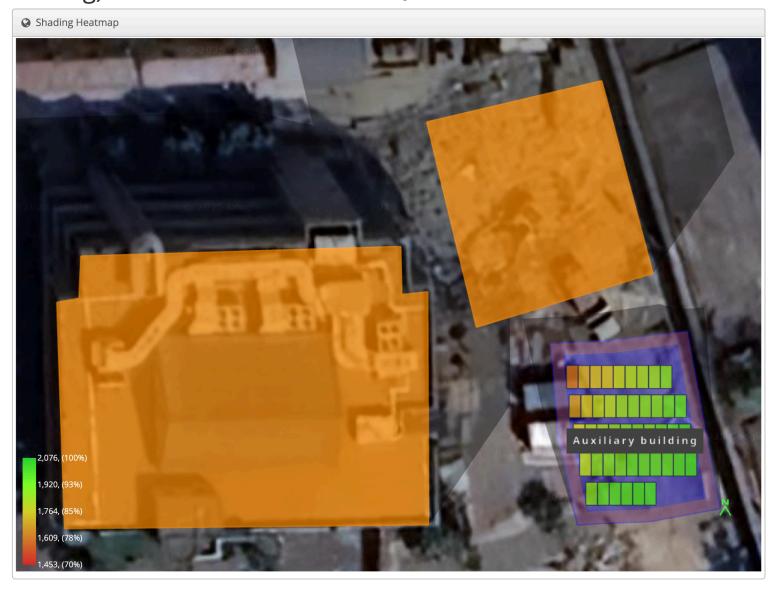


Design 45KVA inverter power backup and solar solution (Auxiliary building) world Bank, ECOWAS SECRETETIATE ABUJA



Shading by Field Segment										
Description	Tilt	Azimuth	Modules	Nameplate	Shaded Irradiance	AC Energy	TOF ²	Solar Access	Avg TSRF ²	
Auxiliary building	10.0°	180.0°	45	24.8 kWp	1,865.7kWh/m ²	38.0 MWh ¹	99.8%	90.1%	89.9%	
Totals, weighted by kWp			45	24.8 kWp	1,865.7kWh/m ²	38.0 MWh	99.8%	90.1%	89.9%	
¹ approximate, varies based on inverter performar									ed on inverter performance	

 $^{\rm 1}$ approximate, varies based on inverter performance $^{\rm 2}$ based on location Optimal POA Irradiance of 2,075.9kWh/m² 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%	89%	89%	89%	88%	88%	89%	89%	90%	92%	93%
Solar Access, weighted by kWp	92.2%	91.0%	89.5%	88.9%	89.4%	88.2%	88.0%	88.8%	89.0%	89.7%	91.7%	92.8%
AC Power (kWh)	3,582.3	3,091.9	3,570.7	3,273.4	3,104.3	2,670.5	2,525.0	2,618.3	2,823.7	3,472.9	3,629.6	3,639.6



