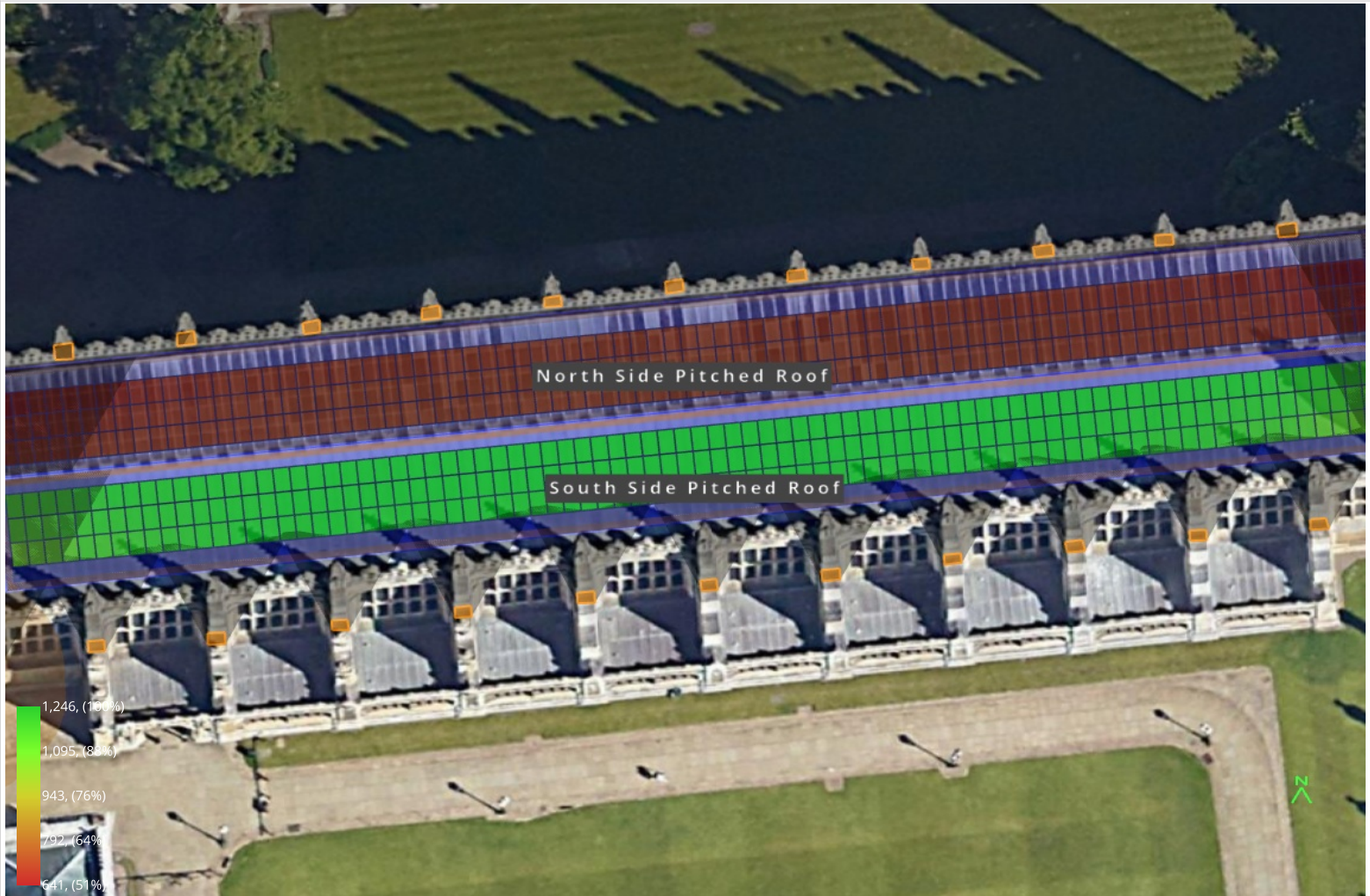


## Design 2.2 REC 255 BLK King's College, Kings College cambridge

### Shading Heatmap



### Shading by Field Segment

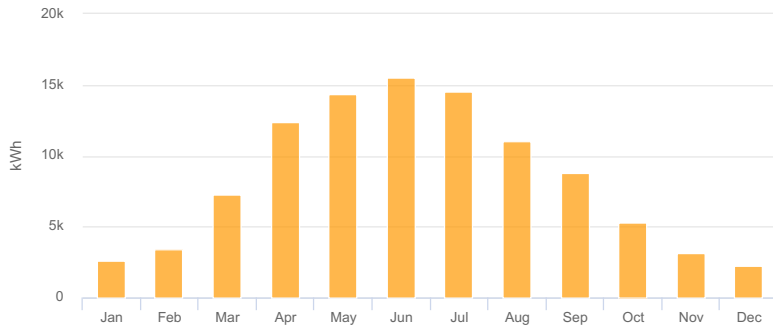
Description	Tilt	Azimuth	Modules	Nameplate	Shaded Irradiance	AC Energy	TOF <sup>2</sup>	Solar Access	Avg TSRF <sup>2</sup>
South Side Pitched Roof	24.0°	174.0°	246	62.7 kWp	1,218.1 kWh/m <sup>2</sup>	62.0 MWh <sup>1</sup>	99.6%	98.2%	97.8%
North Side Pitched Roof	24.0°	354.0°	246	62.7 kWp	732.9 kWh/m <sup>2</sup>	38.4 MWh <sup>1</sup>	60.0%	98.0%	58.8%
Totals, weighted by kWp			492	125.5 kWp	975.5 kWh/m <sup>2</sup>	100.4 MWh	79.8%	98.1%	78.3%

<sup>1</sup> approximate, varies based on inverter performance  
<sup>2</sup> based on location Optimal POA Irradiance of 1,245.9 kWh/m<sup>2</sup> at 40.4° tilt and 182.6° azimuth

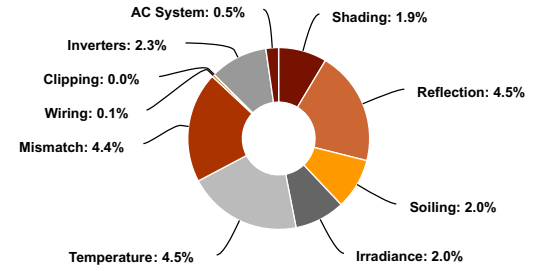
### Solar Access by Month

Description	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
South Side Pitched Roof	96%	97%	97%	99%	99%	99%	99%	99%	98%	96%	96%	96%
North Side Pitched Roof	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%
Solar Access, weighted by kWp	96.4%	97.2%	97.7%	98.6%	98.7%	98.5%	98.5%	98.6%	97.8%	96.6%	96.6%	96.1%
AC Power (kWh)	2,590.9	3,365.5	7,256.5	12,387.0	14,334.7	15,523.9	14,539.3	11,002.6	8,753.2	5,284.2	3,139.9	2,241.5

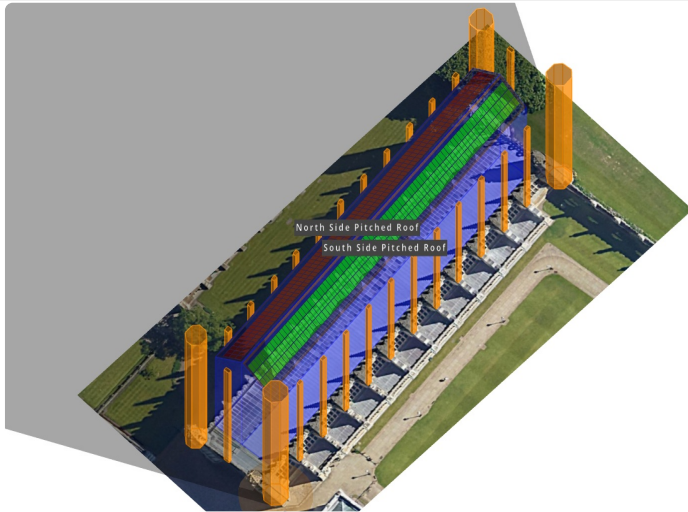
### Monthly Production



### Sources of System Loss



### Southwestern Angle



### Southeastern Angle

