Self-healing polymer, by Kathleen Tooby and Nancy Sottos (University of Illinois). Cracks in the plastic coating are sealed by a polymer that emerges, at the site of damage, from a micro-channel system integrated in the substrate.

GreenPla—Zero Energy Media Wall by Simone Giusti & Partner with Ove Arup. LED media façade with integrated solar panels. The electricity required to operate the LEDs at night is generated by converting sunlight during the day.

Smart Wrap (patent pending) by Kieran Timberlake investigates the idea of an off-the-shelf material consisting of OLED (light), PCM (climate) and flexible solar modules (energy), continuously manufactured using combined lamination and printing processes, which combines all the important functions of a building envelope.