

THE 5 ELEMENTS ENERGY GATEWAY

SITE PLAN DETAILS

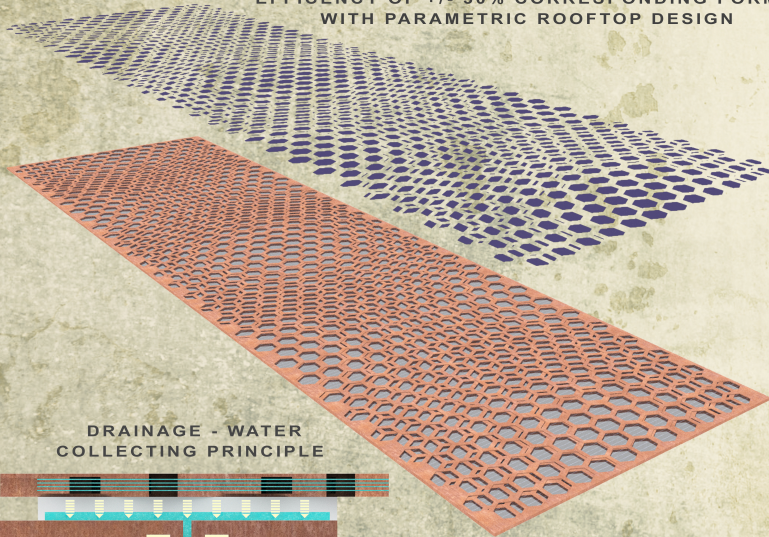
THE TECHNOLOGIES USED IN THE DESIGN PROCESS ARE BASED ON THE 5 ELEMENTS WOOD, FIRE, METAL, WATER AND EARTH WHICH ARE DIRECTLY DERIVED FROM NATURE

CLAY ROOFTOP AND WALL CONSTRUCTION
(MAXIMAL ROOFTOP HEIGHT 45 METERS)

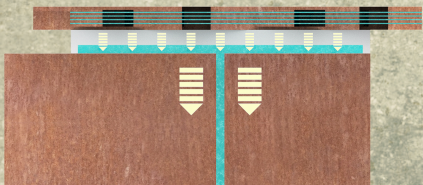


PRINTED DIE CUT ORGANIC SOLARCELLS CAN OPERATE WITH HIGHER EFFICIENCY THAN CONVENTIONAL SOLAR PANELS. THEY WORK EVEN DURING LOW LIGHT INTENSITY (e.g. DAWN AND CLOUDS). THE PRODUCTION PROCESS WILL BE CHEAPER AND ELEMENTS CAN BE MANUFACTURED ON SITE

PRINTED AND DIE CUT ORGANIC FLEXIBLE PEROWSKIT SOLAR CELL LAYERS WITH AN ESTIMATED EFFICIENCY OF +/- 30% CORRESPONDING FORMAL WITH PARAMETRIC ROOFTOP DESIGN



DRAINAGE - WATER
COLLECTING PRINCIPLE



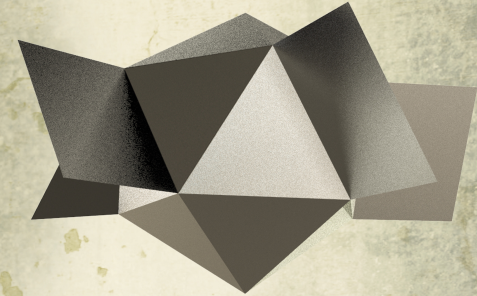
ROOFTOP CLAY AND WALL
CONSTRUCTIONS COMBINED WITH
PARAMETRIC DESIGN AND INNER
WOODEN STRUCTURE PROVIDES
ADDITIONAL STATIC RELIABILITY

LAYERS INSIDE THE ROOF TOP HEAT UP WHEN SOLAR RADIATION IS HIGH AND COOLING DOWN WHEN TEMPERATURE FALLS - THE GENERATED CONDENSED WATER WILL BE COLLECTED AND LEAD DOWN THROUGH SIDEWALLS BY DRAINAGE SYSTEM TO SUPPLY PLANTS IN RECREATION ZONE



CONCEPT COMPONENTS

AN ICONIC ICOSAHEDRON SHAPED VERTICAL MOUNTED TITANIUM WINDTURBINE WITH A 360° SPIN AROUND Z AXIS GENERATES AN ESTIMATED CAPACITY OF +/- 300WATTS PER UNIT



150 ICOSAHEDRON SHAPED WINDTURBINES AND ONE MASTER TURBINE ON TOP ARE ARRANGED IN FOUR RECTANGULAR TITANIUM GRIDS OF 28 x 21.5 METERS FORMING A KINETIC SUPER STRUCTURE - WHILE THE WIND INTERACTS WITH THE ICOSAHEDRONS SPECTACULAR OPTICAL AND AUDIBLE IMPRESSIONS ARISING FROM DIFFERENT VIEWANGLES

