green office

corporate vision project development physical environmentastructure energy management resource management material management quality of life innovation







media publicity energy conomy supply ademand energy ecopreneurist

project development

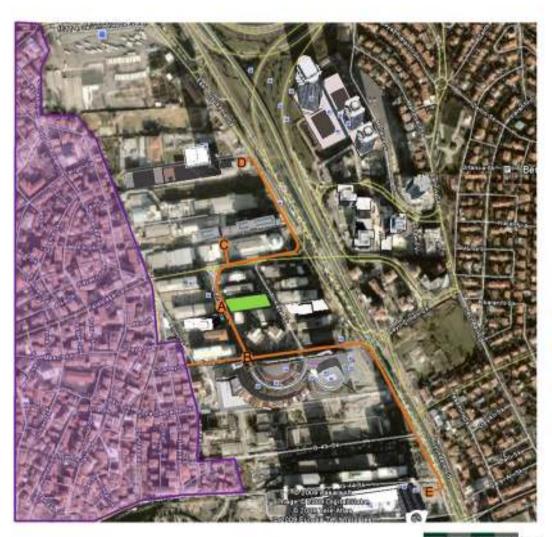
agenda for design, construction, marketing and operation;



project development

site selection - **LEVENT**; proximity to transportation, urban centres, existing infrastructures / protection of green lands&river basins

SSc2. Development Density & Community Connectivity



Levent Office Building is located close to office towers, shopping centers and residential areas.

Leed SSC.2. Credit requires that there should be a residential region which has at least 10 houses per acre (app. 4000 m2) within 1/2 mile (app. 800 m) radius. In addition, there should be at least 10 accommodation units within 1/2 mile (app. 800 m) radius that are listed below:

. Bank . Social Areas . Parc
. Residence. Library . Health Care Center . Pharmacy
. Coiffeur . Laundry . Dry Cleaner
. School . Office Building . Supermarket
. Mosque . Restaurant . Fire Station

Attachments that will be added to this narrative :

Info. about Kanyon Info. about Tekfen Tower Info. about Metro City Info about Loft

A Building Site D Tekfen Tower (Office Tower)

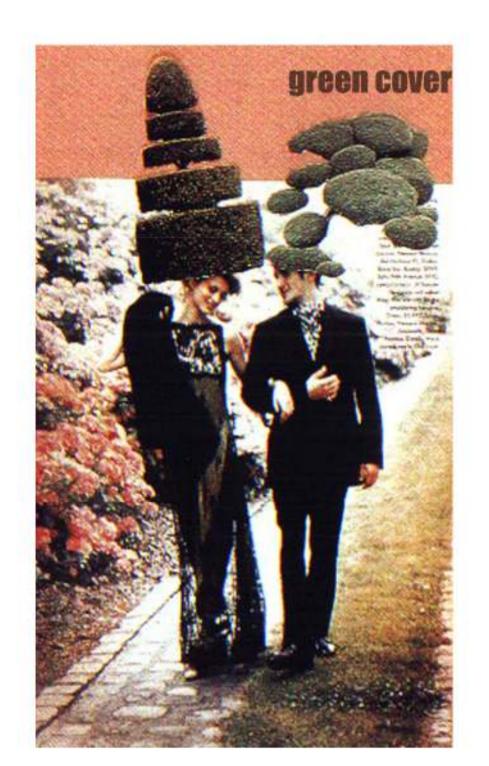
B Kanyon E Metro City

C Residence (Loft) Building Site Residential

Distance from A to B: 150 m Distance from A to C: 140 m Distance from A to D: 345 m Distance from A to E: 670 m

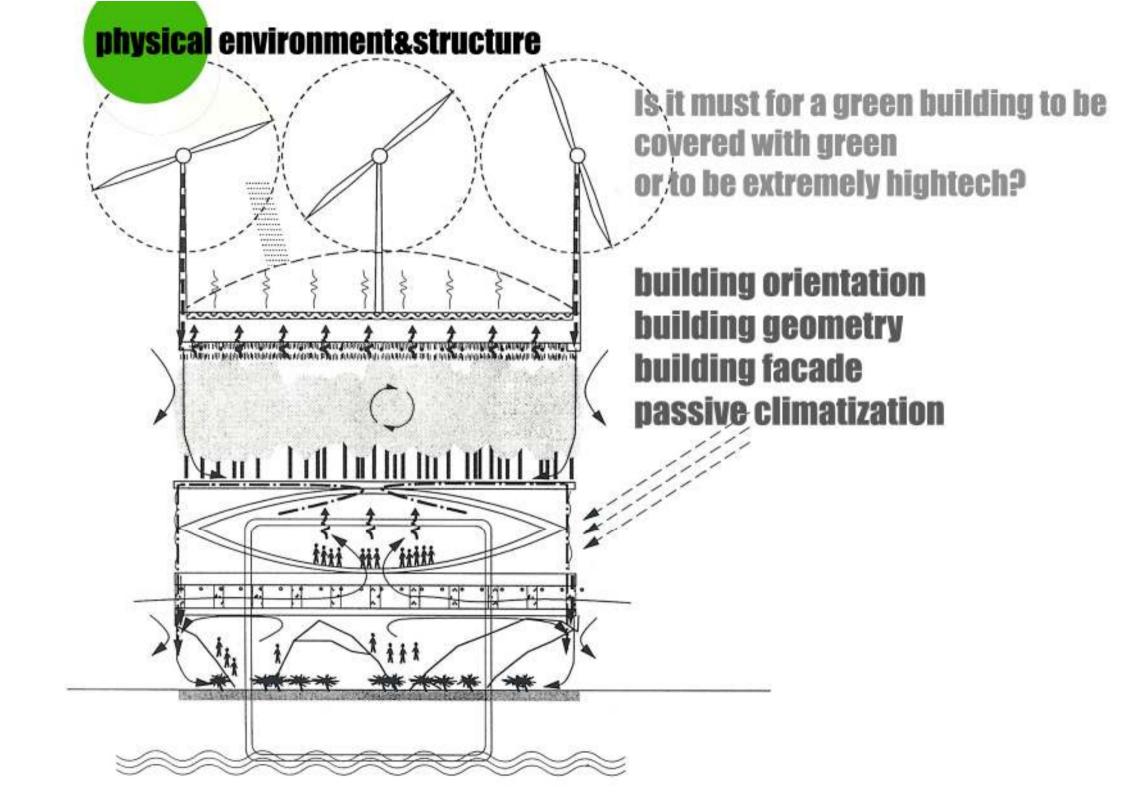
Distance from A to residential area: 270 m

e e design









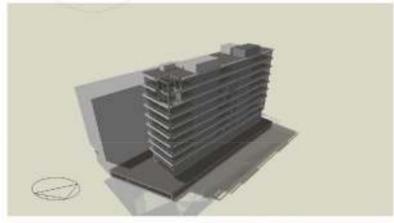


Figure 5: DesignBuilder 3-D Model of the Building (180° Degree)



Figure 6: DesignBuilder 3-D Model of the Building (270° Degree)

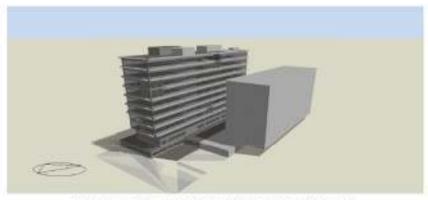


Figure 3: DesignBuilder 3-D Model of the Building (0° Degree)

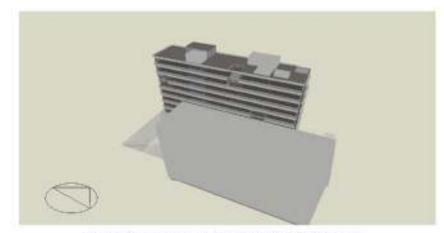
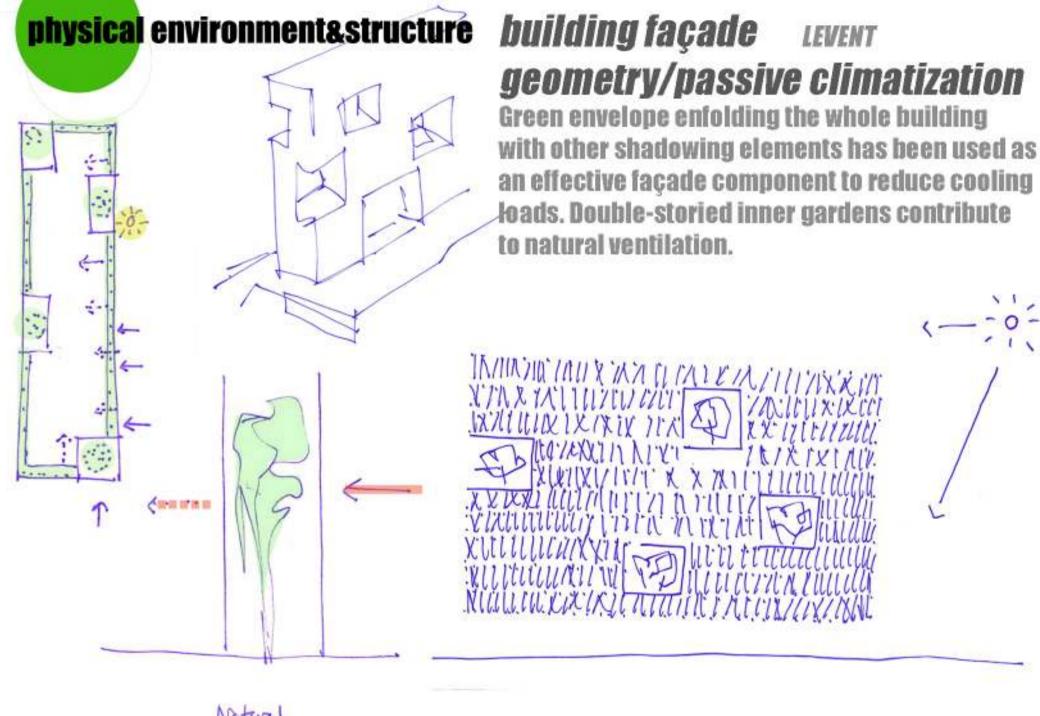


Figure 4: DesignBuilder 3-D Model of the Building (90° Degree)

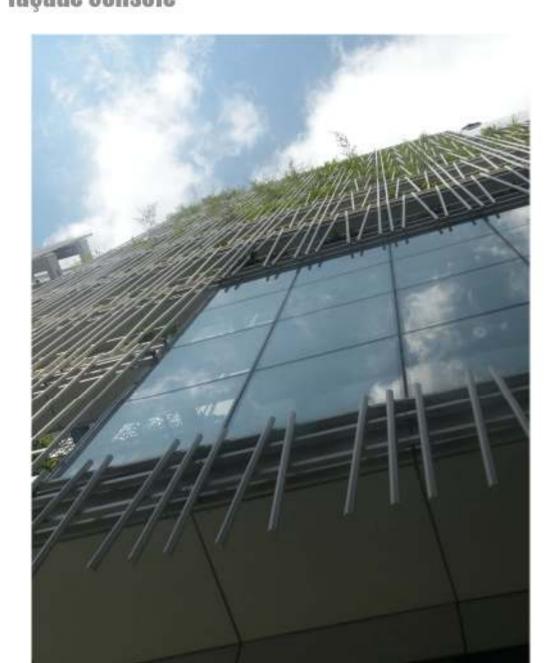
orientation *LEVENT*decreasing west facade area in order to reduce cooling load



Natural Air Conditioning

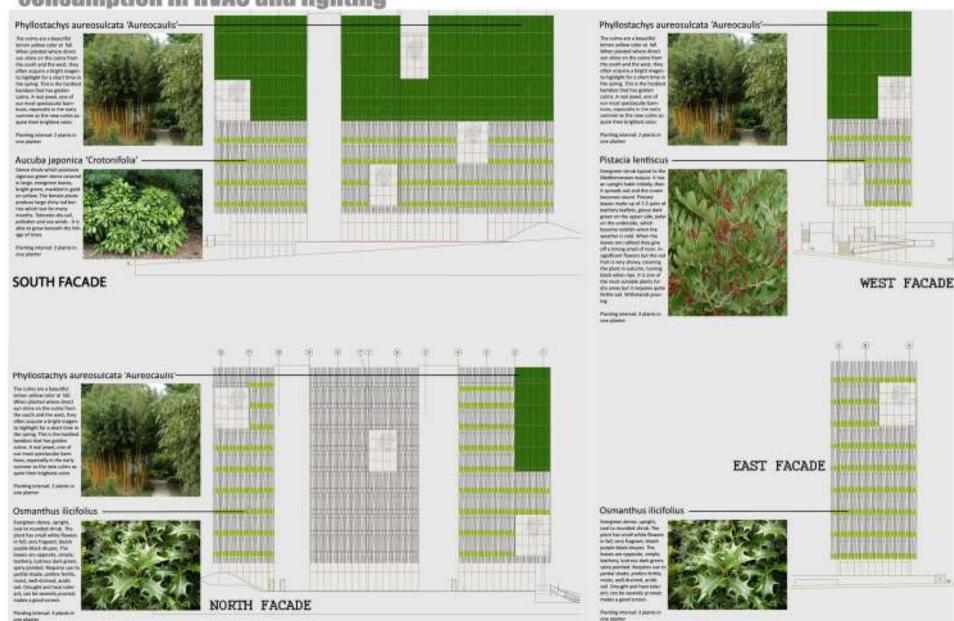
building façade Levent geometry/passive climatization façade console





building façade Levent

/utilization of plantation benefiting from daylight at most/contributing to shadowing /optimization of energy consumption in HVAC and lighting



energy management

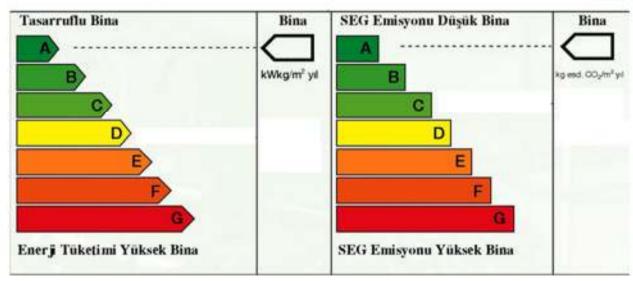
energy efficient HVAC design

free cooling&mechanical equipment with high COP

selection of compatible engineering standards in oder to optimize energy consumption while achieving high quality of life

automation/smart management of energy systems armature efficiency

Levent Office is %34,7 more efficient in kWH compared to the baseline case that is simulated according to the ASHRAE90.1-2004



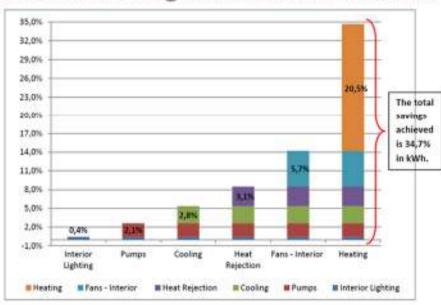


Figure 13: Optimized Performance incrementally achieved by various EEM (in kWh)

resource management

water efficiency;

- efficient armatures
- grey water treatment
- rainwater storage supporting irrigation
- vegetation with less need for irritation
- efficient irrigation systems(drip irrigation)



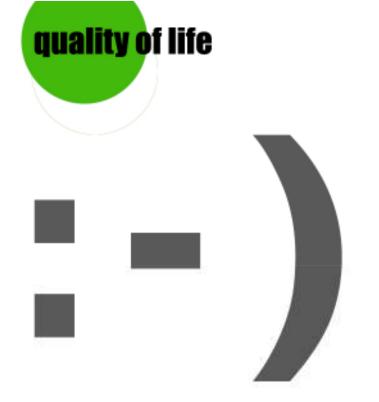




WATER USE SUMMARY

Baseline Case - Annual Water Consumption (gal):	1,128,232	gallons/year
Design Case - Annual Water Consumption (gal):	958,591	gallons/year
Total Annual Non-Potable Water Consumption (gal):	384,336	gallons/year
Total Water Savings:	49.1	96

For credit compliance, a water savings of at least 20% earns 1 LEED point, and a water savings of at least 30% earns 2 LEED points.



thermal comfort indoor air quality daylight&view low-emitting materials(adhesives, paints&coatings, carpets, composite wood) indoor chemical&pollutant source control controllability of systems, thermal comfort

inovation

divergent organization schemes proactive strategies&agendas







exemplary performance specialization exceeding international standards