

# *Texas Electrical and Solar*

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**06-28-17**

Spring Lake Estates

**Dear Spring Lake Estates:**

1. RE: Elias Nkerbu.  
5005 Havenside Way,  
Mansfield, TX 76063

The drawings submitted shows the solar panels to be placed on the South and West side of the roof, there is a 40% or more reduction if panels are placed on the north side on house. (back of home).

**Sincerely,**

*Angie Tatom*

*Administrative Personnel*  
*atatom@texassolarnow.com*  
*832-207-6009*



## Aurora Shade Report

**Customer**  
Elias Nkerbu

**Designer**  
Matthew Smith

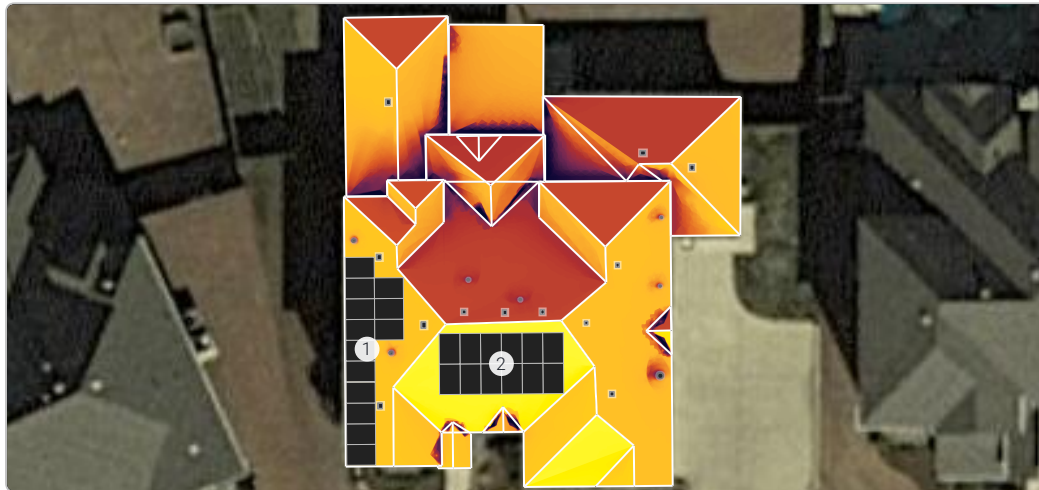
**Organization**  
TE Services

**Address**  
5005 Havenside Way  
Mansfield, TX 76063, EE.  
UU.

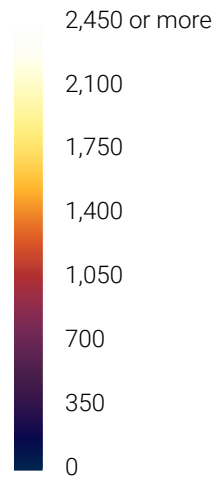
**Coordinates**  
(32.6, -97.1)

**Date**  
29 June 2017

### Annual irradiance



kWh/m<sup>2</sup>/year



### Summary

Array	Panel Count	Azimuth (deg.)	Pitch (deg.)	Annual TOF (%)	Annual Solar Access (%)	Annual TSRF (%)
1	13	270	33	84	99	83
2	12	180	28	99	99	98
Weighted average by panel count	-	-	-	-	99	90.2

### Monthly solar access (%) across arrays

Array	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	99	99	99	99	99	99	99	99	99	99	99	99
2	99	99	99	99	99	99	99	99	99	99	99	99

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**Designer**  
Matthew Smith

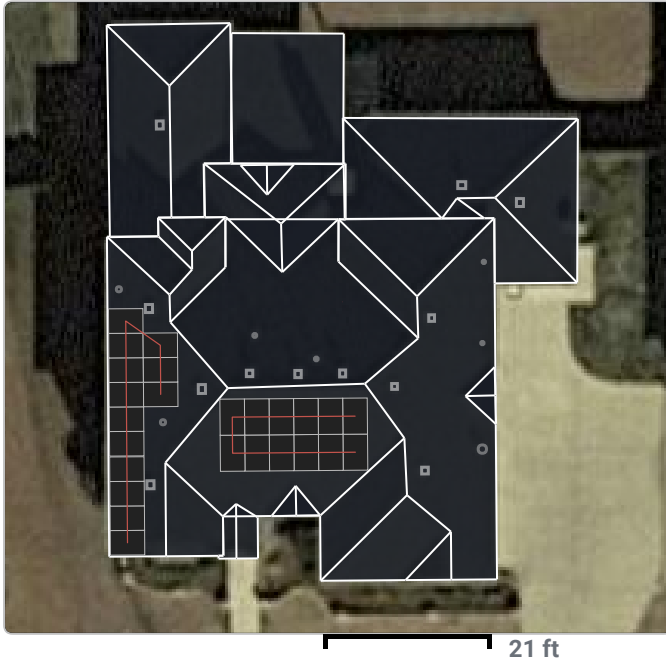
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UU.

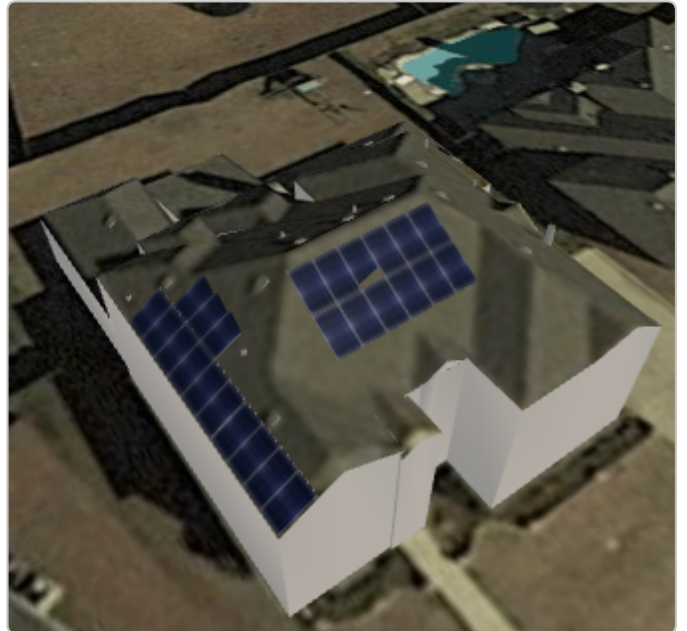
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(32.6, -97.1)

**Date**  
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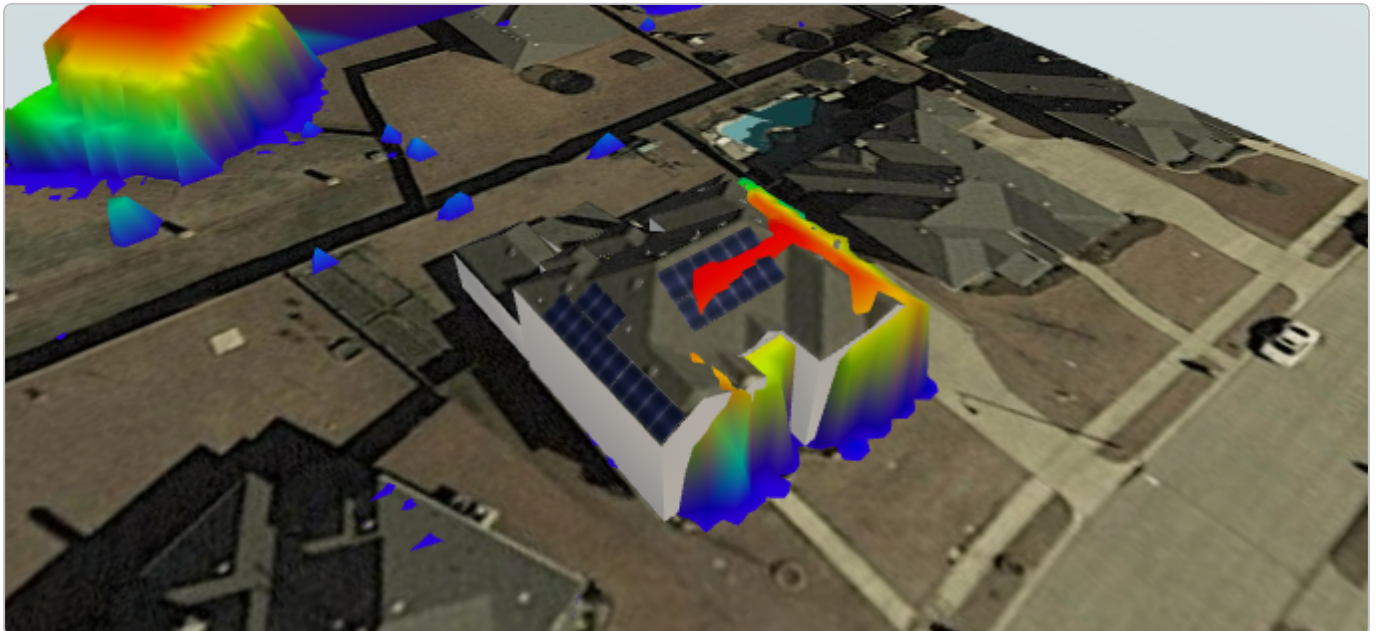
Zoomed out satellite view



3D model



3D model with LIDAR overlay



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**Designer**  
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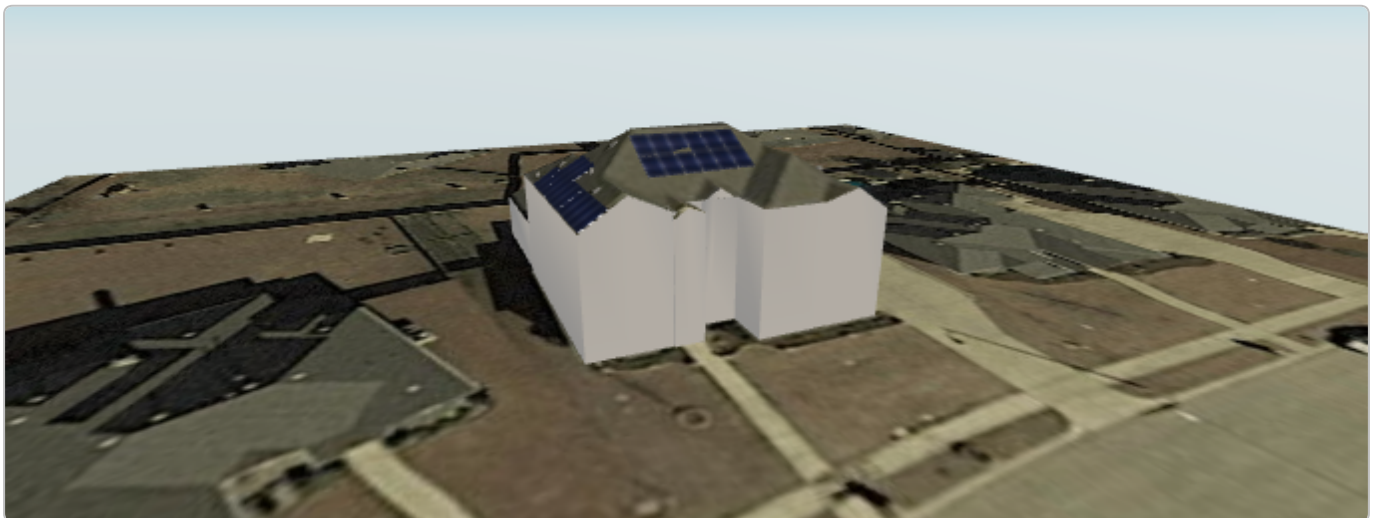
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(32.6, -97.1)

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#### Street view and corresponding 3D model



I, **Matthew Smith**, certify that I have generated this shading report to the best of my abilities, and I believe its contents to be accurate.