

UNITECH HEADQUARTERS NOIDA – UNITECH GROUP

# MAXIMIZING DAYLIGHT AND SHADE

The Unitech Headquarters in Gurgaon is envisioned as a key reflection of the company's industry position, staying power and vision. The 12,600m<sup>2</sup> five-story structure is immediately identified by a 25m high, glazed, hovering canopy over a large landscaped entry court. The canopy includes building integrated photovoltaics (BIPV), generating 2.5% of the building's energy use, providing shading along the south façade and rain protection for the entry plaza. The 2,300m<sup>2</sup>+ floor plates are defined by a wedge shaped, multi-story, linear atrium that bathes the interior with abundant, yet controlled natural light. The building features state-of-the-art, high performance enclosure systems and equipment. LEED Platinum has been identified as a performance bench mark.



## CLIENT

Unitech

## LOCATION

Gurgaon, India

## CLIMATE

Sub-tropical, hot and humid summers.  
Cold and foggy winters

## SPECIFICATIONS

5 Floors, with Full-Height Atrium  
Above Ground, Total Area: 12,600m<sup>2</sup>  
Site Area: 8,400m<sup>2</sup>  
Structural Grid: 10.60m x 8.40m

## SUSTAINABLE DESIGN STRATEGIES

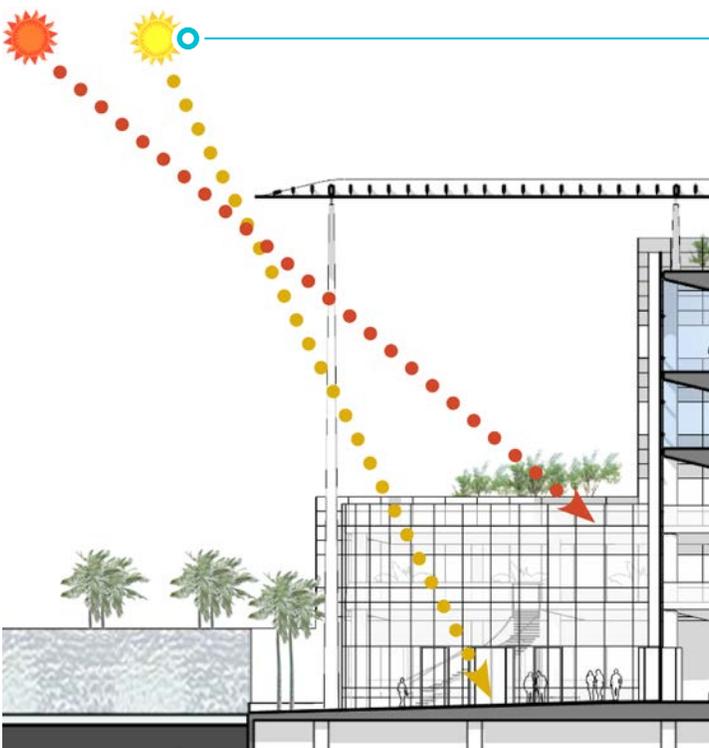
Exterior solar shading  
Heliostats maximize daylight penetration  
South plaza shading  
Canopy-integrated photovoltaics  
High performance enclosure  
E&W façade low window-to-wall ratio  
Dark-sky site lighting  
Sensor controlled interior lighting  
Rain water harvesting  
On-site sewage treatment  
Water efficient plumbing fixtures  
Energy efficient mechanical equipment

## LEED CERTIFICATION

LEED Platinum by IGBC  
(pending)

The south façade is conceived as a fully transparent skin that links the interior of the building to the adjacent, landscaped entry plaza.

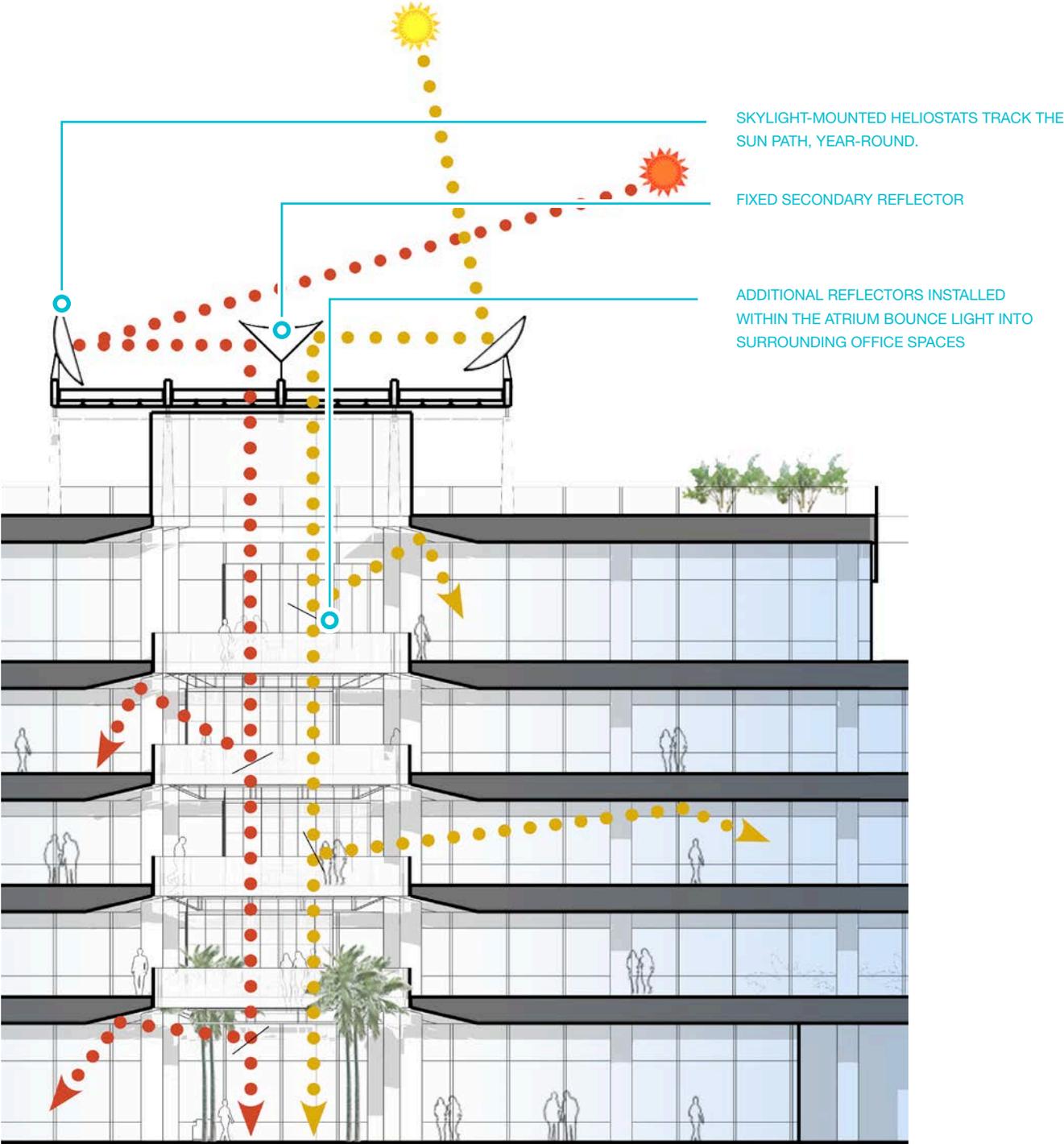
ATRIUM AND CANOPY : LONGITUDINAL SECTION



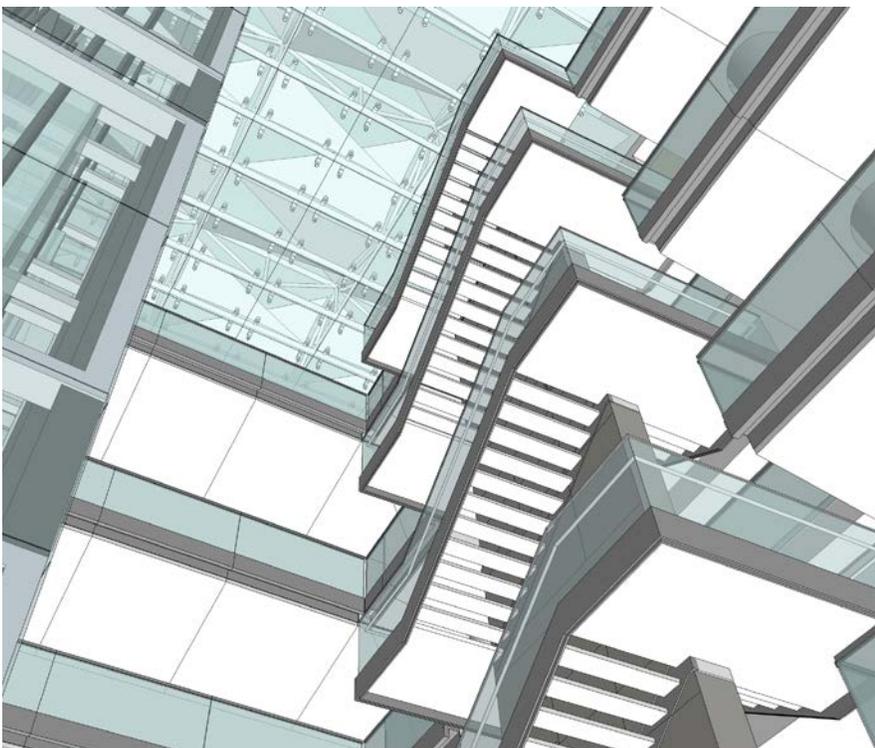
FROM BOTH SOLAR EXTREMES (DECEMBER TO JULY) THE SOUTH FACE RECEIVES A MINIMUM OF 80% SHADING

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## HELIOSTATIC LIGHTING SYSTEM



## LIGHT-FILLED ATRIUM SPACE



Suspended and staggered bridges articulate a kinetic quality to the interior ambiance. Glazed elevators and stairs allow convenient vertical transportation and connectivity within the voluminous central space.