

# UUMAN Solar Project



# UUMAN Solar Project Timeline

- Began a long time ago...2009?
- Latest iteration
  - August 2018 – Initial discussions
  - May 2019 – First meeting with Creative Solar
  - September 2019 – GIPL Loan Discussion
  - January-November 2020 – GIPL Powerwise & Solarwise
  - January 2021 – Vendor Solar Proposals
  - March 2021 – Internal Solar Proposal
  - April-August 2021 – Initial Solar Only Fundraising Effort
  - September 2021 – Raise The Roof Campaign
  - October 2021 – Contract Signed with Creative Solar

# Raise The Roof

“Protecting UUMAN Sustainably From The Top”

Item	Current	
Expenses		
New roof	\$ 25,000	
New gutters	\$ 4,465	
Paint Portico	\$ 3,600*	
Solar Package	\$ 29,700	
Total	\$ 62,765	
Funding		
Member & Friend Donations	\$ 53,000	← Original Goal was \$40,000!
Infrastructure Depreciation Fund	\$ 7,200	
GIPL/Member Loan	\$ 3,000	← Original Estimate was \$15,000!
Total	\$ 63,200	
Capital Needed	\$ (435)	

# Raise The Roof Timeline

“Protecting UUMAN Sustainably From The Top”

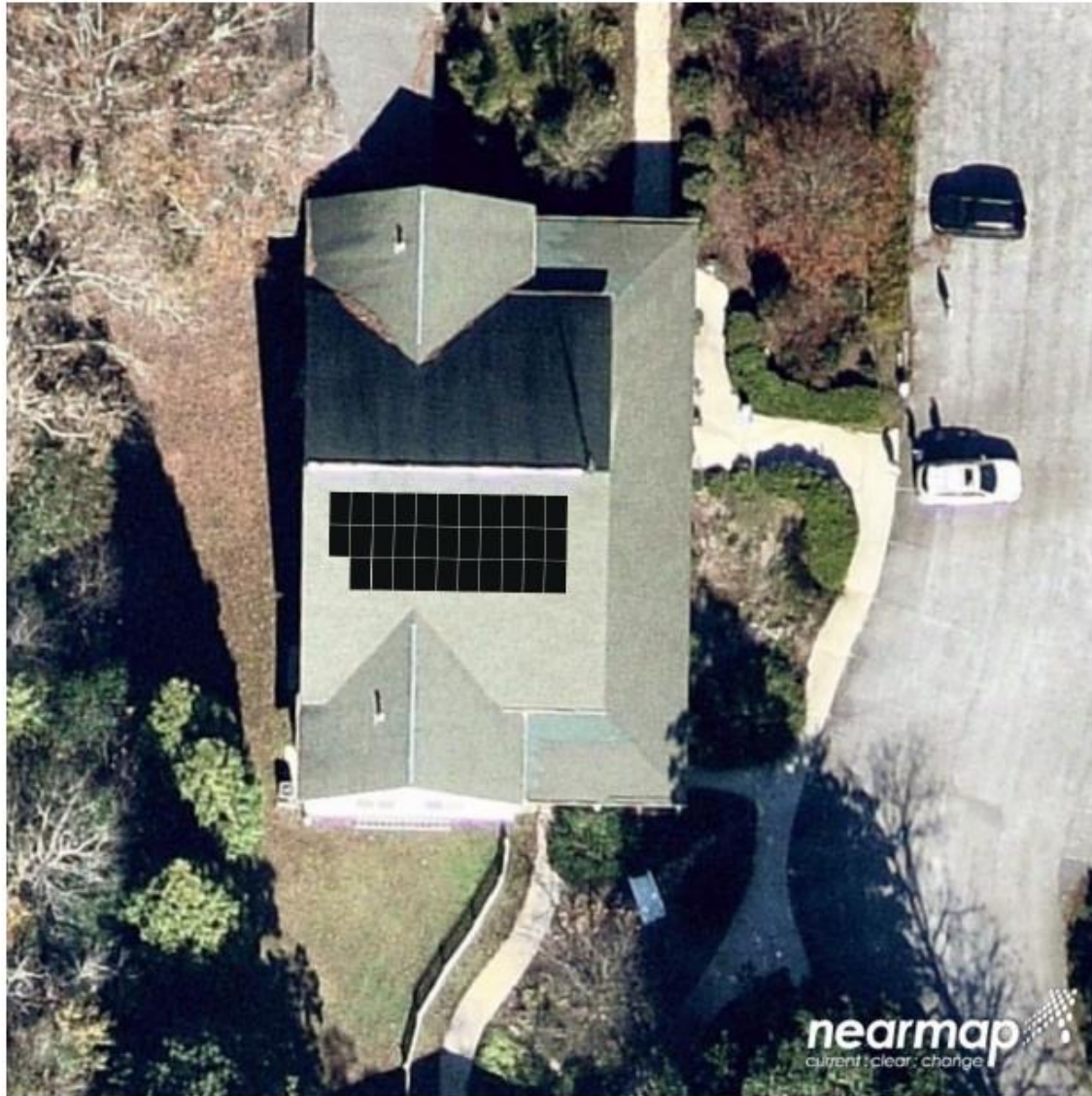
Original Date	Milestone Event	Actual Date
10/30/21	Solar Deposit (10%)	10/31/21
11/19/21	Roof & Gutter Work Begins	11/19/21
11/28/21	Roof & Gutters Complete	11/28/21
12/5/21	Solar Design Approval (15%)	12/5/21
12/12/21	Portico Painting Complete	12/12/21
12/15/21	GIPL/Member Loan Received	NA
12/19/21	Solar Permit Acquisition (50%)	5/25/21
2/27/22	Solar Pass Inspection (20%)	~Oct '21
3/13/22	Solar Utility Connection (5%)	~Oct '21

# Raise the Roof Contributors

- John & Chris Algren
- Ashok & Shelley Nagrani
- Bev & Steve Jordan
- Jill Brooks
- Carla & Rimas Kapeskas
- Carole Herman & Dan Ben-David
- Dave Dunn
- Diantha Horton
- Dirk & Ann Bender
- Elizabeth Rohan & Stephen Shanahan
- Frances Clark
- Gary Denning
- Gina Tofil
- Lisa Greyenbuhl
- James & Marion Cohen
- Jeanne Holford
- Jennifer Ratcliffe & Gus Hadorn
- Jessie South
- Jim & Ginny Rogers
- Joe & Ann Creech
- John & Miriam Patanian
- Kris Bravo
- Lawton & Linda Etheridge
- Marty Harvey & Kim Palmer
- Rollin Mathis
- Merry Beth Stephens
- Arnie & Sue Moore
- Nat Parker
- Patricia Shea
- Paula Watson & Rick Irwin
- Kyle & Jennifer Phillippi
- Richard Lakes & Pat Carter
- Robert & Rosemary Popp
- Stephen C. Allerton
- Sue Greenspon
- Sue Tromblee
- Tanya Romine & Jim Nickens
- Michael Telford & Elizabeth Norris
- Todd & Kelly Callen
- Adriaan Van der Beek & Margriet Van de Steeg
- Amanda & Tim Williams



# Creative Solar Proposal



## System Size

10.4 kW DC

## CEC-AC Rating

9.49 kW AC

## Estimated First Year Production

16,010 kWh AC

## Utility Bill Offset

33%

## Panels

REC 325W N-Peak Black

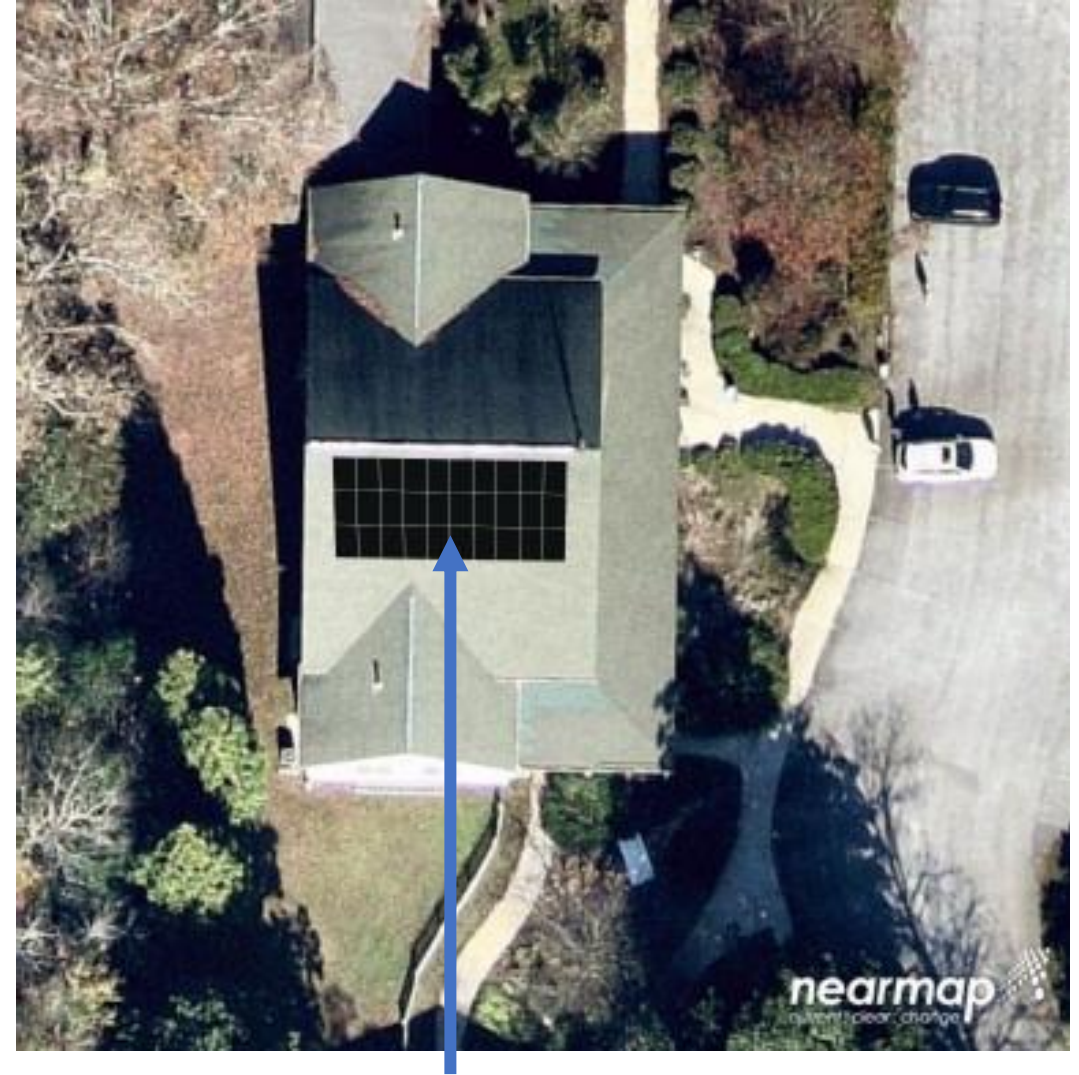
## Inverters

SE7600H-US

# UUMAN Solar Array



<https://sunroof.withgoogle.com/building/34.0581461/-84.361111/#?f=buy>



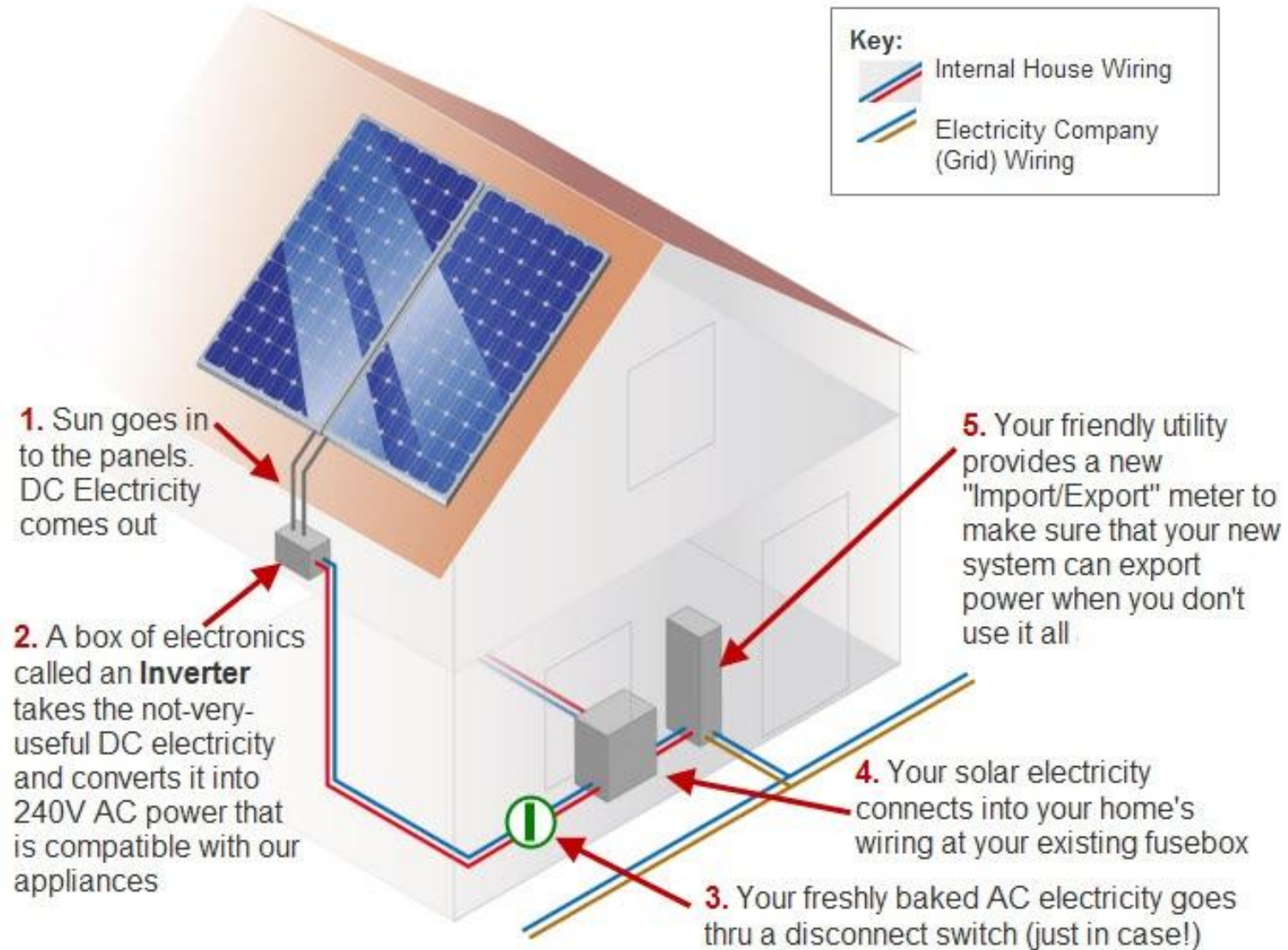
- 30 – 370 Watt Aptos panels
- 11.1 kW DC





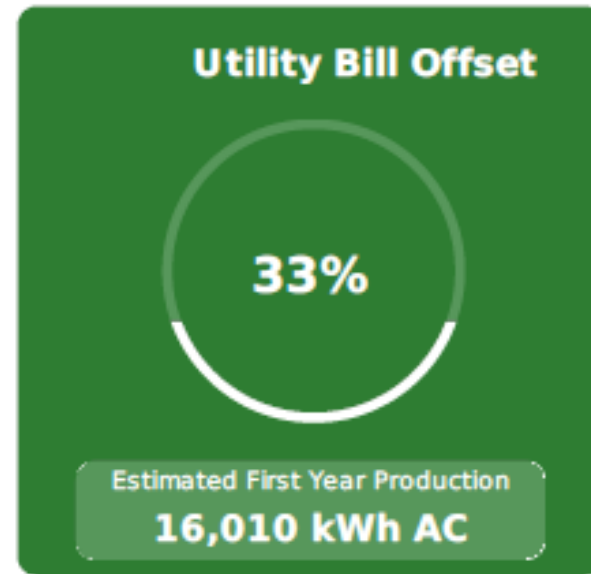
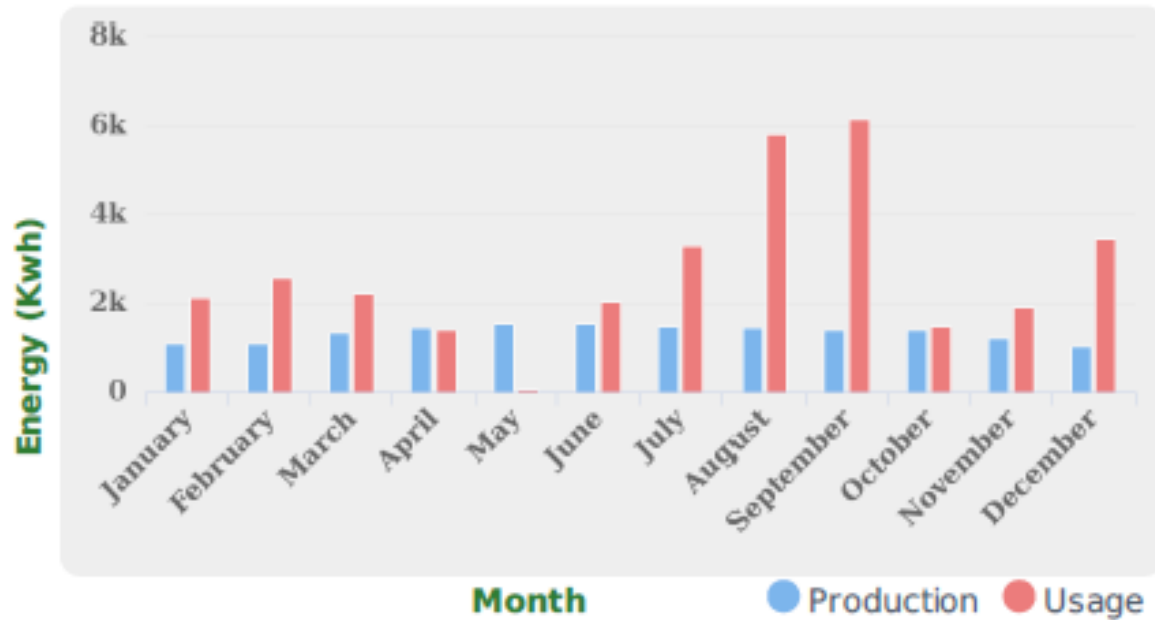


# Solar Array – How It Works!



# UUMAN Solar Array

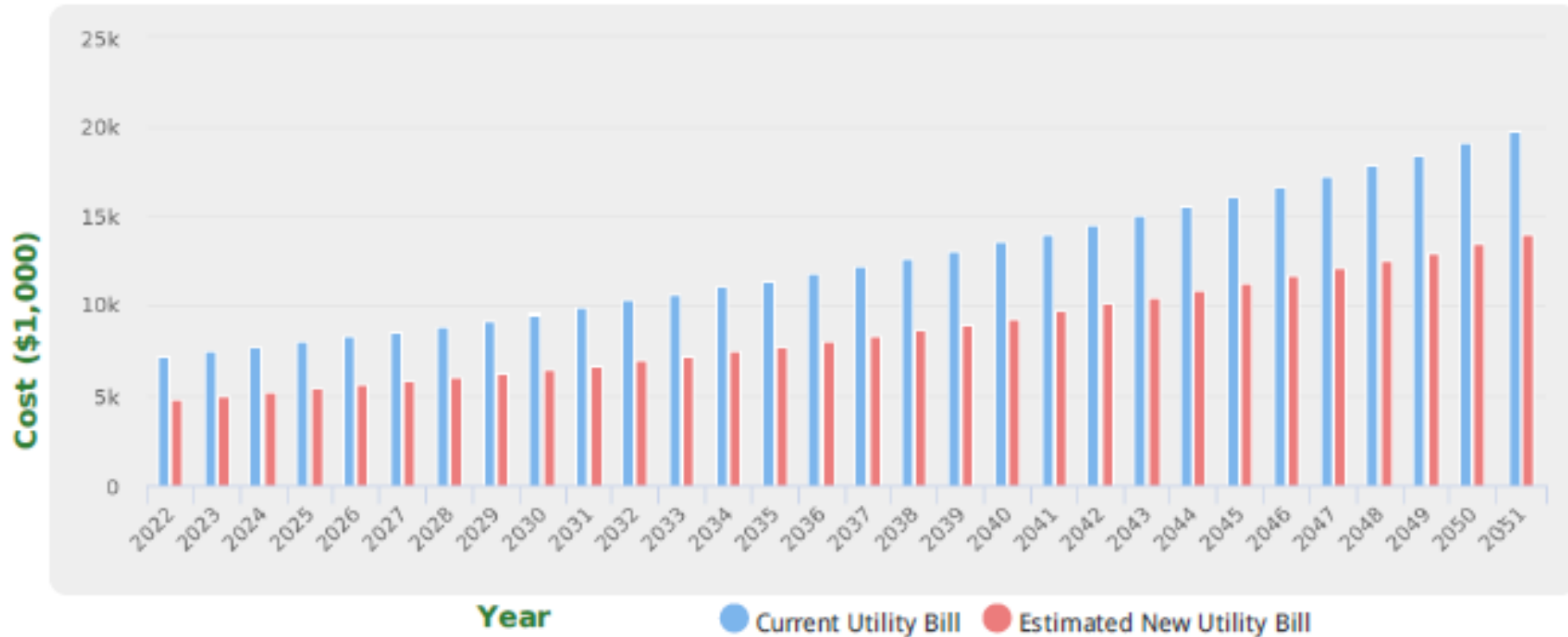
## Energy Usage



1,764 pounds CO<sub>2</sub> emission reduction/year

# UUMAN Solar Array

## Yearly Breakdown



Payback  
Period  
10.6 years

Return on investment  
(ROI)  
9.7% per year

Estimated Net  
Savings  
\$86,199.00



Estimated Solar Savings Over  
30 Years  
**\$115,899.00**



# UUMAN Solar Next Steps

- Finish Installation
  - Electrical
  - GPC Sign-off
- Solar Information Display
  - Finish design & approval
  - Install and test
- Promotional Video

# UUMAN Solar Core Team

Thank You to the following for there dedication and hard work to make the UUMAN Solar effort possible!

John Burlhardt

Kelly Callen

Gary Denning

Mike Lierbergesell

Ashok Nagrani

Bob Popp

# Georgia Solar Churches

Druid Hills Presbyterian Church	Atlanta
Atlanta Friends Meeting	Decatur
North Decatur Presbyterian Church	Decatur
Temple Beth Teffiloh	Brunswick
Koinonia Farms	Americus
Nacoochee Presbyterian Church	Nacoochee
Community Assistance Center	Dunwoody
Episcopal Diocese Office	Savannah
Fuller Center	Americus
St. Gregory the Great Episcopal	Athens
St. Anne's Episcopal	Atlanta
Druid Hills UMC	Atlanta
Holy Trinity Episcopal Parish	Decatur
St. Timothy Episcopal Parish	Decatur
Northwestern Unitarian Universalist Congregation	Sandy Springs
The Collegiate Church of St Paul the Apostle	Savannah
Emerson UU	Marietta
Johns Creek Presbyterian Church	Johns Creek

- 14 Churches in Georgia with Solar according to GIPL
- UUMAN becomes the 15<sup>th</sup>
- 3 UU Churches!



# UU Mountain Solar

- <https://www.youtube.com/watch?v=Obz16hI9VAE>

