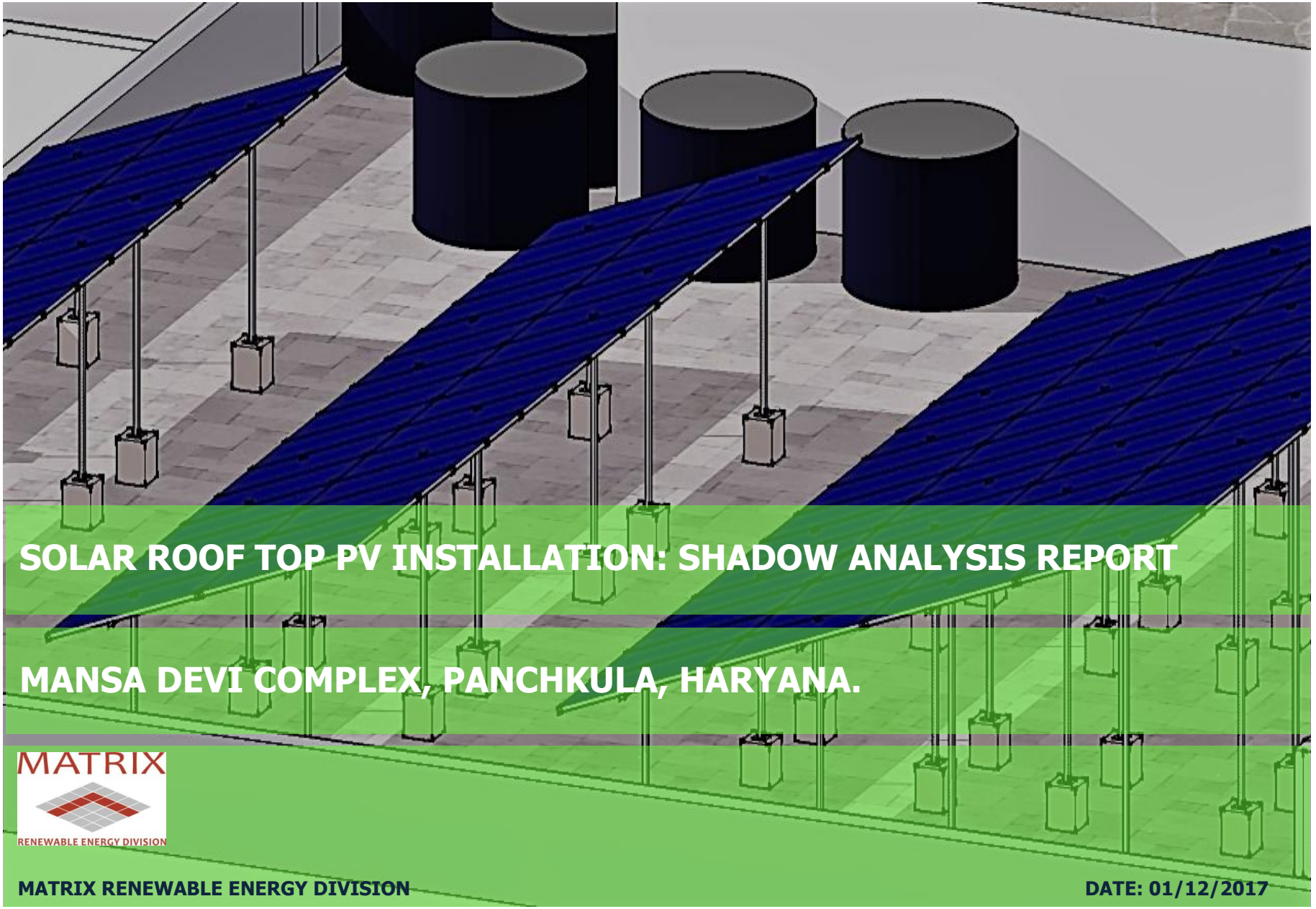


SOLAR ROOF TOP PV INSTALLATION: SHADOW ANALYSIS REPORT

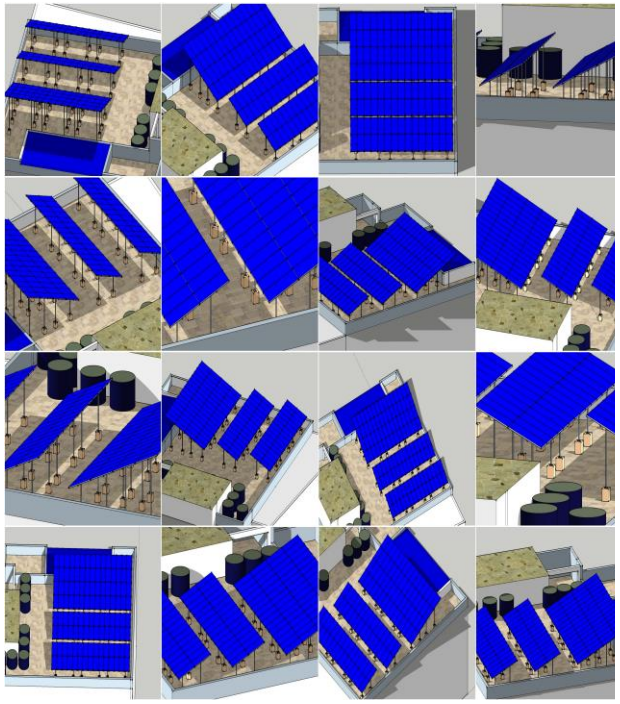
MANSA DEVI COMPLEX, PANCHKULA, HARYANA.

MATRIX
RENEWABLE ENERGY DIVISION

MATRIX RENEWABLE ENERGY DIVISION **DATE: 01/12/2017**

SHADOW ANAYSIS REPORT (SAR)

FOREWORD



Mansa Devi Complex is located near the vicinity of Deer Park, Panchkula Haryana. The site is used for religious and social activity where terrace has a potential useable area of approx.410 Sq. m. for SPV roof top installation.

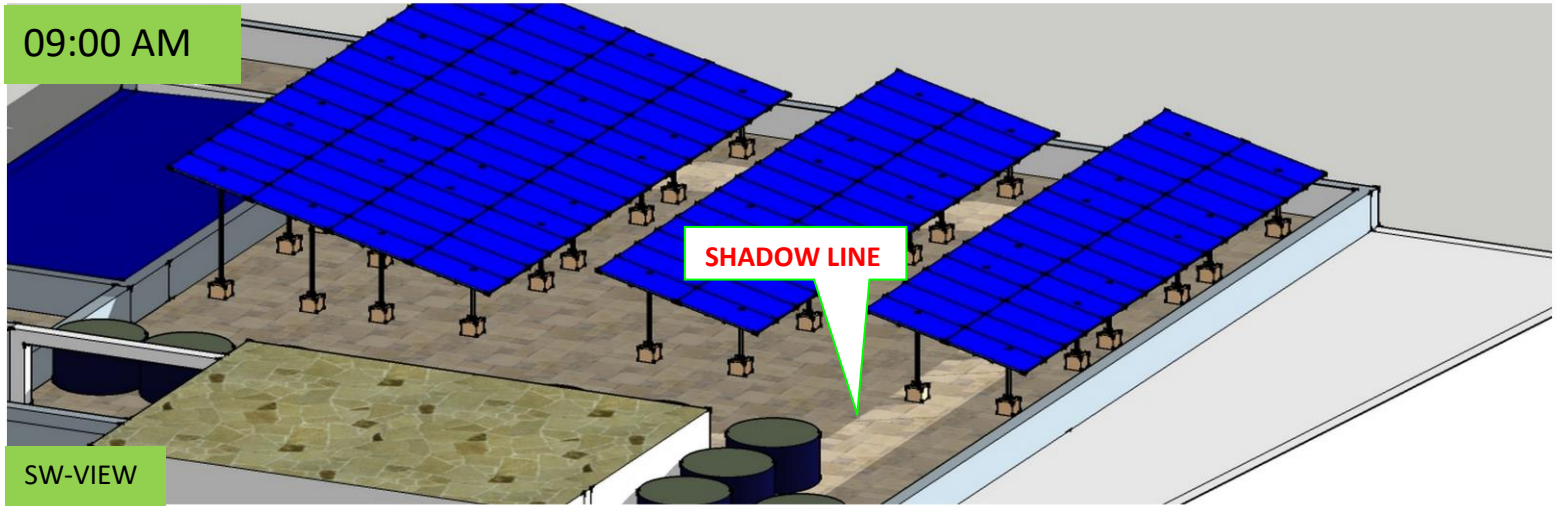
In order to reach maximum SPV plant capacity with optimum tilt angle of 15^{o} on the allotted area, the panel structures should be elevated above 1metre from FFL terrace roof because this enables to be aloof from the hindrances which are uniformly distributed along parapet wall.

In light of the above factors, the SPV roof top plant with nominal output power of 33KWp is achievable.

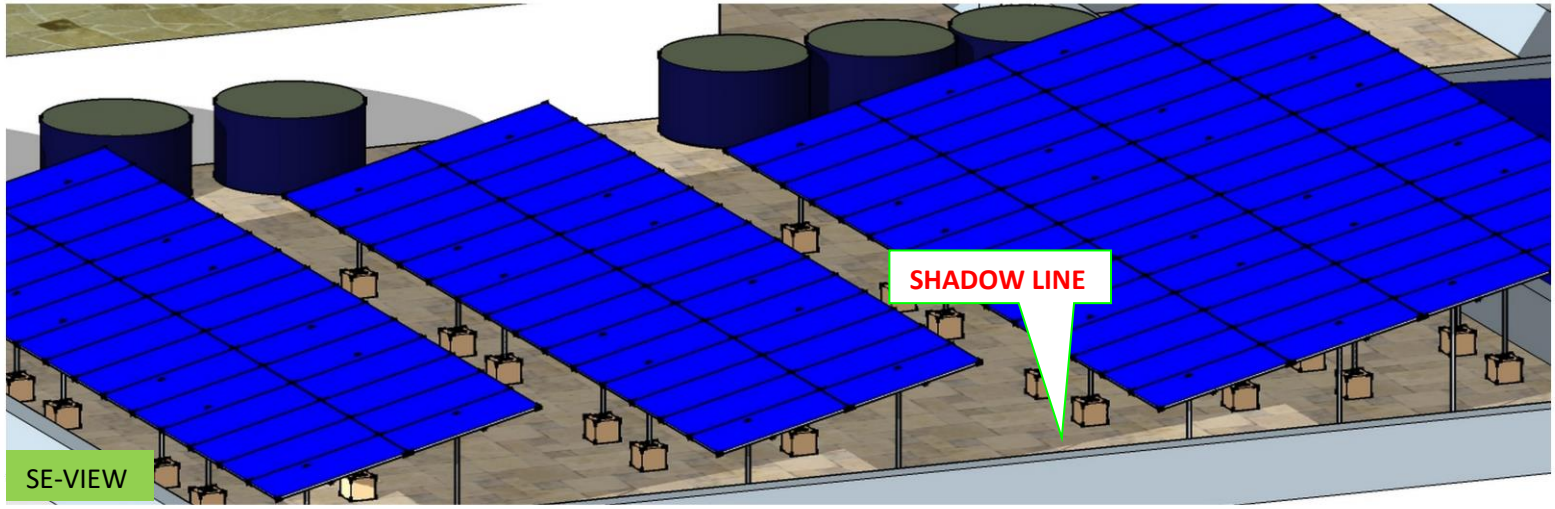
UTC	BUILDING AZIMUTH	MODULE AZIMUTH	ANALYSIS DATE	LATITUDE	LONGITUDE
+5:30	13^{O} SE	13^{O}SE	23 DEC	30°43'22.2"N	76°51'45.8"E

SHADOW ANAYSIS REPORT (SAR)

09:00 AM



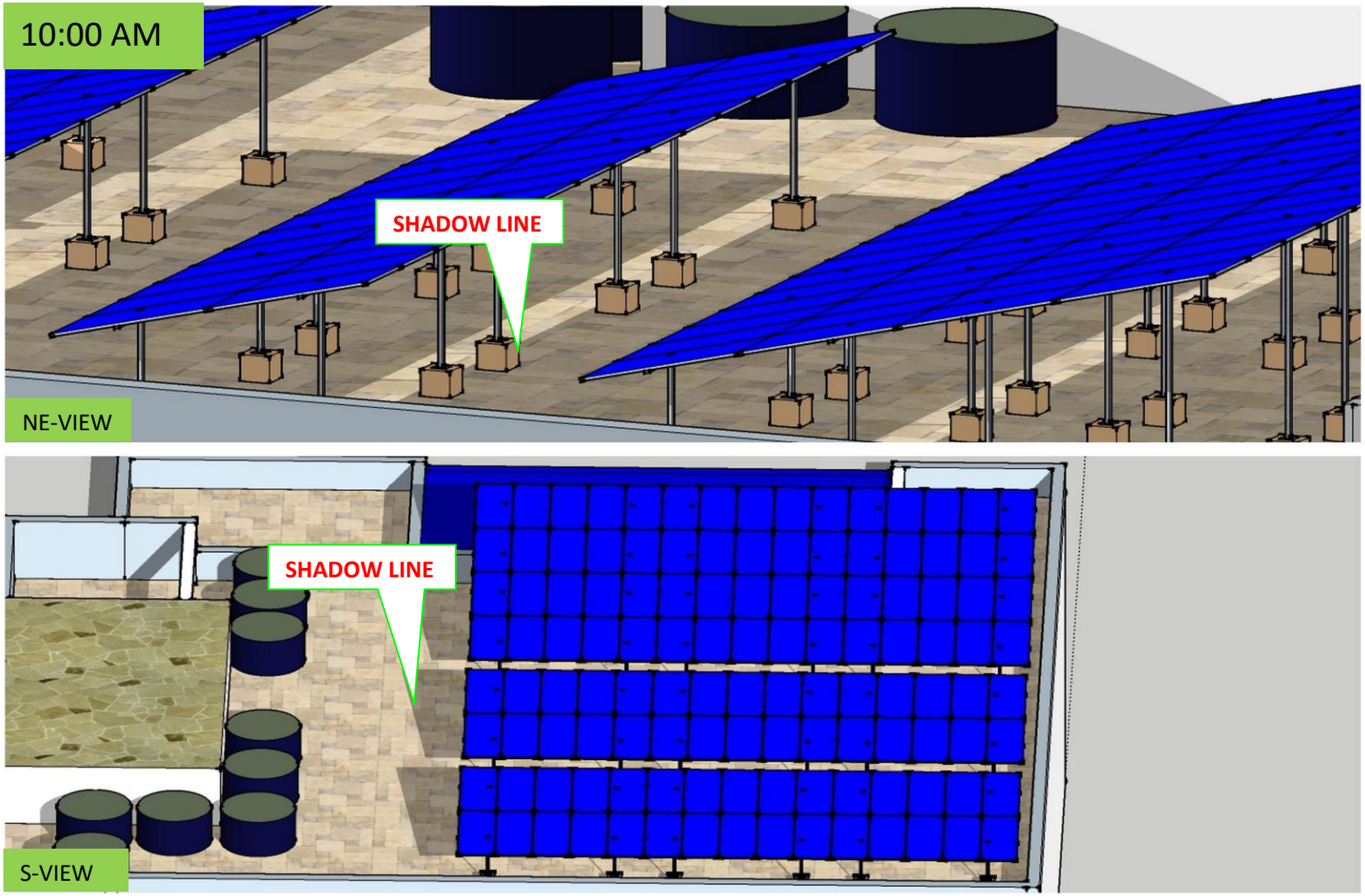
SW-VIEW



SE-VIEW

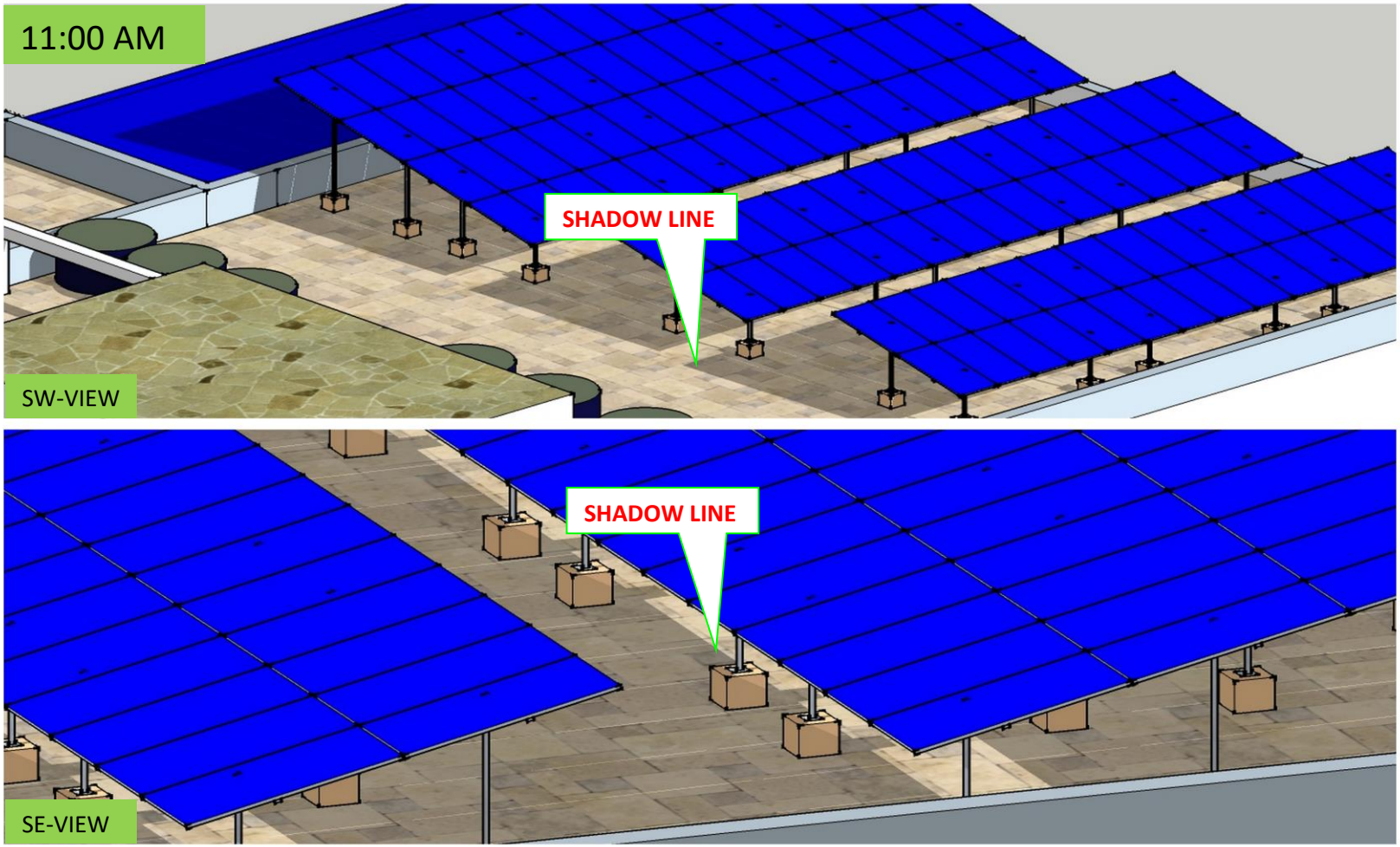
Prepared by: Sani M. Pfoze

SHADOW ANAYSIS REPORT (SAR)



Prepared by: Sani M. Pfoze

SHADOW ANAYSIS REPORT (SAR)



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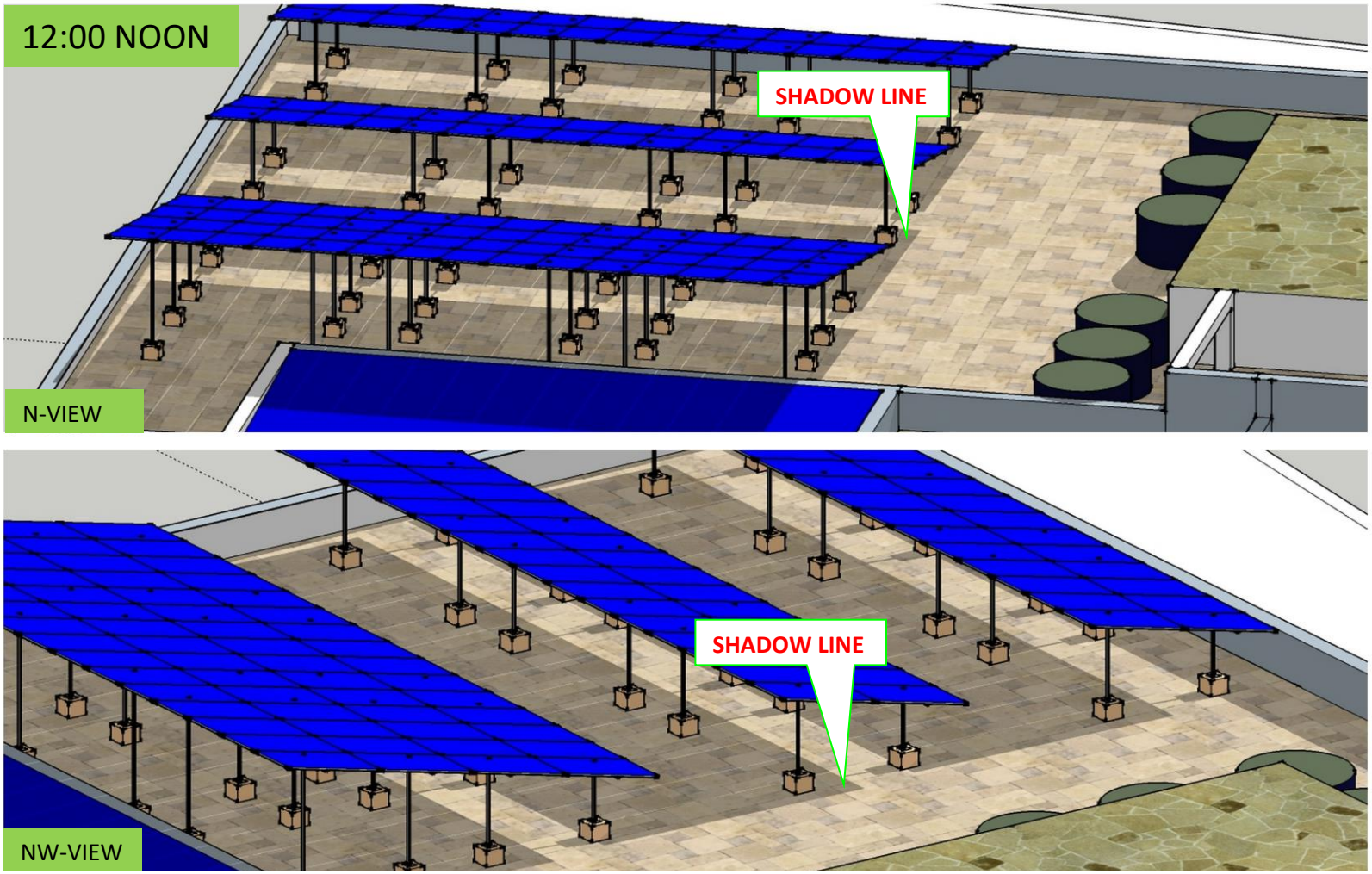

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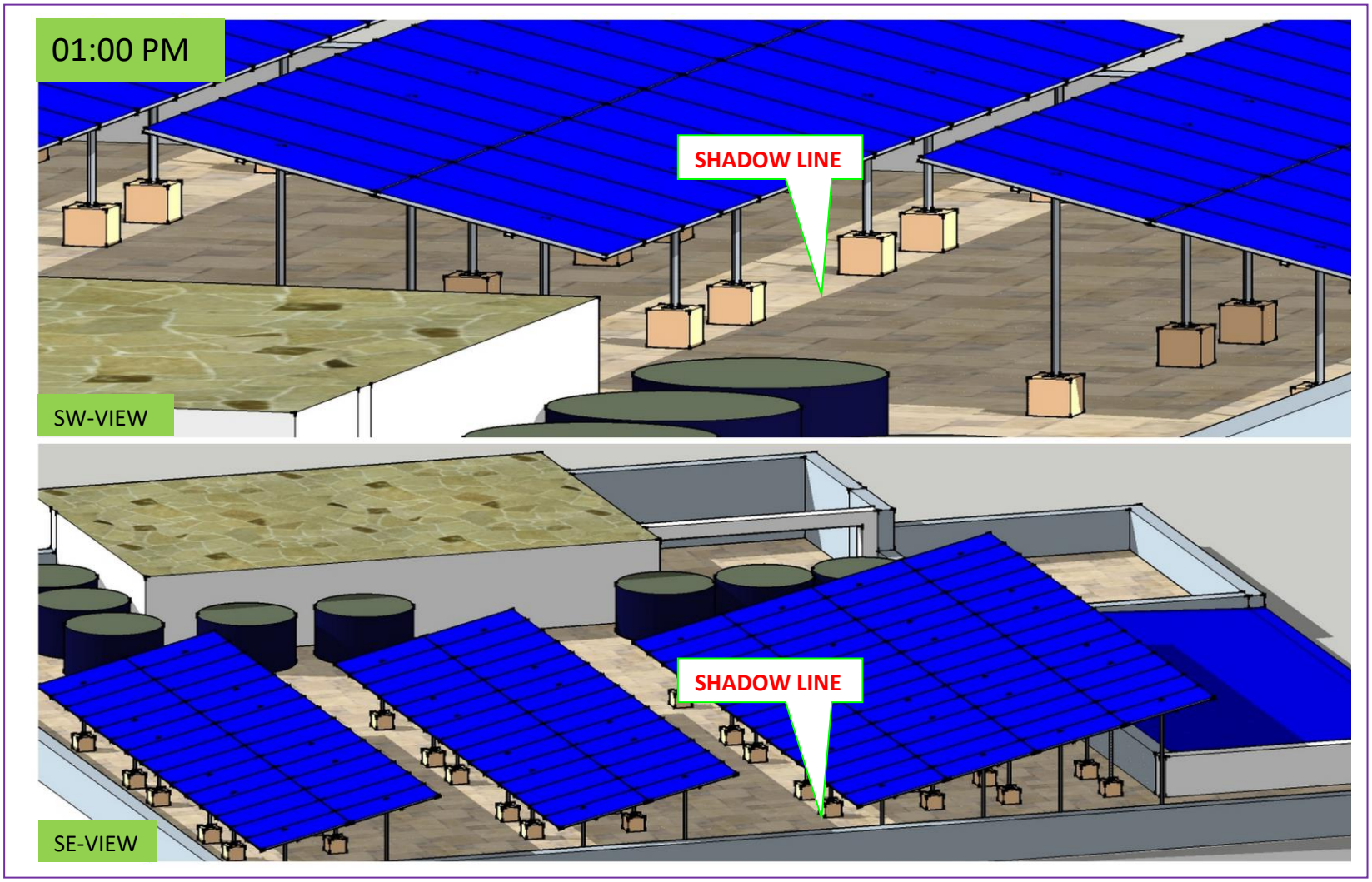

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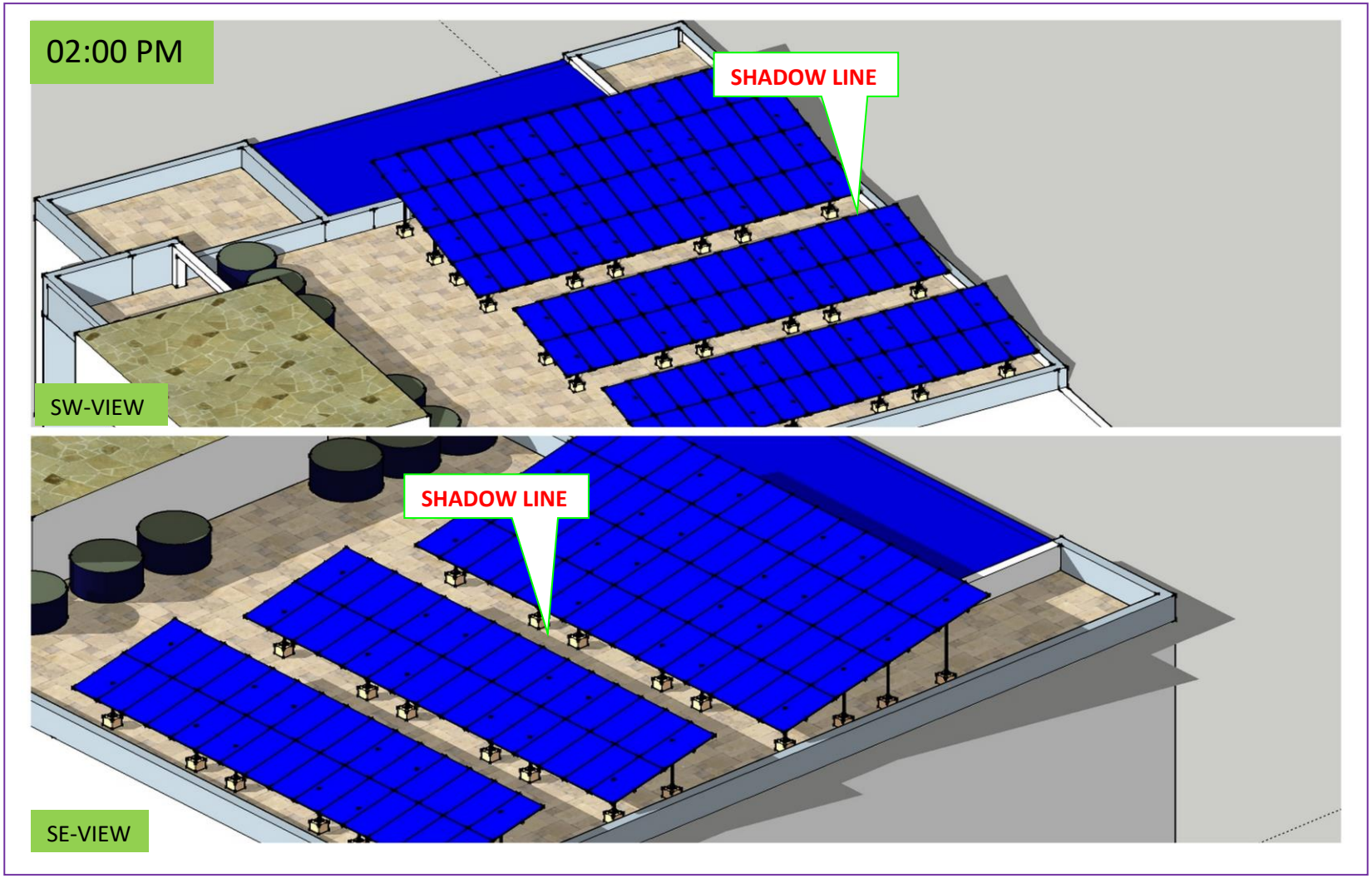

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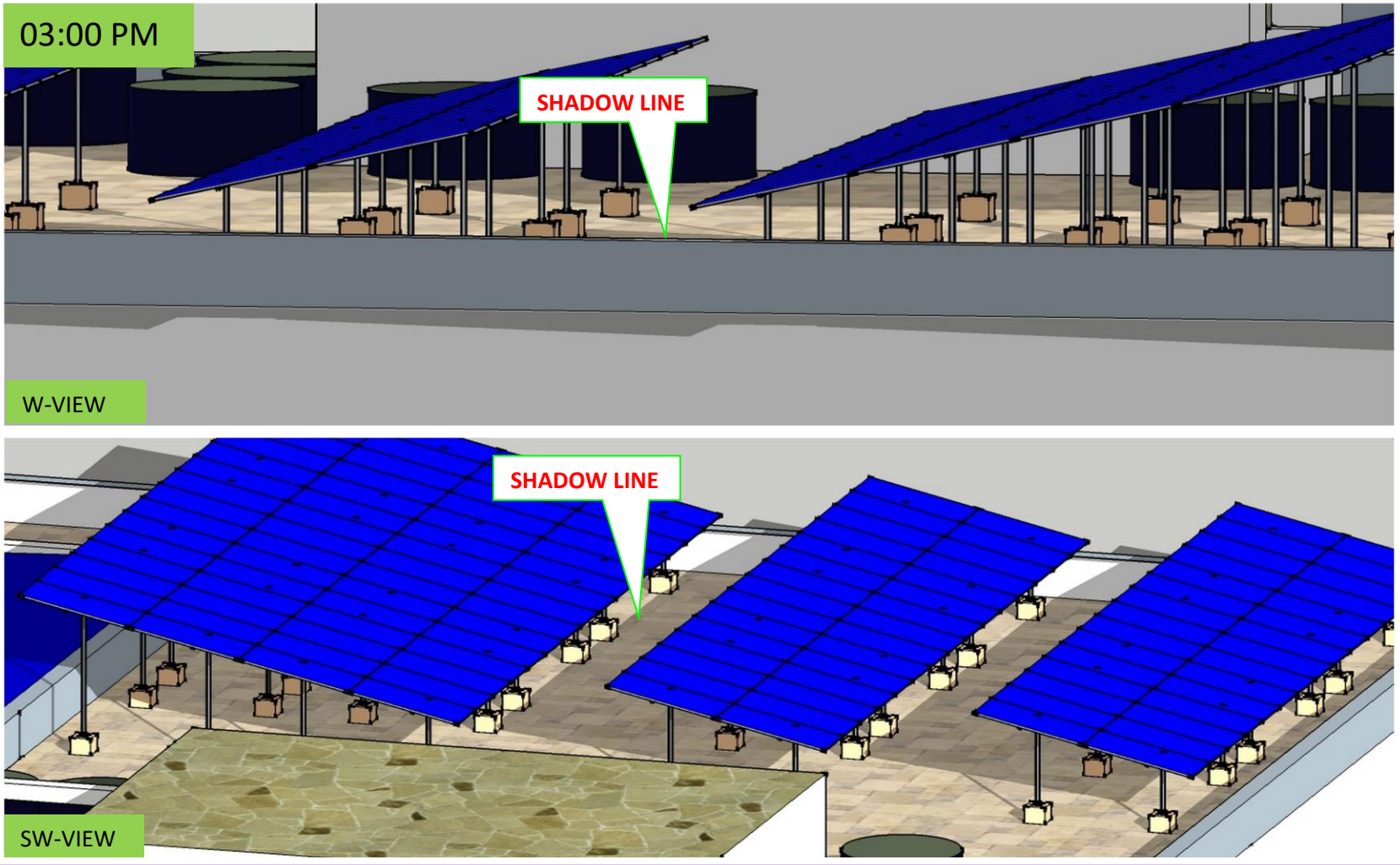

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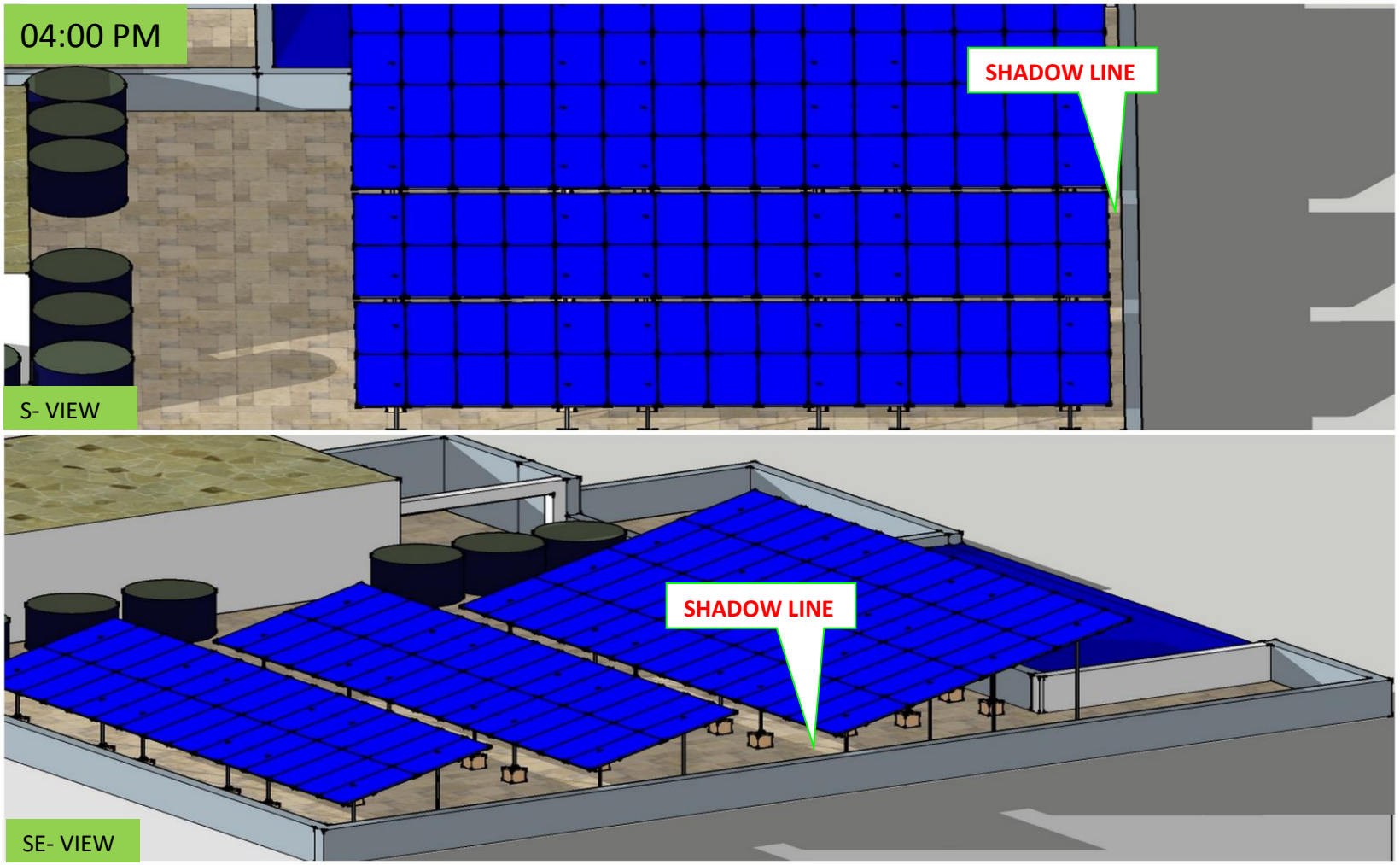

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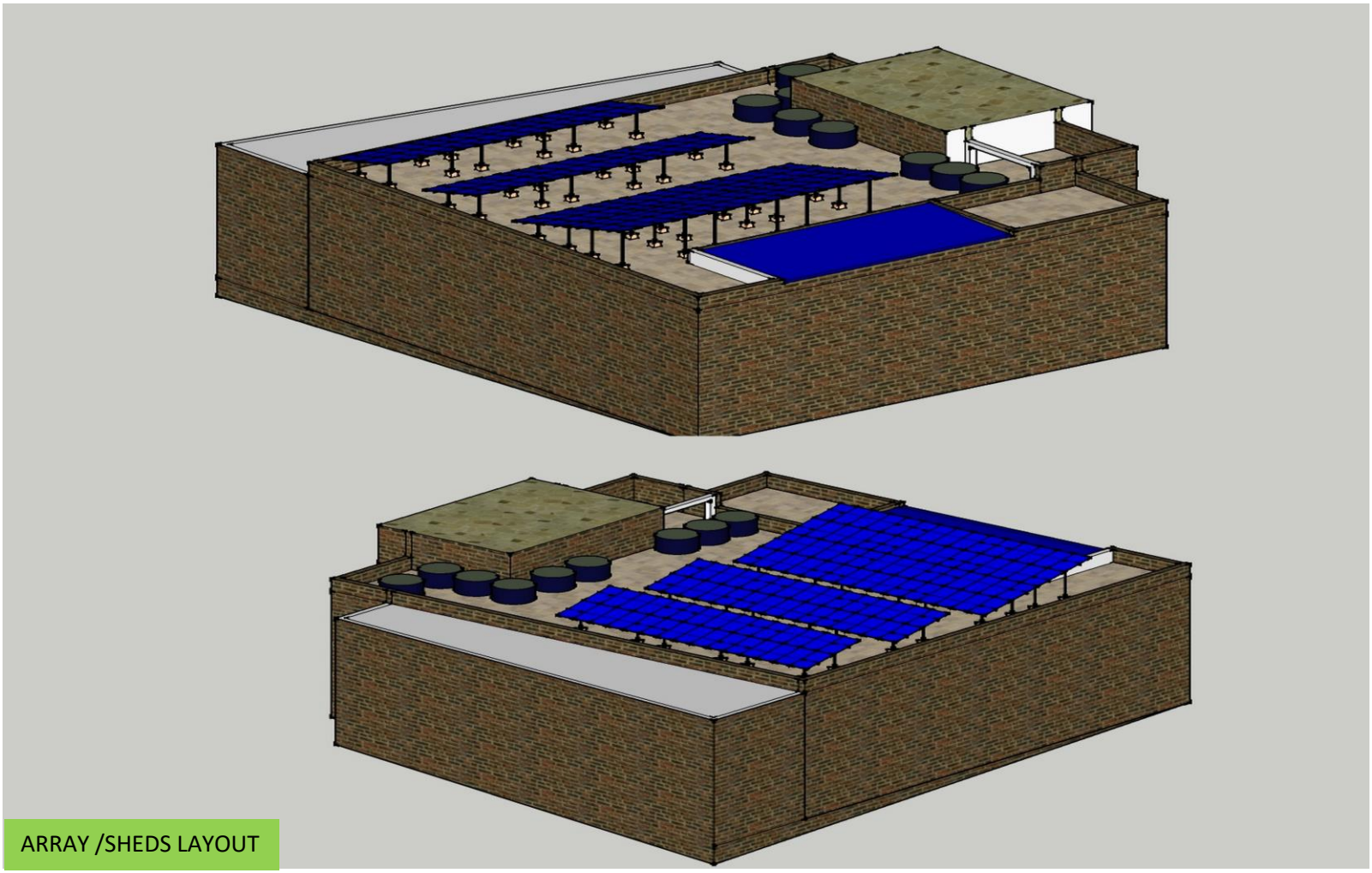

ARRAY /SHEDS LAYOUT