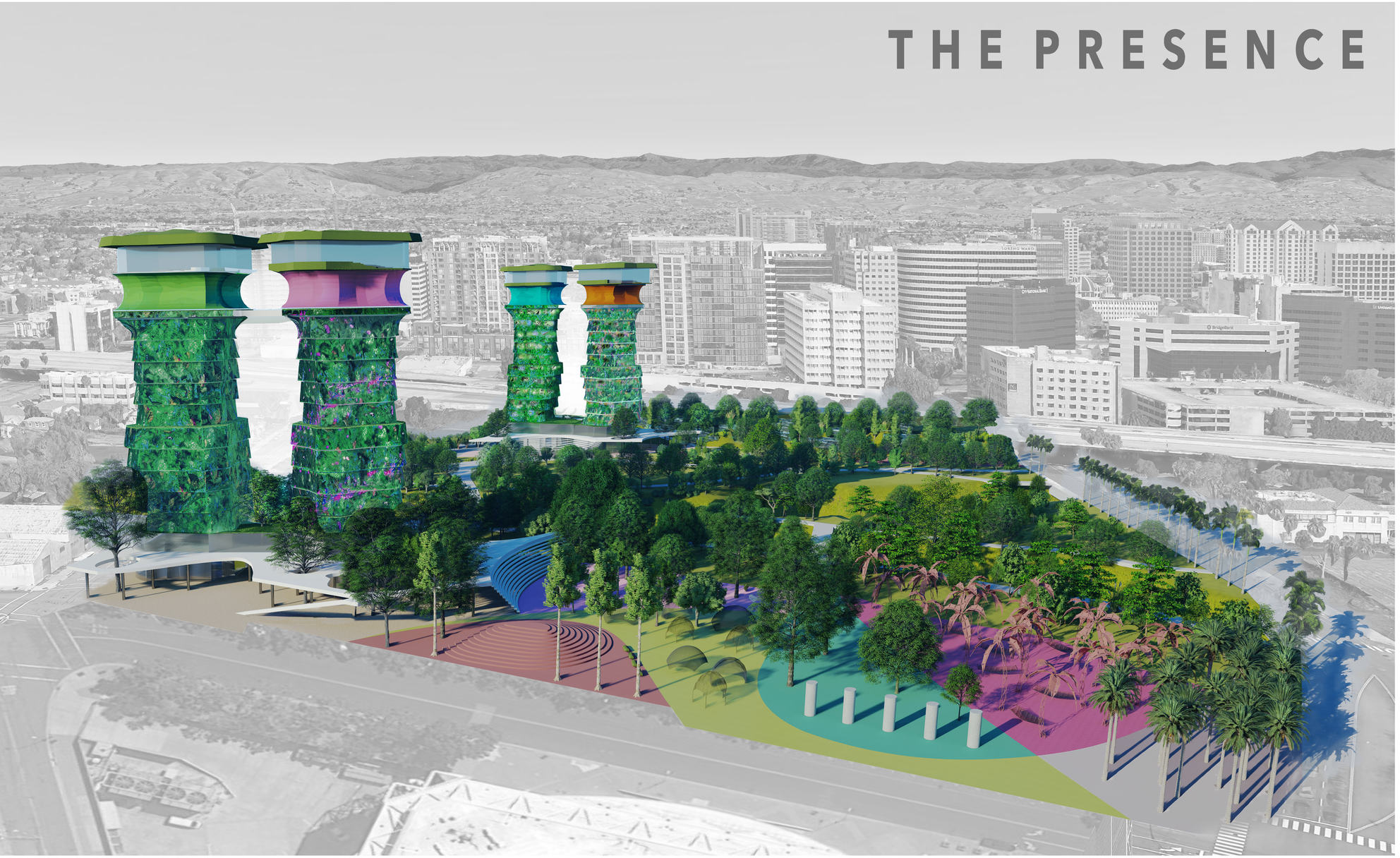
THE PRESENCE



NEKAKAV NATPIS

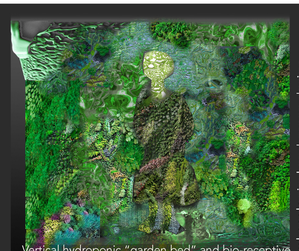
Net zero
Surface area, vertical
circa 328 ft (perimeter) x 200 ft
(height) = 65 600 ft2 one tower
X 4 = 262 400 ft2
All four ====> 262 400 ft2
vertical green surfaces

Roof surface area
One - circa 79 ft x 98 ft = 7 742 ft2
All four – 4 x 7 742 ft2 ====> 31 000 ft2
'Solar' surfaces in park: east noise barrier plus 'palm' and 'tent' roofs ====> 32 292 ft2
Total ====> 63 292 ft2

Daily Energy Usage
Watt Hours per Day: 3 000 000
watts per panel: 400
2709 panels needed for a total of 1 083 600 watts
3 000 000 Wh daily
30 x 3M = 90 000 000 Wh monthly
1 080 000 000 Wh yearly
1 080 000 KWh yearly
2709 panels needed, and we have place for 94 292 ft2 : 17,8 ft2 = 5 297 panels
(if placed horizontally, but on the roofs the placement will be in by an angle, thus saving more space and enabling more panels)

Perimeter of floors
circa 48 x 100 m'
4800 m' ====> useful ¼ (south) = 1200 m'
====> 12917 ft'
Plus needed height circa 1,2 m' ====> 12.9 ft'
X 2 (two rowes min.)
Area 2 880 m2 ====> 31 000 ft2
Solar area total
63 292 + 31 000 ft2 ====> 94 292 ft2
Approx. consumption
Daily 2000 KWh by floor (as one luxurious house, very exaggerated, like 2.5 x)
40 x 2000 = 80 000 KWh monthly
80 000 x 12 = 960 000 KWh yearly
1 panel à 400 W. Size 65" x 40" = 17,8 ft2
average sun-hours for San Jose location = 3.6

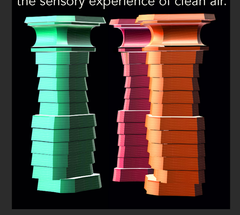
Plus there will be energy produced from bladeless small wind turbines placed on roofs which are well-suited as a complementary energy source to an existing off-grid power system.
Also, buildings will have integrated thermal mass for providing reductions in both heating and cooling consumption.
Then, outter perimeters of the floors will be designed that way that while illuminated, the lights will feed solar cells places beneath, thus recharhing them at the same time.



Vertical hydroponic "garden bed" and bio-receptive facade based on continuous basalt fiber

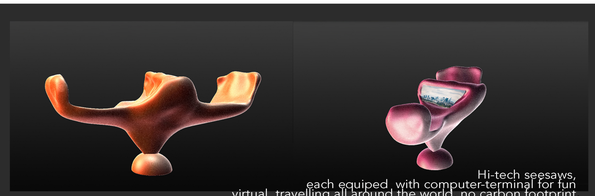
The facade due to its integral ecological and green design positively impacts the environment.

Air-cleaners: setting a new sense of beauty -- a clean future -- through the sensory experience of clean air.

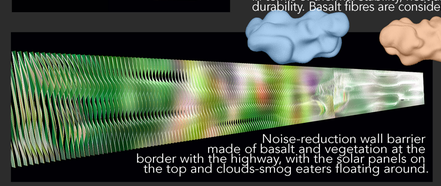


Passages through the bulding

BASALT
Basalt is known for its excellent mechanical properties, resistance to moisture absorption, resistance to corrosive liquids and environments, durability in service and great versatility. Comprised of single-ingredient raw material melt, basalt fibers are superior to other fibers in terms of thermal stability, heat and sound insulation properties, vibration resistance and durability. Basalt fibres are considered as environment friendly and non-hazardous material.

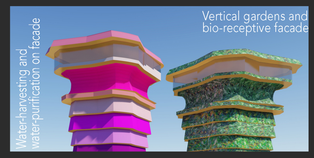


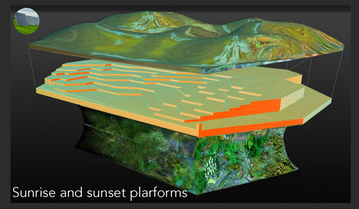
Hi-tech seesaws,
each equiped with computer-terminal for fun virtual travelling all around the world, no carbon footprint.



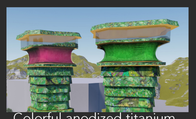
Noise-reduction wall barrier
made of basalt and vegetation at the border with the highway, with the solar panels on the top and clouds-smog eaters floating around.

Wind turbines

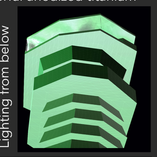




Sunrise and sunset plarforms



Colorful anodized titanium



Lighting from below

Basalt fabric retreats

Hammock park in between artificial palms with time-table displays for near-by stations. Top of palms – solar panels.

Current vegetation is mainly kept and it shows even in interiors

THE PRESENCE

SCALE 1"= 40'

0 30 60 120

(SCALE IN FEET)

GREEN TOWER LOBBY

PASSAGE

WEST ENTRANCE

PINK TOWER LOBBY

HORTI CULTURE CLUB

PARKING

PERFORMING AREA

NEW HILLOCK

SEESAW TRAVELS

BASALT RETREATS

SCULPTURE GARDEN

HAMMOCK PARK

PALM PLAZA

SAP CENTER

BLUE TOWER LOBBY

PASSAGE

HORTI CULTURE CLUB

ORANGE TOWER LOBBY

HIDE AND SEEK

BASALT RETREATS

POLY VALENT PLAY GROUND

AIR CLEANERS

A

B

C

D

E

F