
UNIROYAL GLOBAL
ENGINEERED PRODUCTS
UK Automotive Supplier & Manufacturer of Soft Trim Technologies
“Our mind set is clear; we are wholly committed to, and take full responsibility for, a sustainable future”
Mark Heron MD. Uniroyal Global Ltd

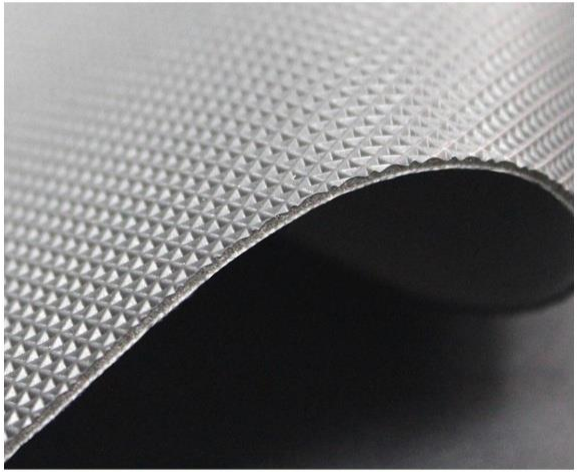
UNIROYAL GLOBAL LIMITED

Leading Manufacturer of Technically Innovative, Design Led Coated Fabric



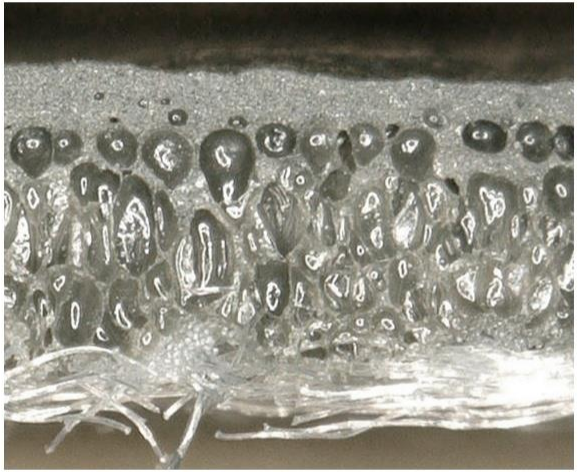
PVC COATED FABRICS

Uniroyal vinyl uses materials that are not from animal origin.



Vegan Vinyl

Uniroyal has never tested any Ambla product on animals.



Construction

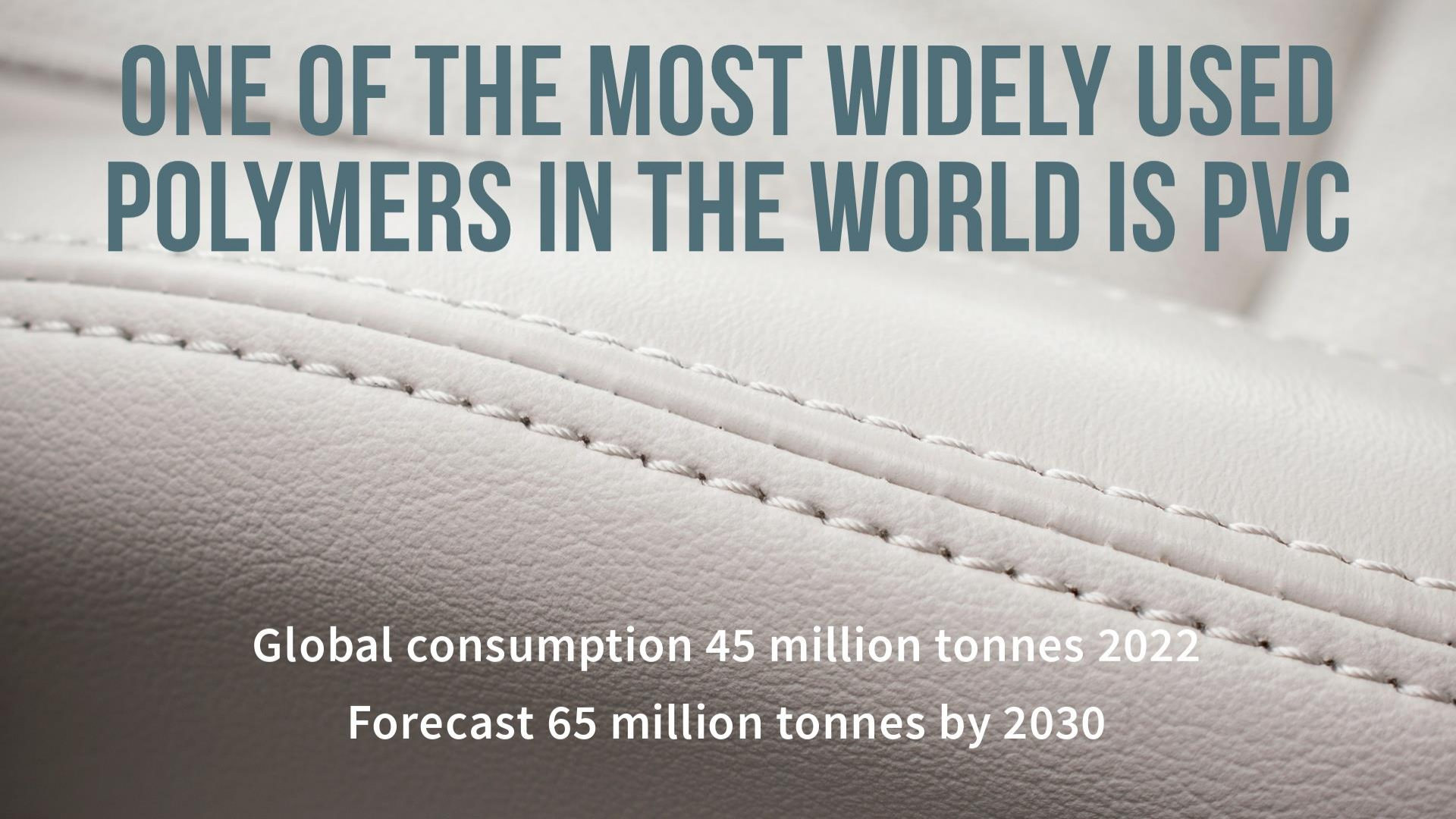
Ambla consists of three layers, a solid surface, expanded middle and backing fabric substrate.



Backing Fabric

The backing fabric on Ambla vinyl can be sourced from either fossil or none virgin variants.

ONE OF THE MOST WIDELY USED POLYMERS IN THE WORLD IS PVC



Global consumption 45 million tonnes 2022

Forecast 65 million tonnes by 2030

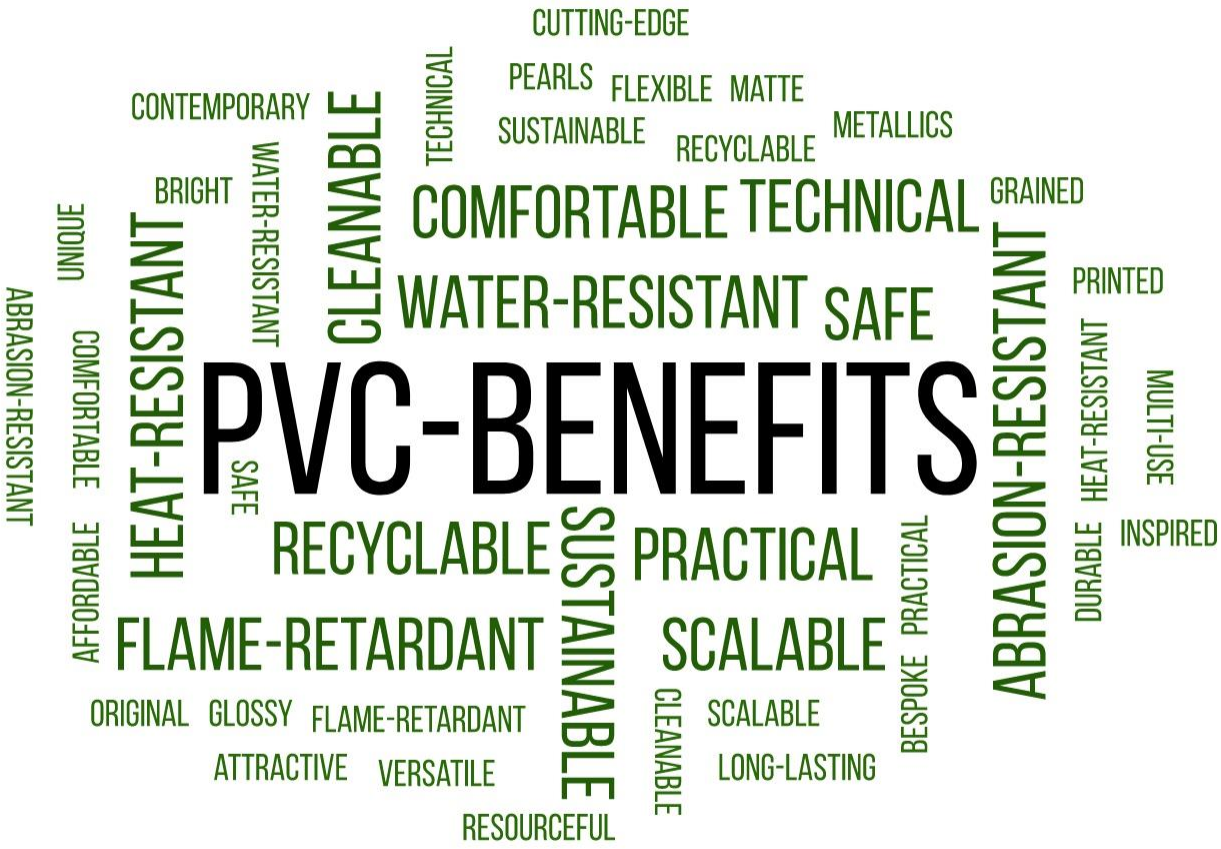
MATERIAL OF CHOICE FOR MANY INDUSTRIES

> Construction

> Healthcare

> IT

> Transport



SUPPORTS A GROWING GLOBAL POPULATION & THE NEW GENERATION IS **SUSTAINABLE**


SUSTAINABILITY
Uniroyal's Global Commitment to the Planet
We are truly focused on producing a fully sustainable product,
minimising waste, conserving energy and reducing carbon emissions.

imvelo
automotive

SUSTAINABLE VINYL

Imvelo retains the same product characteristics as conventional vinyl.



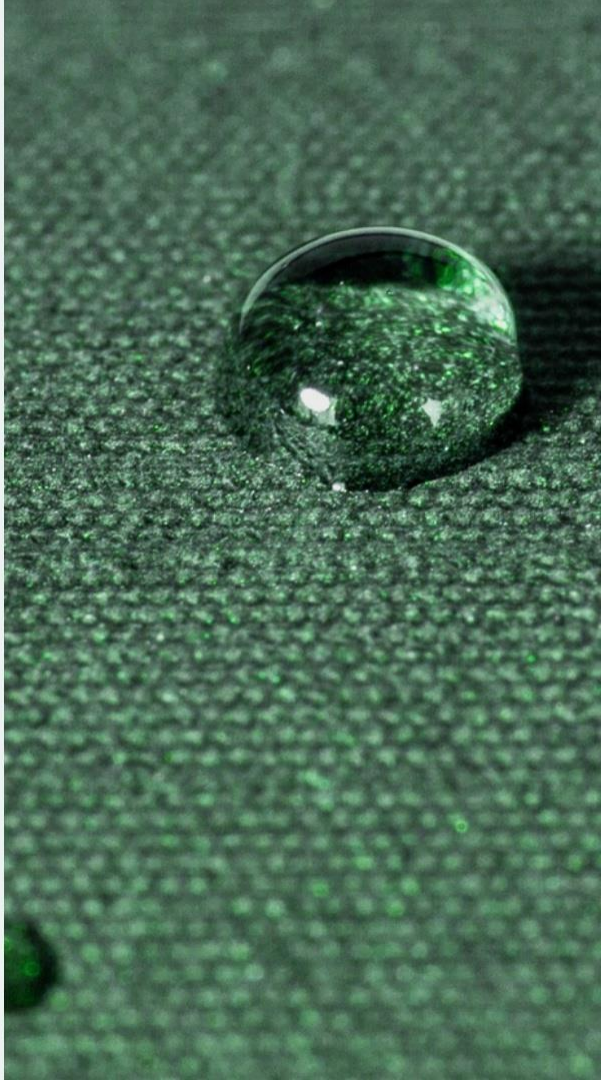
IMVELO

- Recycled backing fabrics with no performance differences
- An exact replacement of oil based materials
- Designed to last the vehicle's lifetime
- Flexible with high performance
- Recyclable

IMVELO automotive

IMVELO 'VS' STANDARD VINYL

	Standard Vinyl	IMVELO automotive
Construction	✔	✔
Quality	✔	✔
Performance	✔	✔
Aesthetics	✔	✔
Price		+20%

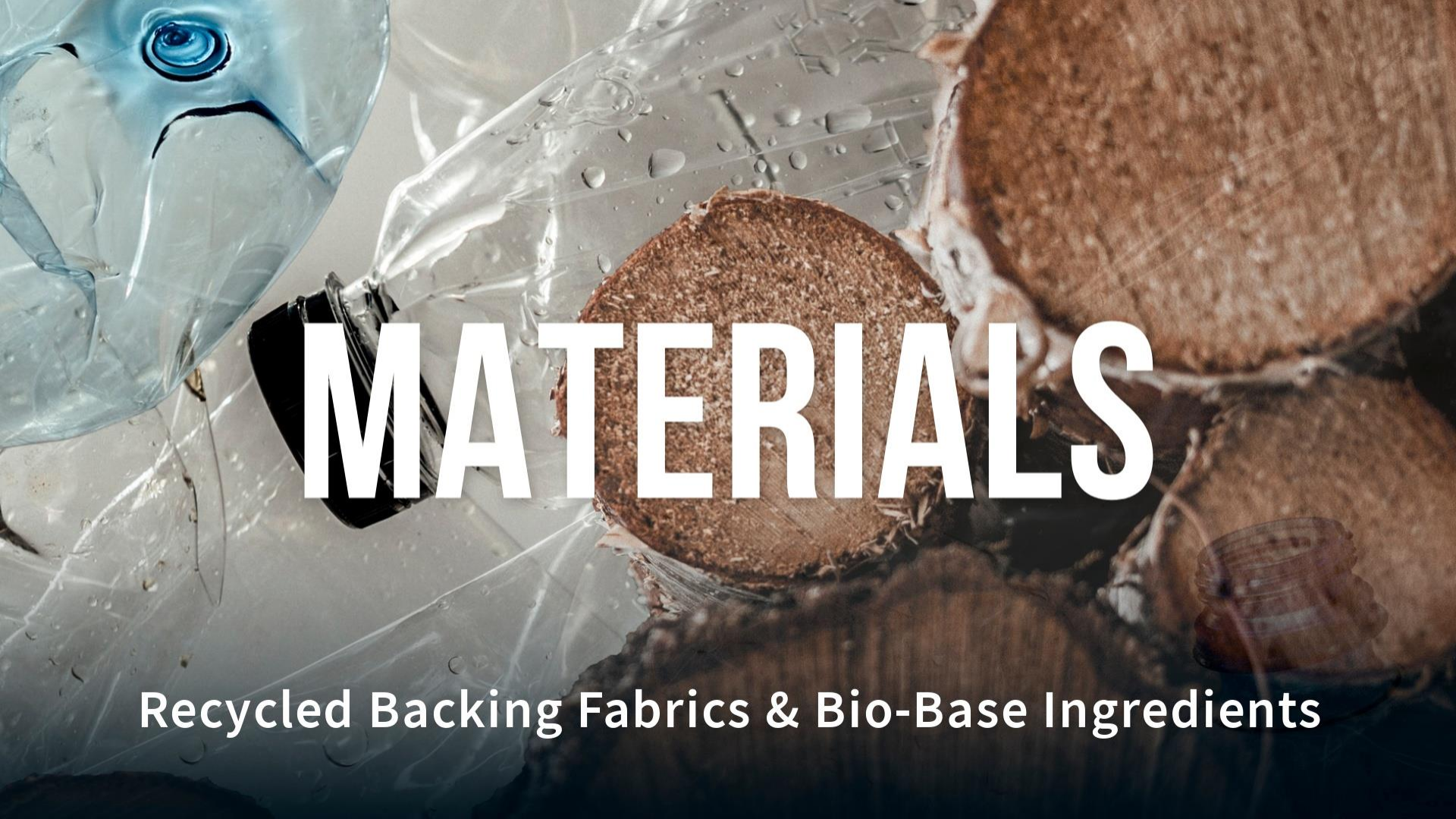


SUMMARY

As a result of all of our green developments, Imvelo comes out with an impressive CO2e value and a recycled content in excess of 50%.

IMVELO	LEATHER	PU
1.95kgCO2e/sqm	5kgCO2e/sqm	2.9kgCO2e/sqm

We are continuously looking for ways to improve Imvelo's CO2e value.


MATERIALS
Recycled Backing Fabrics & Bio-Base Ingredients

MATERIALS

BACKING FABRICS

Raw materials have a significant impact on the environment. As such, we can choose synthetic fibres that are created from recycled plastic bottles (PET). Through careful choice of materials, we are able to produce fabrics equivalent to their fossil counterparts.





MATERIALS

BIO-BASED

Bio-sourced ethylene derived from the wood-based residue of the sustainable forestry industry. This has significant additional benefits over conventional PVC, offering a green house gas saving of approximately 90%.



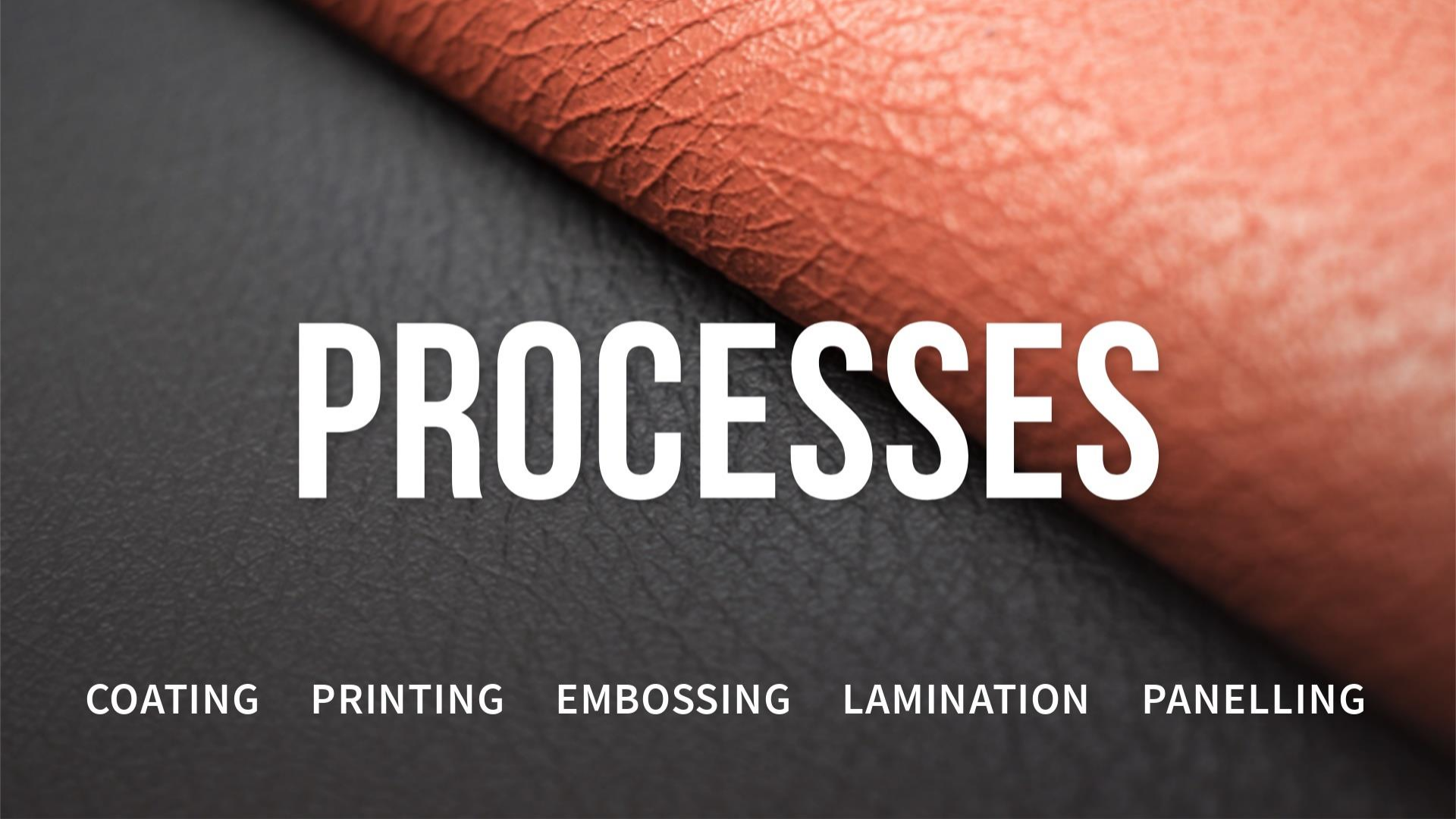




MATERIALS

Our commercially proven fossil alternatives

	POLYMER	PLASTICISER	PIGMENT/FILLER	FABRIC
BIO-BASED	●	○	○	○
RECYCLED PCR	○	○	○	●
RECYCLED PIR	○	○	◐	○
FOSSIL	○	◐	○	○


PROCESSES
COATING
PRINTING
EMBOSSING
LAMINATION
PANELLING

PROCESSES

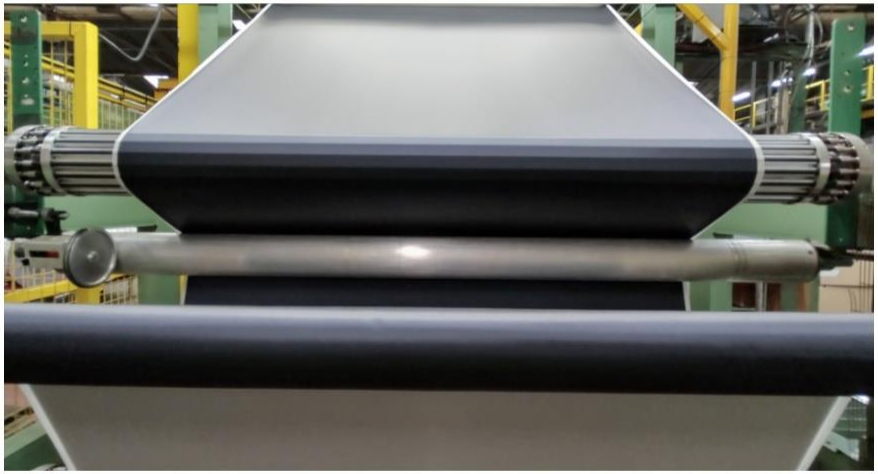
COATING & PRINTING

Careful choice of process can reduce energy requirements and green house gas (GHG) emissions.



Coating

Our newest line reduces energy requirements by 60%.



Printing

Changing to fully water-based lacquer will reduce our GHG emissions.

PROCESSES

R.T.O

Regenerative Thermal Oxidizer installed in 2018

Eliminates emissions from our processes, improving air quality for our neighbours.



PROCESSES

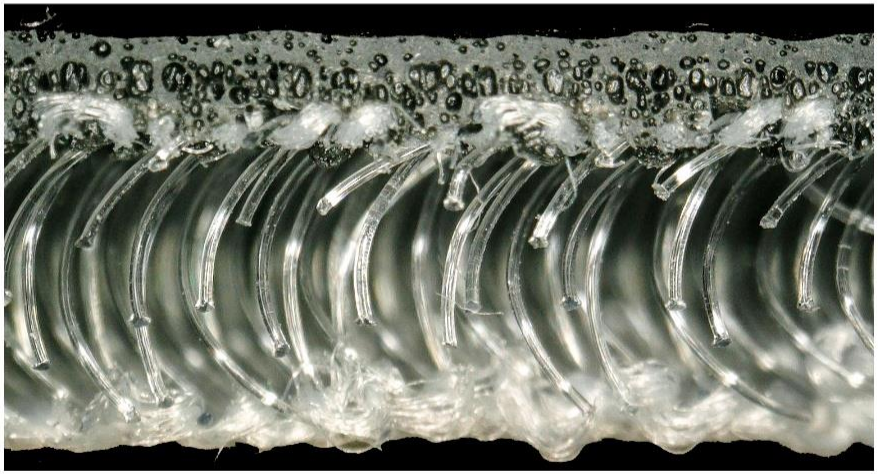
EMBOSSING & LAMINATION

Process optimisation allows minimisation of energy requirements.



Embossing

Silicone band technology eliminates separate embossing process. Removing the energy required for a heating & cooling step.



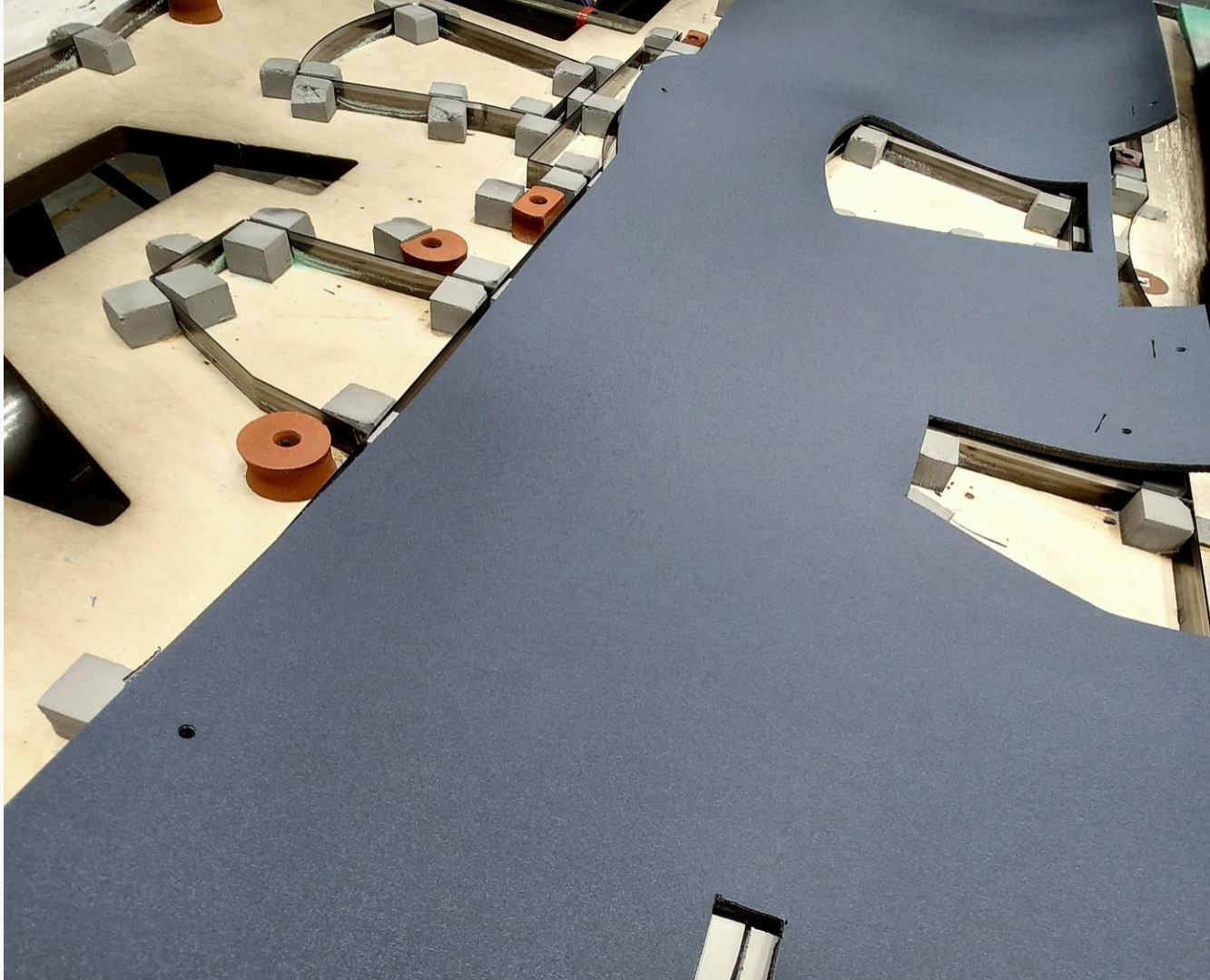
Lamination

The use of spacer fabric completely eliminates a process step reducing CO2e from PU production and lamination.

PROCESSES

PANEL CUTTING

On-site panel cutting enables full service capability. Reducing waste in the supply chain, maximising quality, lowering the products carbon footprint and improving recyclability.




REDUCE
REUSE
RECYCLE

RECYCLED



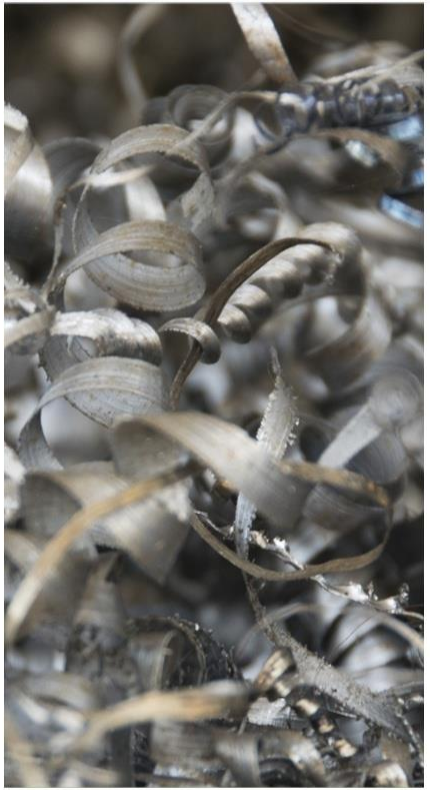
PAPER



CARDBOARD



WOOD



METAL

REUSE



PASTE



LACQUERS

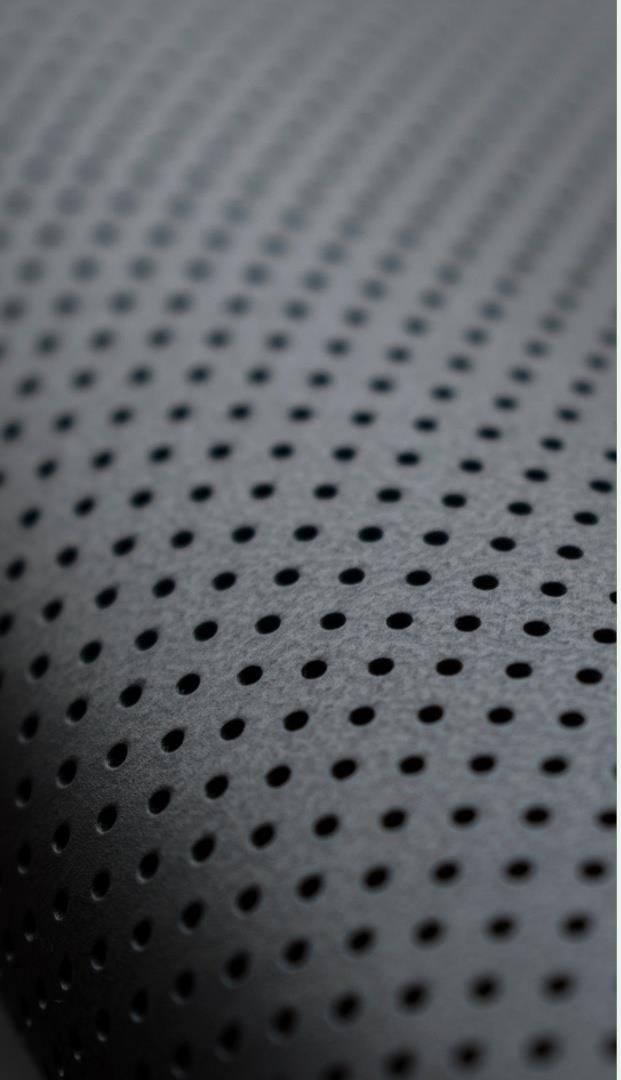


FABRIC/TRIMMINGS



CIRCULAR ECONOMY

- DESIGN
- PRODUCTION/PROCESSING
- USE/RE-USE/REPAIR
- DISTRIBUTION
- COLLECTION
- RECYCLING



RECYCLING FINISHED PRODUCT

PVC CAN BE RECYCLED USING THE FOLLOWING PROCESSES

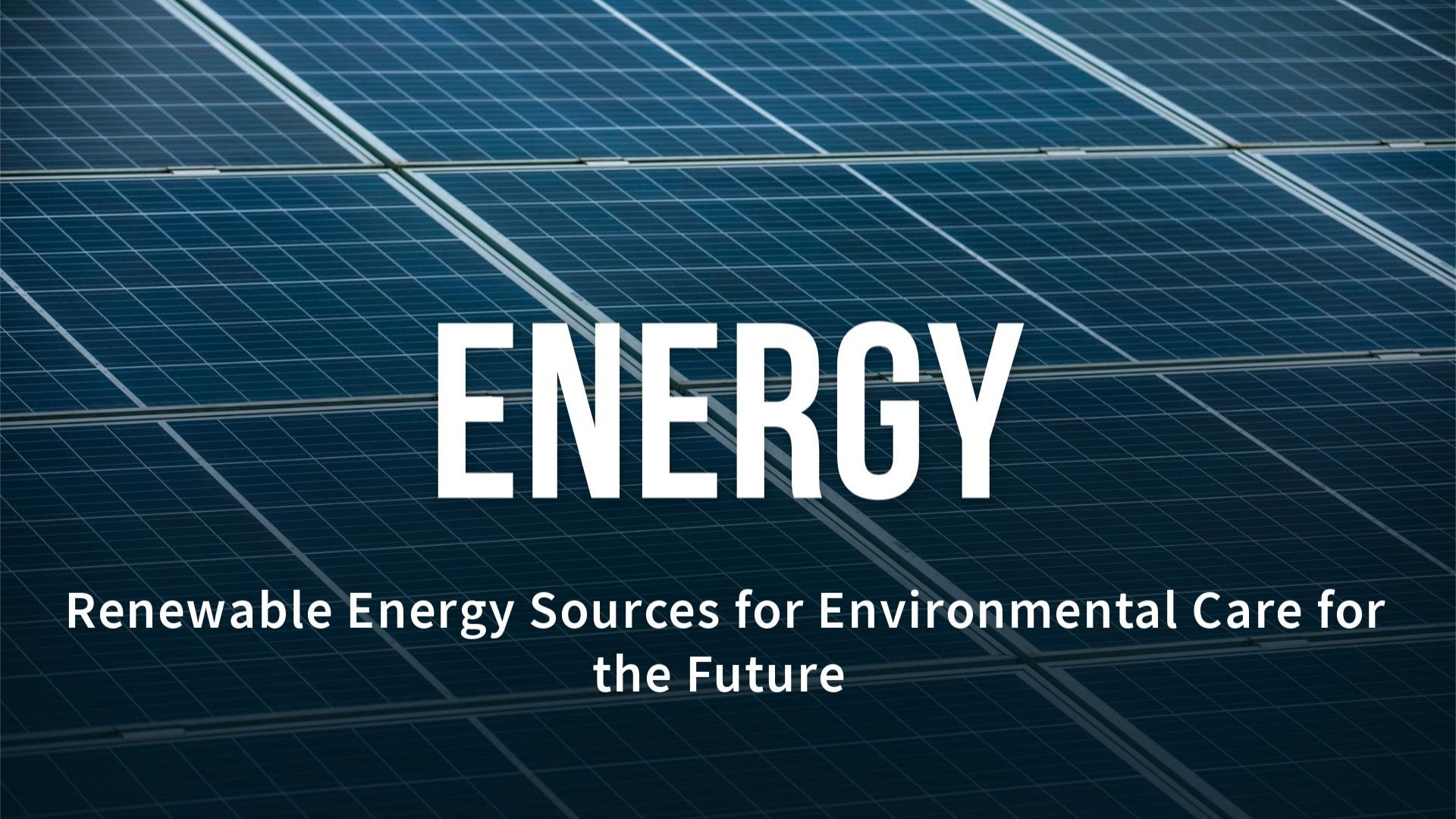
UP-CYCLE
Physical reclamation & re-use i.e.sound deadening

CHEMICAL RECOVERY
Recovery by dissolution process i.e. vinyl loop - UGL H1 trial

RAW MATERIAL RECOVERY
Recovery of carbon & hydrogen:-

GASIFICATION
Steam

PYROLYSIS
Heat


ENERGY
Renewable Energy Sources for Environmental Care for the Future

ENERGY

SOLAR PANELS

1GW of solar capacity, representing approximately 30% of our annual usage.

Installed 2023.



ENERGY

LED LIGHTING

Saving 182 tonnes of CO2e per year across our 6.1 hectare site.

Installed 2021.



ENERGY

FUTURE RESOURCES

Wind Energy :-

Carrying out feasibility study during winter 2023.

Hydro :-

Capability study 2024 using on site river.





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ENGINEERED PRODUCTS

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