



Piezoelectric Fabric Flower

The fibers forming the weave are only 50 nanometres in diameter which is around 1,800 times thinner than a human hair. When the fabric is stretched, twisted, the wires rub against each other and the resulting tension and pressure is converted into electricity. The total estimated yearly output for this installation is calculated at 75,886 MWH per annum.



Photovoltaic Solar Power

A total of 150 of these flowers are proposed across the site and aim to provide an alternative energy source. Based on the local Mannheim climate it is expected that a higher yield can be expected in comparison with other parts of the country. As the quantity of these installations is much lower than the piezoelectric sculptures the total estimated yearly output for this installation is calculated at 316 MWH per annum.



MULTIFUNCTION LAWN (BIOSWALE)



PHOTOVOLTAIC SOLAR POWER

PIEZOELECTRIC FABRIC FLOWER



RAINWATER HARVESTING POND

