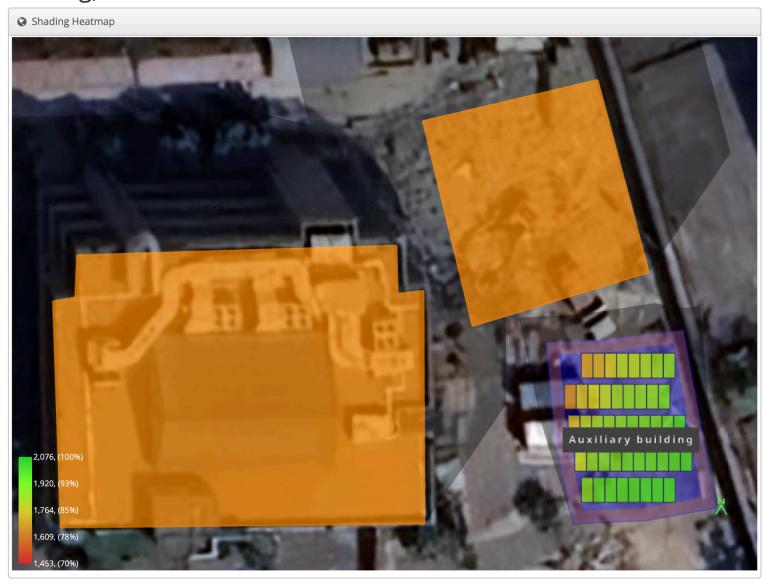


## Design 45KVA inverter power backup and solar solution (Auxiliary building) world Bank, ECOWAS SECRETETIATE ABUJA



Shading by Field Segment										
Description	Tilt Azimuth		Modules	Nameplate	Shaded Irradiance	AC Energy	TOF <sup>2</sup>	Solar Access	Avg TSRF <sup>2</sup>	
Auxiliary building	10.0°	180.0°	45	27.0 kWp	1,866.5kWh/m <sup>2</sup>	41.5 MWh <sup>1</sup>	99.8%	90.1%	89.9%	
Totals, weighted by kWp			45	27.0 kWp	1,866.5kWh/m <sup>2</sup>	41.5 MWh	99.8%	90.1%	89.9%	
<sup>1</sup> approximate, varies based on inverter performan									on inverter performance	

<sup>1</sup> approximate, varies based on inverter performance <sup>2</sup> based on location Optimal POA Irradiance of 2,075.9kWh/m<sup>2</sup> at 17.9° tilt and 175.0° azimuth

■ Solar Access by Month												
Description	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
Auxiliary building	92%	91%	90%	89%	89%	88%	88%	89%	89%	90%	92%	93%
Solar Access, weighted by kWp	92.3%	91.1%	89.6%	89.0%	89.2%	87.9%	87.8%	88.7%	89.1%	89.8%	91.8%	92.8%
AC Power (kWh)	3,939.8	3,377.6	3,900.3	3,585.3	3,378.7	2,905.3	2,735.5	2,850.1	3,112.6	3,798.8	3,950.8	3,963.1



