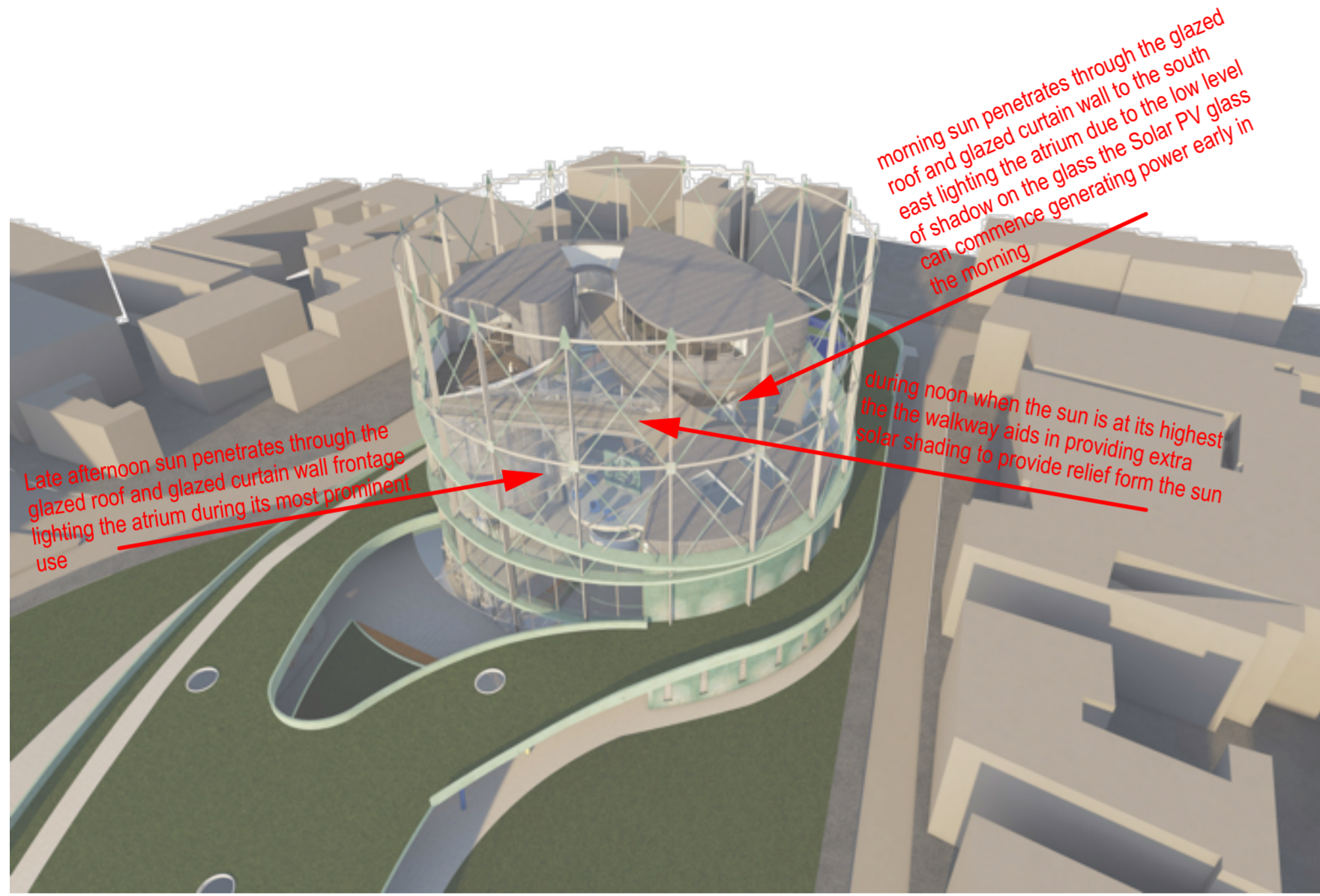


The Jersey Youth Holder benefits from being isolated from all surrounding buildings with only one building the Grande Marche even coming close in height located to the north east of the site. This ensures that the building does not suffer from overshadowing as highlighted in the sun study taken during June. You can see from the sun study most of the light directed internally reaches the climbing wall and the public gallery space. The semi-transparent climbing wall will act as a glowing wall as the sunlight penetrates it to provide a warm ambient lighting for the gallery spaces.

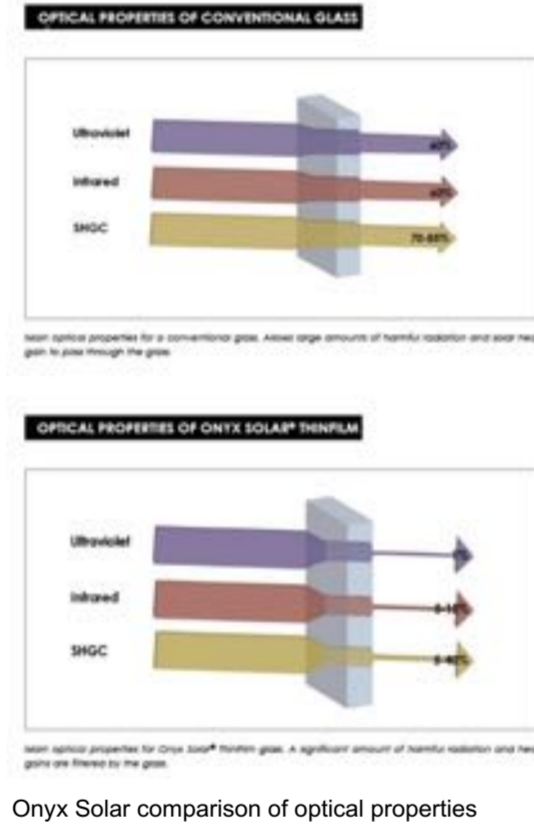
The Jersey Youth Holders isolated location ensures there is no future threat of being overshadowed ensuring the implementation of a Solar Photovoltaic glass roof over the atrium allows for sunlight to enter the core of the Jersey Youth Holder throughout the day.



3D aerial view indicating solar PV glass

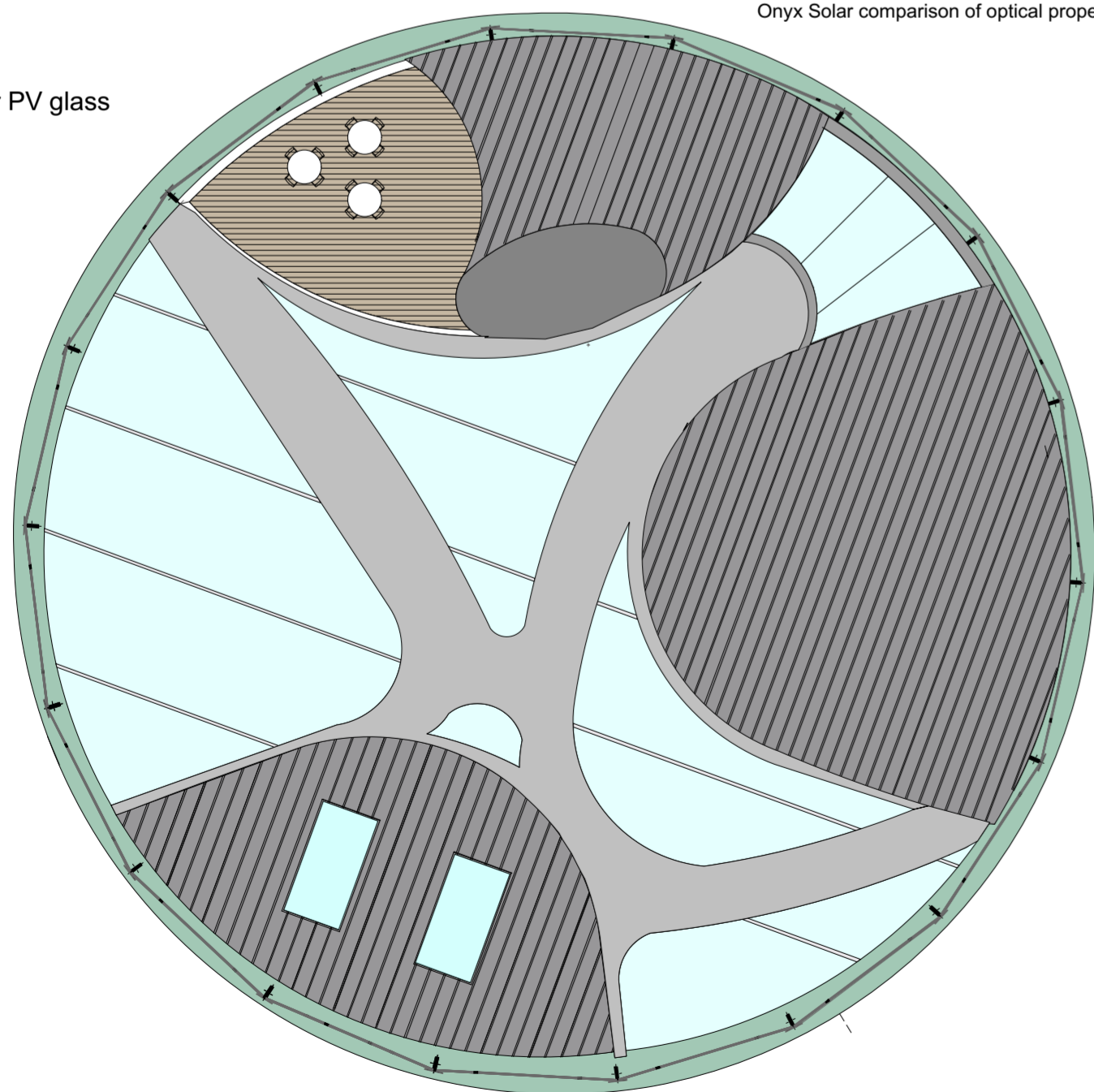
The Jersey youth holder roof follows a 15 degree fall to the south with the southern pod being the lowest to limit solar shading. The eastern and northern pods follow the 15 degree rise and achieve a full floor above the glass. The two pods location provide very little overshadowing as indicated in the sun study.

To avoid overheating within the Jersey Youth Holder the Solar thin film PV glass provides a huge reduction in ultraviolet, infrared and SHGC (Solar Radiation) when compared to conventional glazing. This reduction of harmful ensures that the atrium space is provided with natural light without causing harm to the habitants or by creating a green house effect.

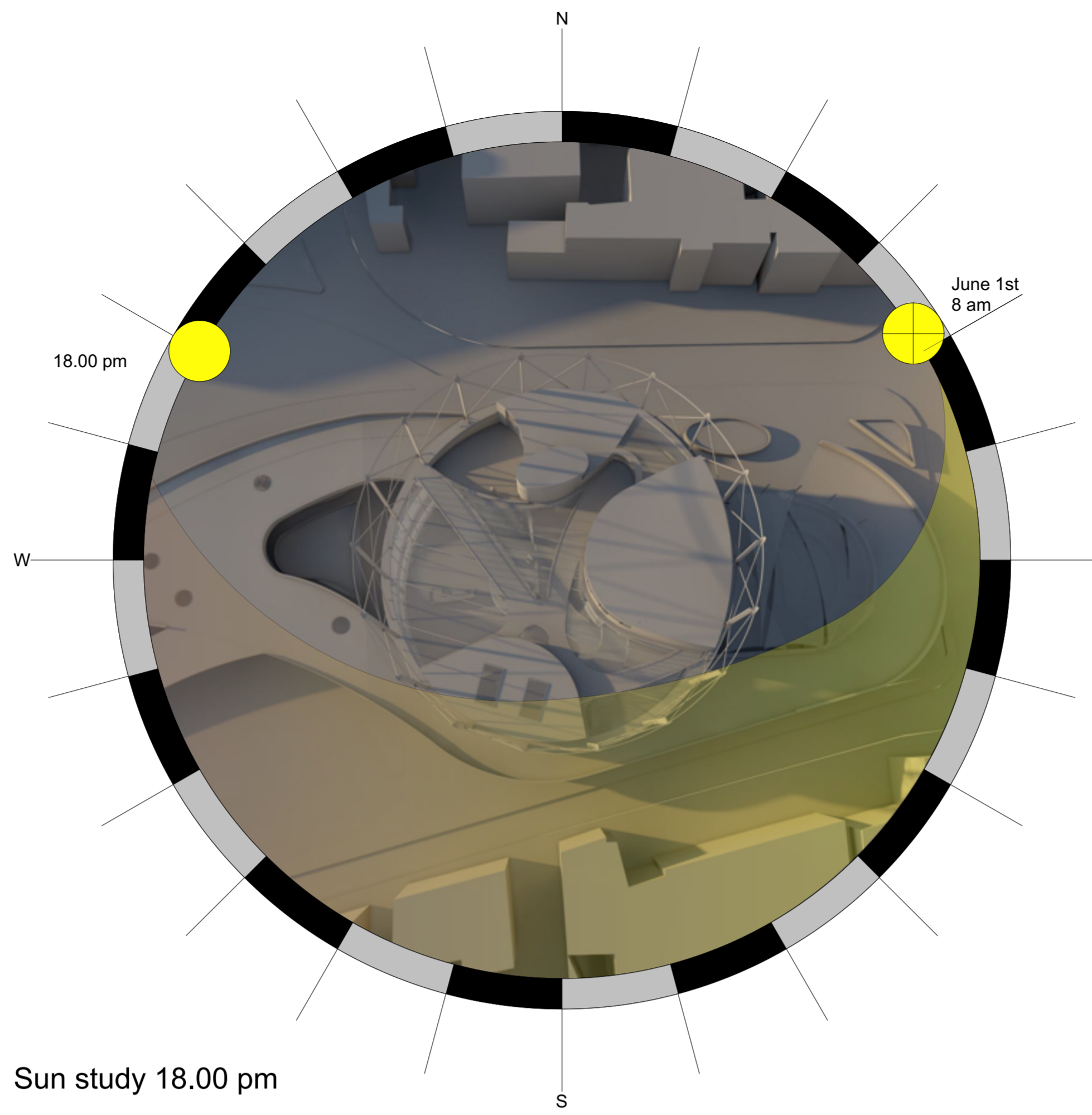


Key

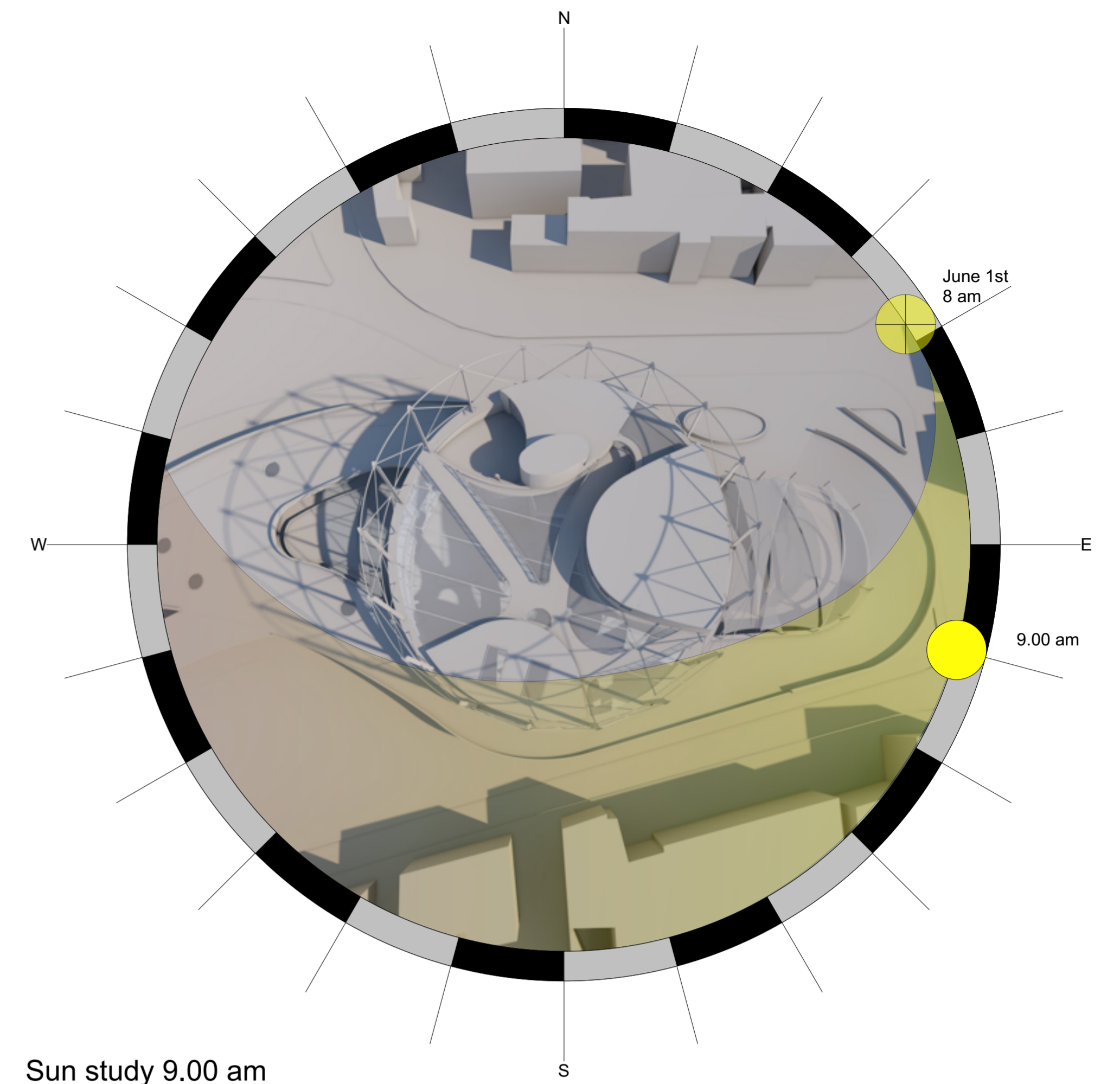
Solar PV glass



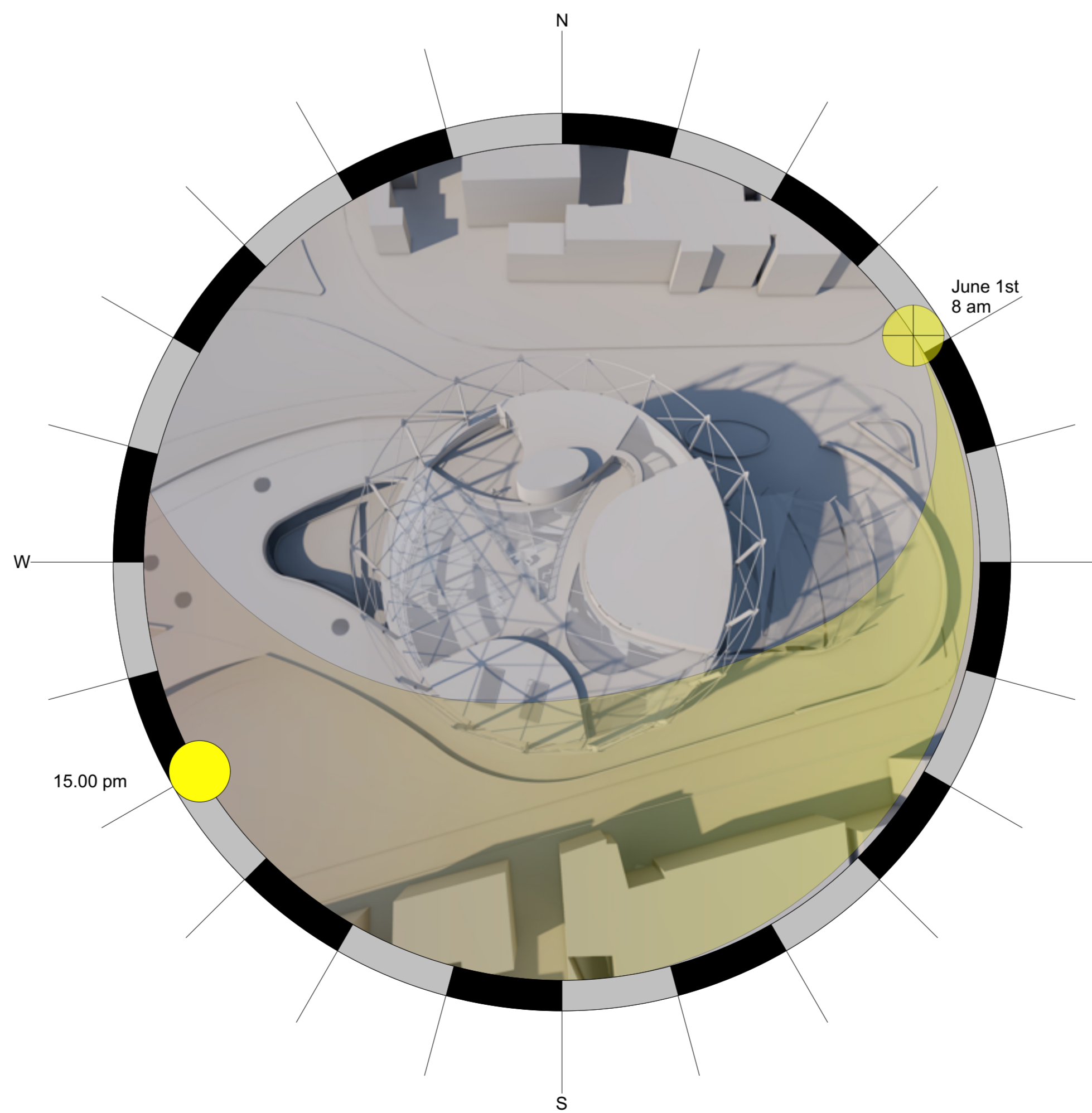
Roof plan indicating solar PV Glass position



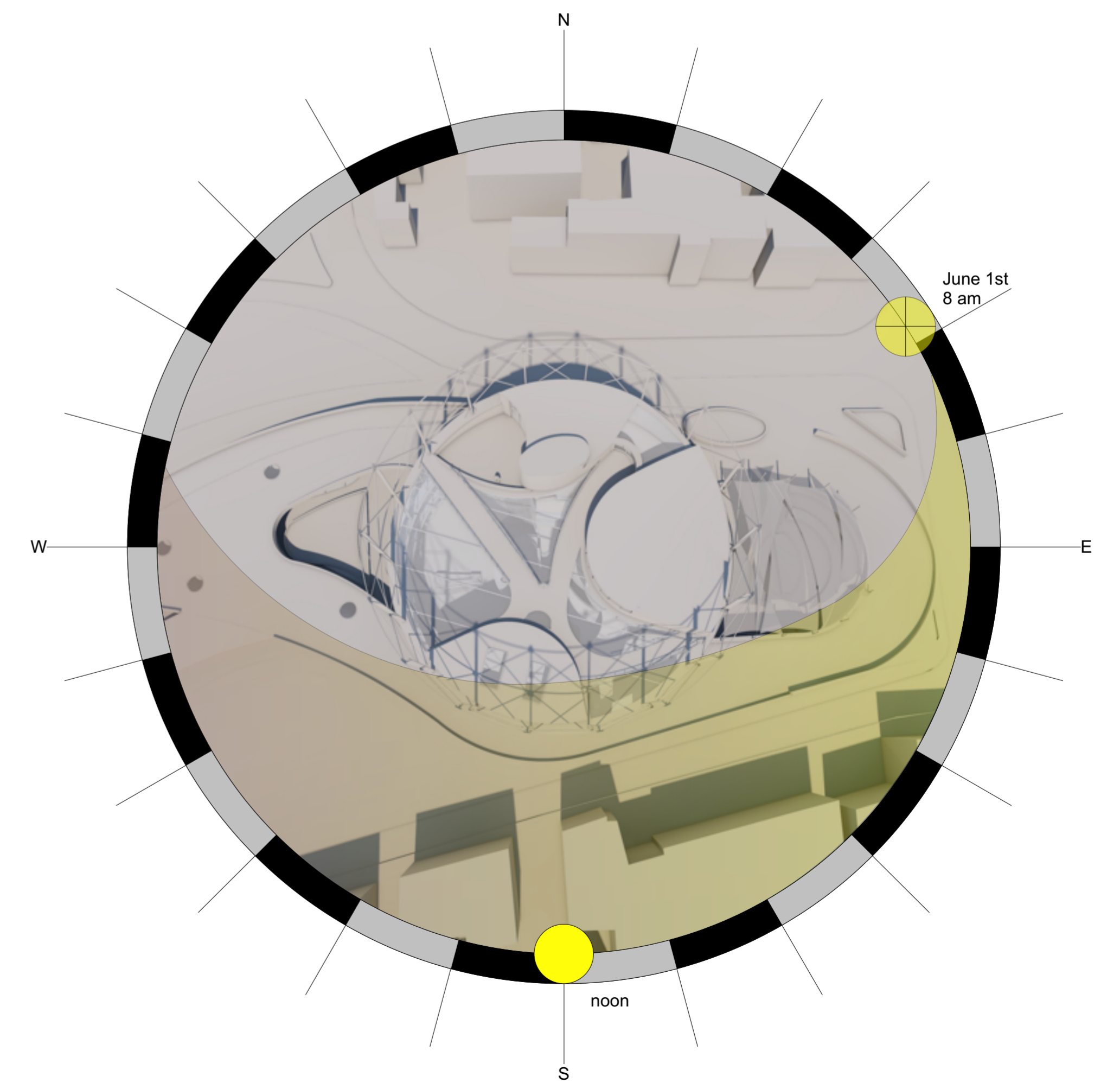
Sun study 18.00 pm



Sun study 9.00 am



Sun study 18.00 pm



Sun study 9.00 am