

# THE PALM PODS

\$10.075.000 USD TOTAL COST  
1.310.000 WATTS PER YEAR  
COST / WATT INSTALLED = \$7.70 USD

**STEEL MEGA STRUCTURE**  
supports pvs + woven skeleton

**WOVEN STEEL SKELETON**  
supports concentrated pv system and acts as heat sink

**DIFFUSION FABRIC**  
diffuses light while paying homage to the UAE's local textile industry

**HOLOGRAPHIC PHOTOVOLTAIC CELLS**  
bifacial modules harvest sunlight on both faces of the pv cells, especially when mounted over highly reflective surfaces like sand

**GREENHOUSE** A  
like a palm oasis, the diffused light allows fruit trees and crops to flourish inside the pod

**LANDFORM AND ENTRANCE**  
houses electrical transformers and acts as a heat sink for the entire structure

seed pod of Date Palm  
*Phoenix dactylifera*

# THE MANGROVE BRIDGE

\$2.405.000 USD TOTAL COST  
168.000 WATTS PER YEAR  
COST / WATT INSTALLED = \$14.30 USD

**flower & roots of Grey Mangrove**  
*Avicennia marina*

**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  
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

**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

# THE PAPER TOWER

\$1.825.000 USD TOTAL COST  
150.000 WATTS PER YEAR  
COST / WATT INSTALLED = \$12.20 USD

**flower & leaves of Paper Flower**  
*Bougainvillea glabra*

**STEEL MEGA STRUCTURE**  
supports pvs + diffusion fabric

**DIFFUSION FABRIC**  
diffuses light and protects the artwork below while paying homage to the UAE's local textile industry

**HOLOGRAPHIC PHOTOVOLTAIC CELLS**  
shaped like the delicate paper flower, bifacial modules harvest sunlight on both faces of the pv cells

**THE GALLERY** D  
provides a space for exhibition and artistic experimentation to local institutions like Paris-Sorbonne, NYU, and Masdar Institute

**DUNE BERMS** E  
thermal mass from site cut cools the interior of the Tower

