



Issue 2 - March

*Our assortment of*  
**Seriously  
Sustainable  
Stuff...**

This pack is an assortment of stuff we have spotted this month that we feel is worth reading about! So take a look at our top five and get in touch if you want to join the sustainable conversation!

**man**



*Number five*

## **Thriv3 Board**

Fibreglass mannequins have a bad rep in retail, and this is because traditionally they have not been recycled and end up in landfill... Until now! Thriv3 Group are repurposing this fibreglass and producing a range of solid surface materials which look great! You may have seen the trendy terrazzo looking material used in the newest Sports Direct store on Oxford Street which is around the corner from our office. This was in fact made from their own mannequins taken from old stores which is good for the environment and good for the new store's aesthetic.



## *Number four* **Green Steel**

Steel production are using coal accounts for around 8% of global greenhouse gas emissions. This is the world's first customer delivery of "green steel" produced without using coal is taking place in Sweden, according to its manufacturer.

The Swedish venture Hybrit said it was delivering the steel to truck-maker Volvo AB as a trail run before full commercial production in 2026. Volvo has said it will start production in 2021 of prototype vehicles and components from the green steel.



*Number three*

## **Colour Changing Car**

The surface coating of the BMW ix Flow featuring E ink contains millions of microcapsules, with a diameter equivalent to the thickness of a human hair.

Each of these microcapsules contains negatively charged white pigments and positively charged black pigments. Depending on the chosen setting, stimulation by means of an electrical field cause either the white or the black pigments to collect at the surface of the microcapsule, giving the car the desired shade. Could this mean that in the near future, those who buy new cars or other painted items like bikes because they are fed up of the colour will actually simply change the finish and use them for longer?



*Number two*

## **BBC Virtual Studios**

We have all seen several events now where the BBC have used a virtual studio to broadcast from. The winter games at the Beijing Olympics are the latest and possibly most impressive one so far. The producers have used several high-powered rendering packages including unreal engine to produce these 3D environments which use simple green screen technology that allows the studios to be made with minimal construction materials. Although the power needed to run the computers is significant, we feel that this is a step in the right direction for broadcasters like the BBC to be reducing the use of physical, single use materials and sets. The green screens can be used time and time again with a multitude of virtual environments each time which means no waste and minimal transport needed.



*Number one*

# PVD Coating

PVD Coating and traditional electroplating are similar, both belong to the category of surface treatment, both are to make a certain way to cover the surface of another material.

The difference between the two is that PVD coating film layer and the surface of the work piece have higher binding force, higher hardness of the film layer, better wear resistance and corrosion resistance, and more stable performance of the film layer. PVD coatings can be coated with a wider variety of films, can be plated out of a variety of more beautiful colours; PVD coating does not produce toxic or polluting substances.

**Hope you  
enjoyed  
the read &  
if you did,  
then say  
hello...**

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