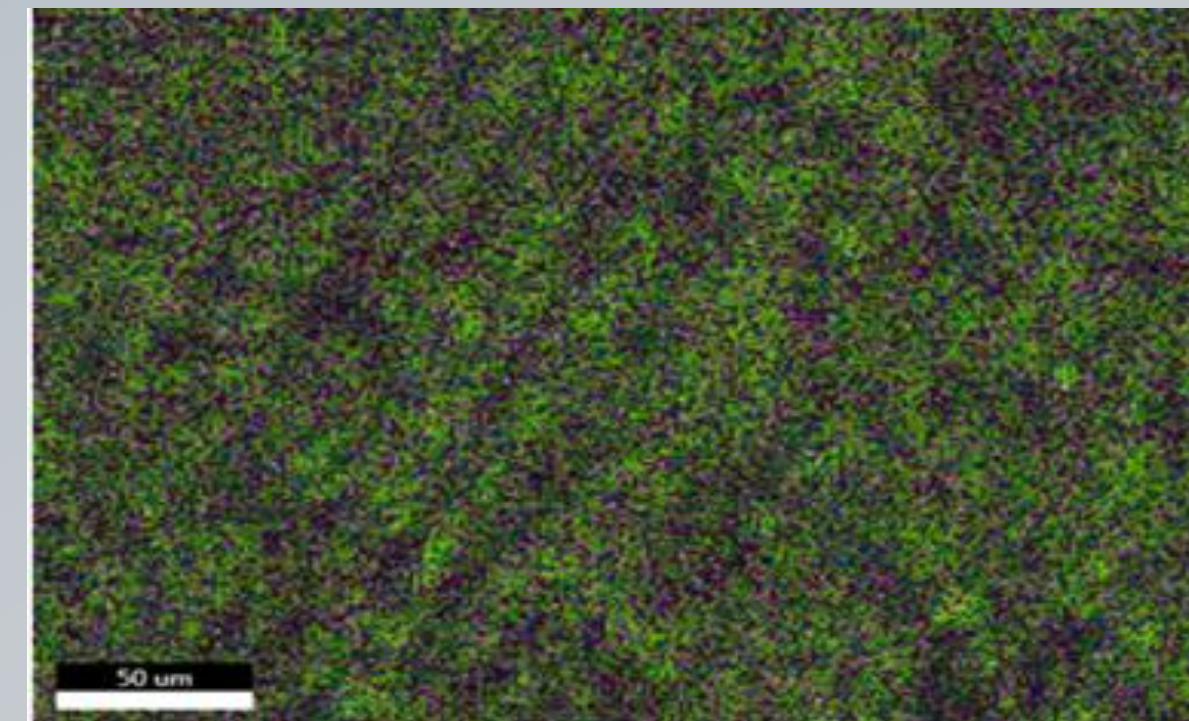
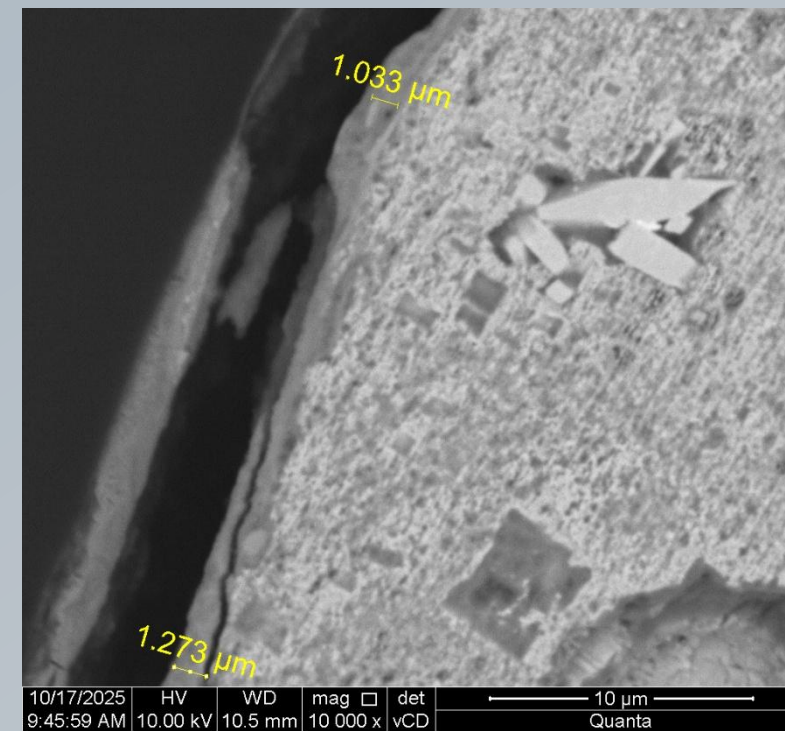
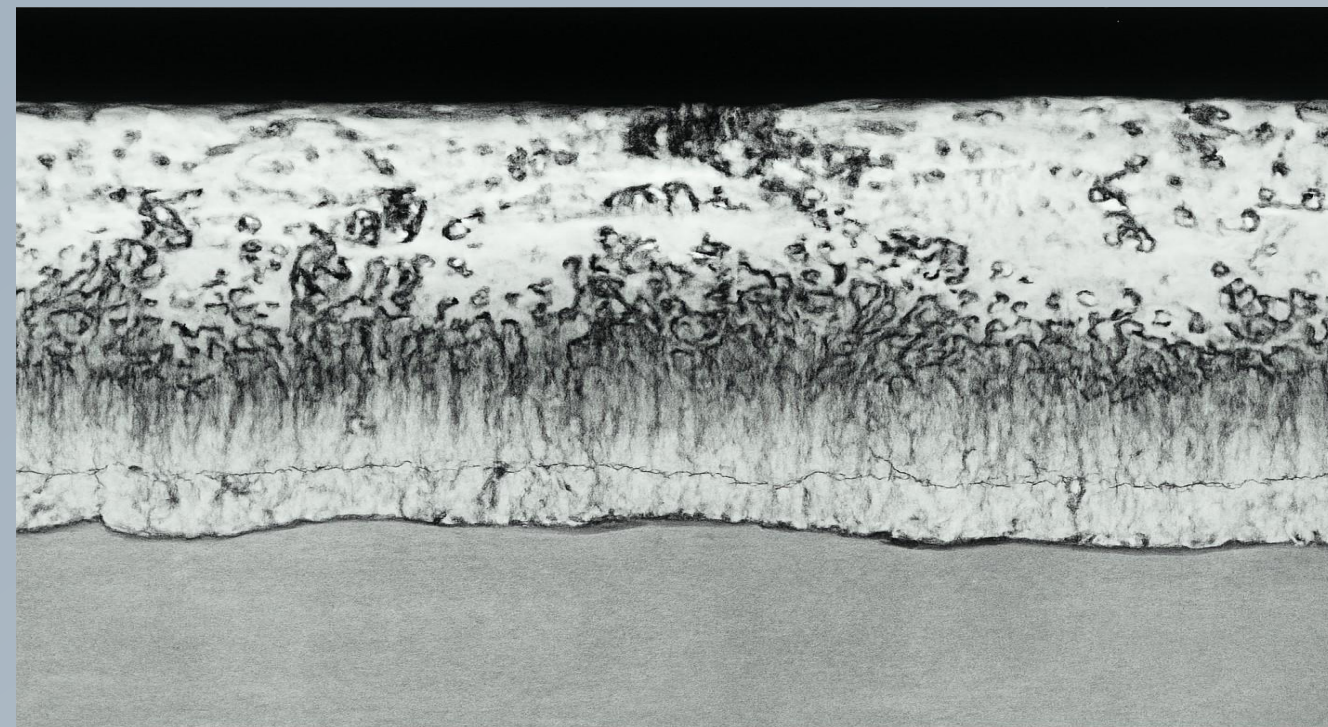
✓ **Scalable**

(Industrial Methods tested)

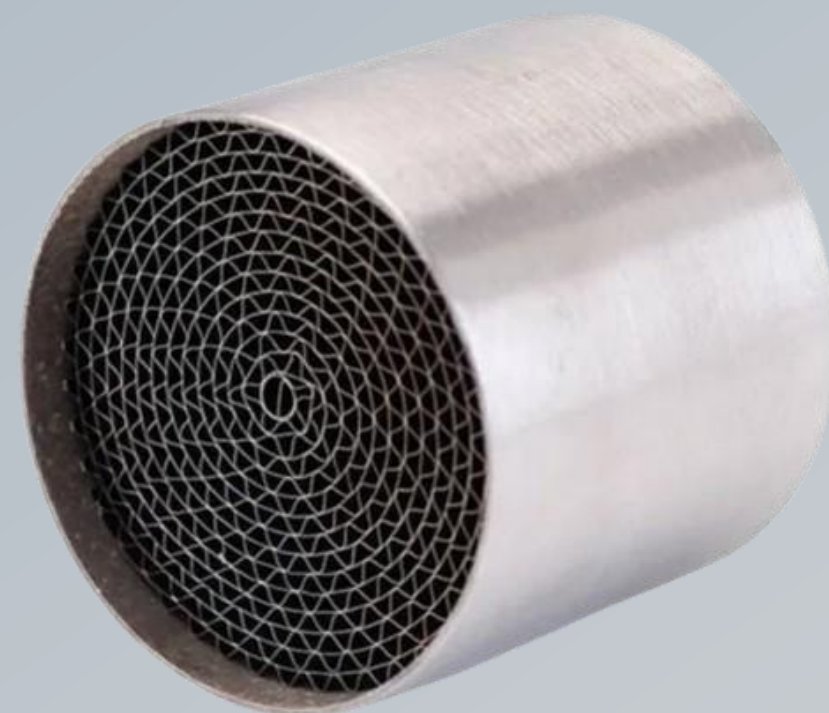
- This new coating is being designed for cost-effective and up-scalable electroplating process

Recent Commercial Projects for US based companies:

Accelerated deposition of natural passivation layer after hot dip galvanizing.
From 45-60 days to 6h. In applications where time matters (heat exchangers)



Designing and performing a coating technology that can contain clients material (powder form) and can survive very high temperatures **to capture CO₂ emissions**



PV



SOLAR ENERGY

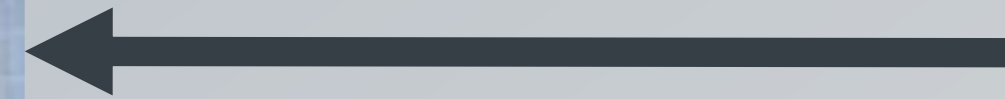
Infrastructure lasting longer

Improvement of the mechanical properties of steel structures used for mounting photovoltaic farms (including corrosion resistance) - improvement in the current process from 2000h to 3000h in the salt chamber in accordance with ISO9227.

Prolonged lifespan from 25 to 40 years

Self-cleaning coatings:

Protection of solar farms: lighter maintenance, higher efficiency, longer lifespan



From production, to logistics, and Energy connected applications—there is a big opportunity to increase sustainability on a global scale.



CONSTRUCTION @ ENERGY

Reduce material usage and increase resistance to corrosion and weather.



ENERGY PRODUCTION

Minimize the footprint, reduce load and material usage.



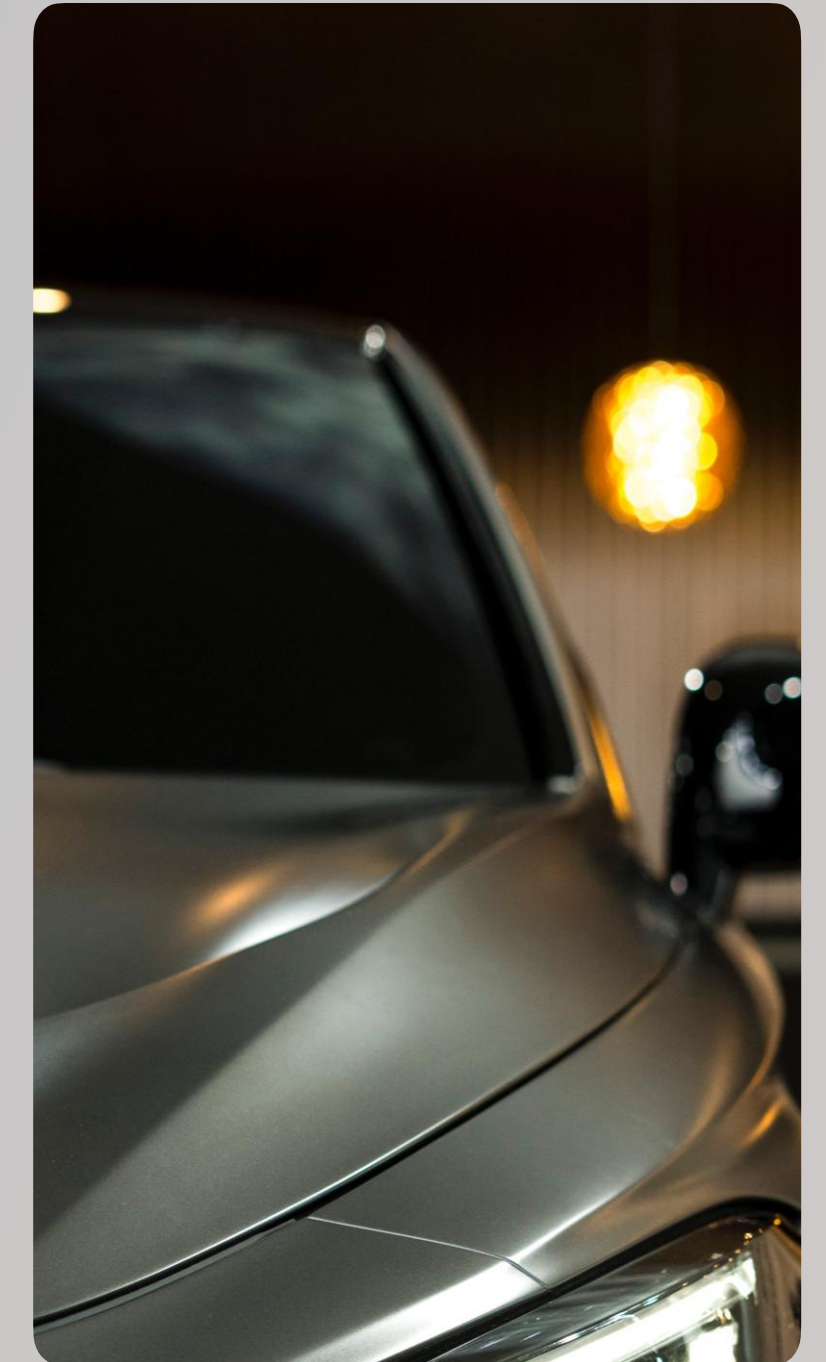
ENERGY TRANSPORTATION

Enhancing the mechanical properties of pipes and tanks for transport of hydrogen and other substances.



ENERGY STORAGE

Improve performance and resistance to chemical corrosion.



ENERGY @ VEHICLES

Compliance and safety, performance improvement from battery to engine.



How to cooperate with us?



Manufacturer:
Buy our products

Additives for electroplating processes.



R&D Hub:
Buy our expertise

Commercial projects: composite coatings, alloy coatings, special purposes coatings: e.g.: self-healing, hydrophobic, etc.



Reliable Partner:
Work together with us:

Consulting
Proof of concept
Pilot Tests
Trials
Scaling-up



Open to funding:
Invest in us.

Products decreasing the use of raw materials
All the time thinking about more natural and less harmful alternatives
Combination of industry experts and business developers that makes the business grow.



COAT-IT better with us



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