

THE MANGROVE BRIDGE

0C

\$2.405.000 USD TOTAL COST 168,000 WATTS PER YEAR COST / WATT INSTALLED =

OSA OS



flower & leaves of

Paper Flower Bougainvillea glabra

DUNES

HOLOGRAPHIC PHOTOVOLTAIC CANOPY

shaped like the mangrove flower, bifacial modules harvest sunlight on both faces of the pv cells, especially when mounted over the highly reflective sand below

WALKING SHADE B

S14

southwest-facing pv canopies + fabric create a shady, comfortable walking path while maximizing solar exposure for pv cells

MANGROVE MOUNTS

arching mangrove roots provide precedent for the support structure of the pv canopies

13

BRIDGE THE GRT C

a potential circulation conflict between pedestrians and the GRT is turned into an opportunity to collect solar energy with a light-weight concrete bridge + pv canopy



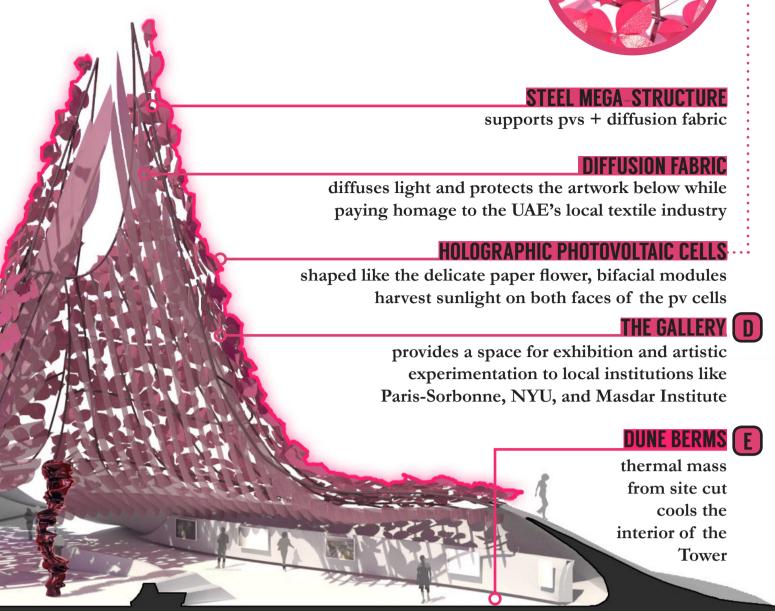


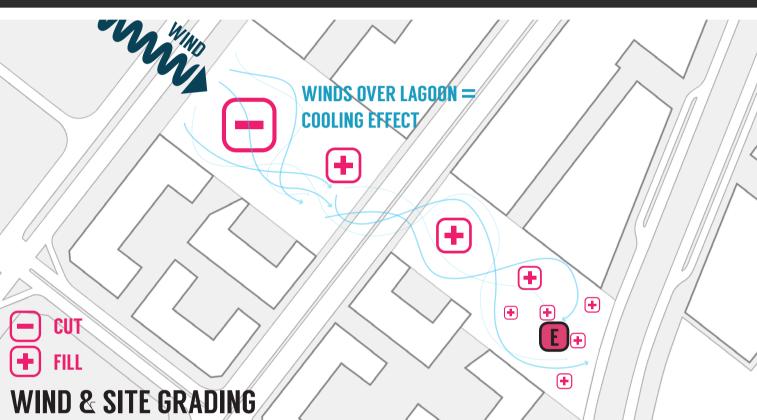




\$1,825,000 USD TOTAL COST 150,000 WATTS PER YEAR COST / WATT INSTALLED =

THE PAPER TOWER





THE GARDENS IN MASDAR CITY