



## Final Array Layout

T G Poppino  
720 11th street  
oregon city, Oregon 97045

February 22, 2024



<b>System Size (DC):</b>	3.78 kW
<b>Panels:</b>	(9) Silfab Solar SIL-420 HC+
<b>Inverters:</b>	(9) Enphase IQ8PLUS-72-2-US
<b>First Year Estimated Production:</b>	3344 kWh



## Installation Summary

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### Homeowner Obligations Before Install:

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None

# Aurora Shade Report

**Customer**  
Teri Grace Poppino

**Designer**  
Surendra ESR

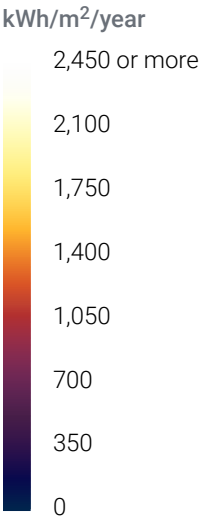
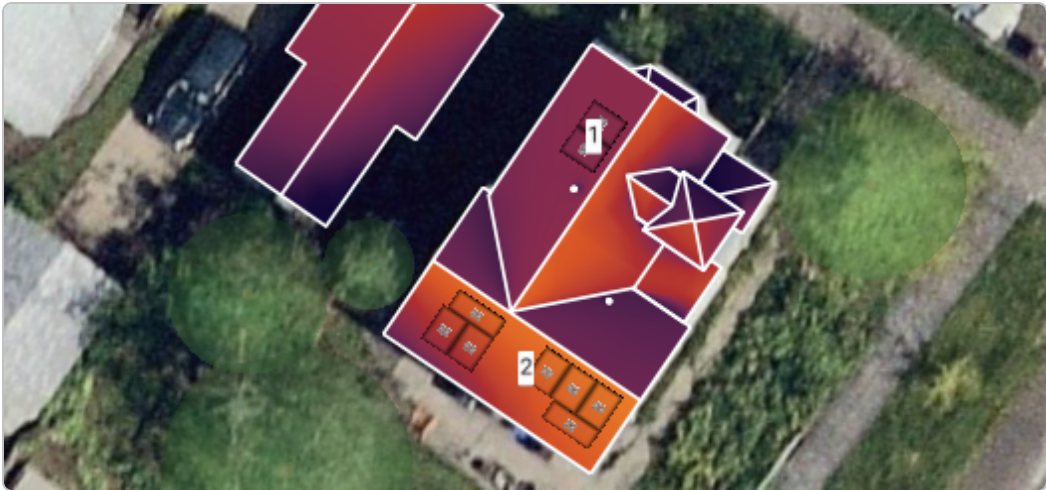
**Organization**  
Ion Solar

**Address**  
720 11th St  
Oregon City, OR 97045,  
USA

**Coordinates**  
(45.358307, -122.600801)

**Date**  
22 February 2024

## Annual irradiance



## Summary

Array	Panel Count	Azimuth (deg.)	Pitch (deg.)	Annual TOF (%)	Annual Solar Access (%)	Annual TSRF (%)
1	2	304	45	62	92	57
2	7	214	45	96	84	81
Weighted average by panel count	-	-	-	-	85.8	75.4

## Monthly solar access (%) across arrays

Array	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	79	84	82	91	96	97	98	96	80	82	81	81
2	71	78	81	84	88	90	89	87	83	81	77	73

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Zoomed out satellite view



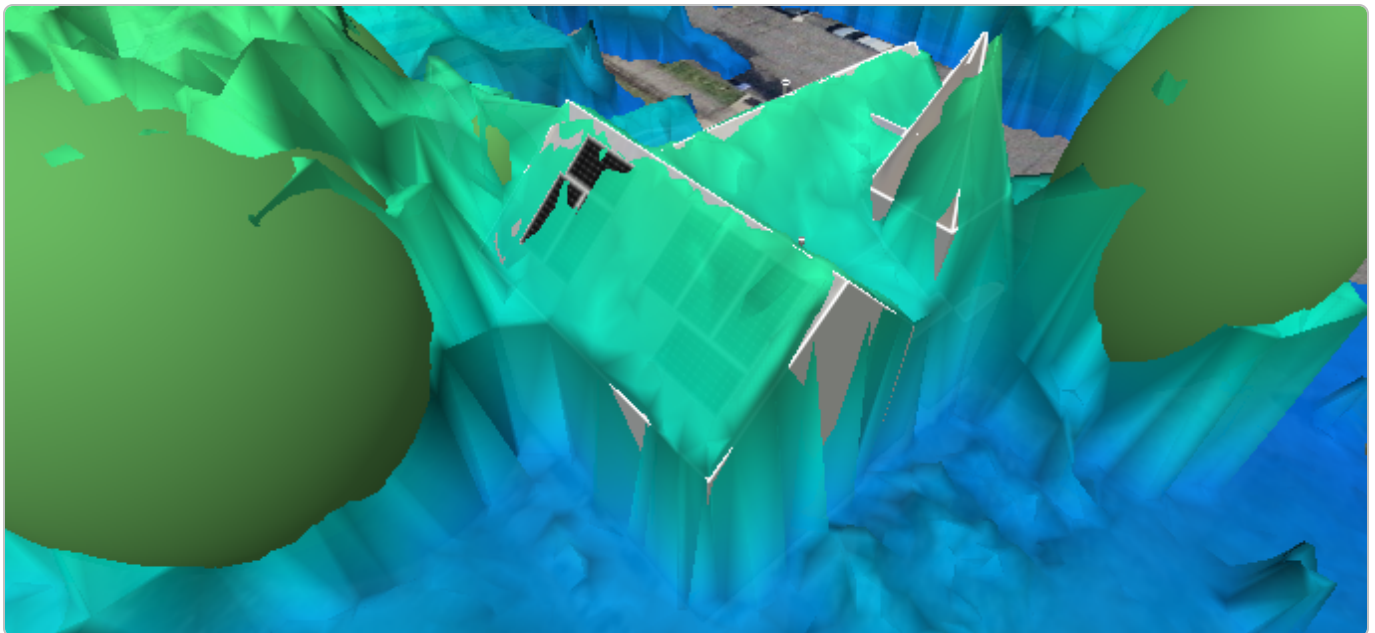
3D model



3D model with LIDAR overlay



15 ft





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Street view and corresponding 3D model



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

Estimated Production					
January Est. Production	106			February Est. Production	151
March Est. Production	272			April Est. Production	337
May Est. Production	460			June Est. Production	489
July Est. Production	522			August Est. Production	462
September Est. Production	326			October Est. Production	204
November Est. Production	113			December Est. Production	93
Usage					
January Usage	405			February Usage	360
March Usage	300			April Usage	275
May Usage	275			June Usage	300
July Usage	20			August Usage	410
September Usage	310			October Usage	250
November Usage	315			December Usage	450