



The Netherlands

Circularity principles in the built environment were demonstrated in the construction and subsequent disassembly of the People's Pavilion for Dutch Design Week 2017. Built with borrowed or recycled materials, such as recycled plastic for the colourful shingles on the cladding, the building's materials were dismantled and returned to the respective suppliers, effectively closing the loop in the value chain. Incorporating such circularity principles upstream in the planning and design of buildings can help cities close the resource loop and reduce waste in the built environment.











Innovative Construction Materials – Singapore

The Wave, a sports hall in the Nanyang Technological University, is the first large-scale building to be constructed in Southeast Asia using Mass Engineered Timber (MET). MET is from Forest Stewardship Councilcertified sources only and also serves as a carbon sink via the carbon sequestered in the wood. Innovative construction materials like MET allow for faster and greener construction as its high strength-to-weight ratio makes it easier to handle, and it has a far smaller environmental footprint than traditional building materials like reinforced concrete or steel.

The Wave sports hall at the Nanyang Technological University can host three full-sized basketball courts or 13 badminton courts. Image: TODAY

