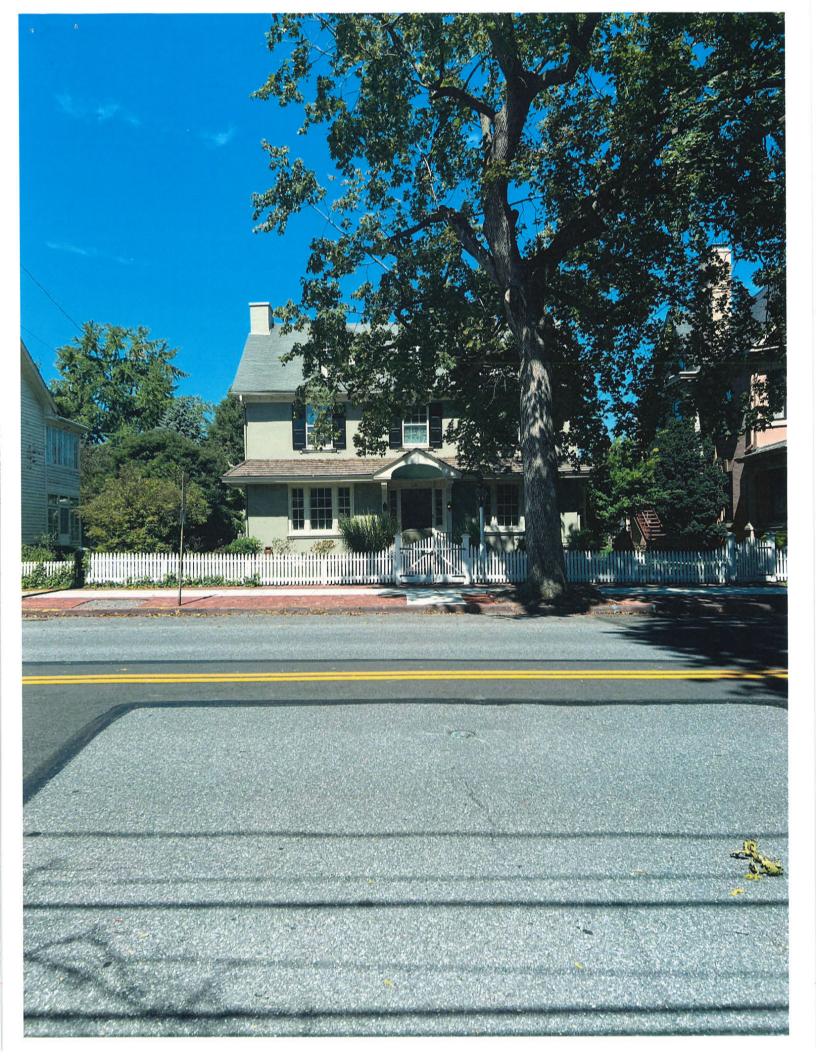
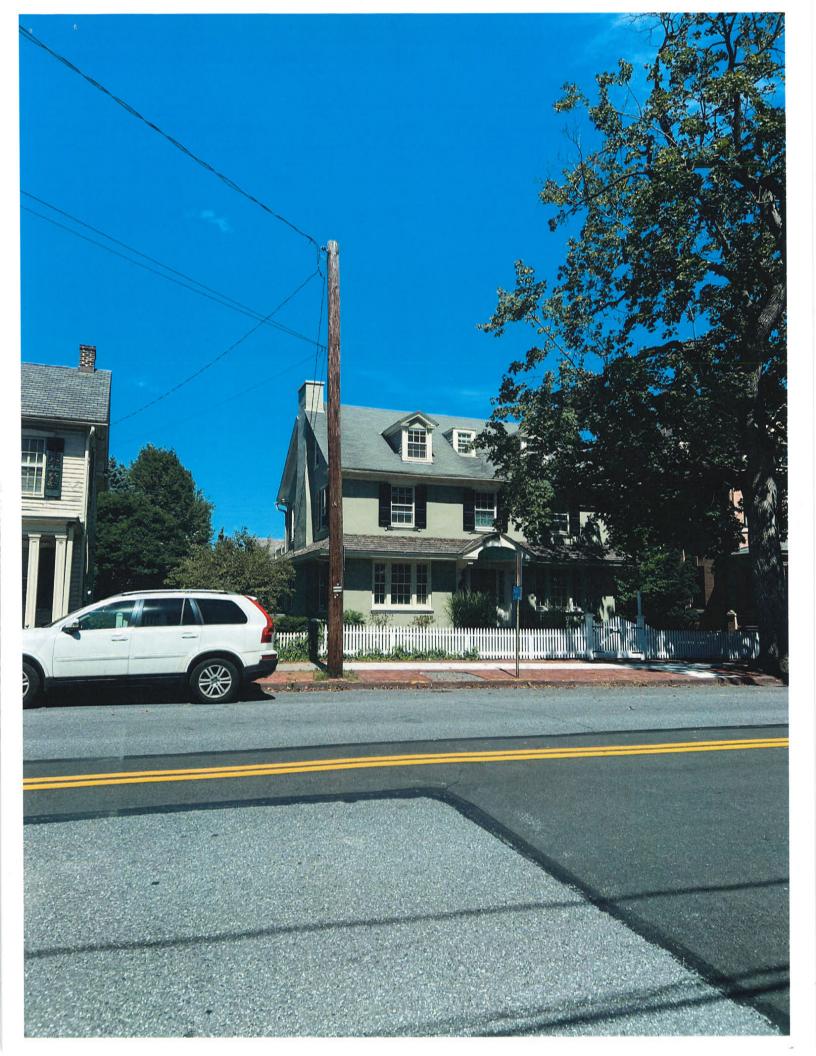
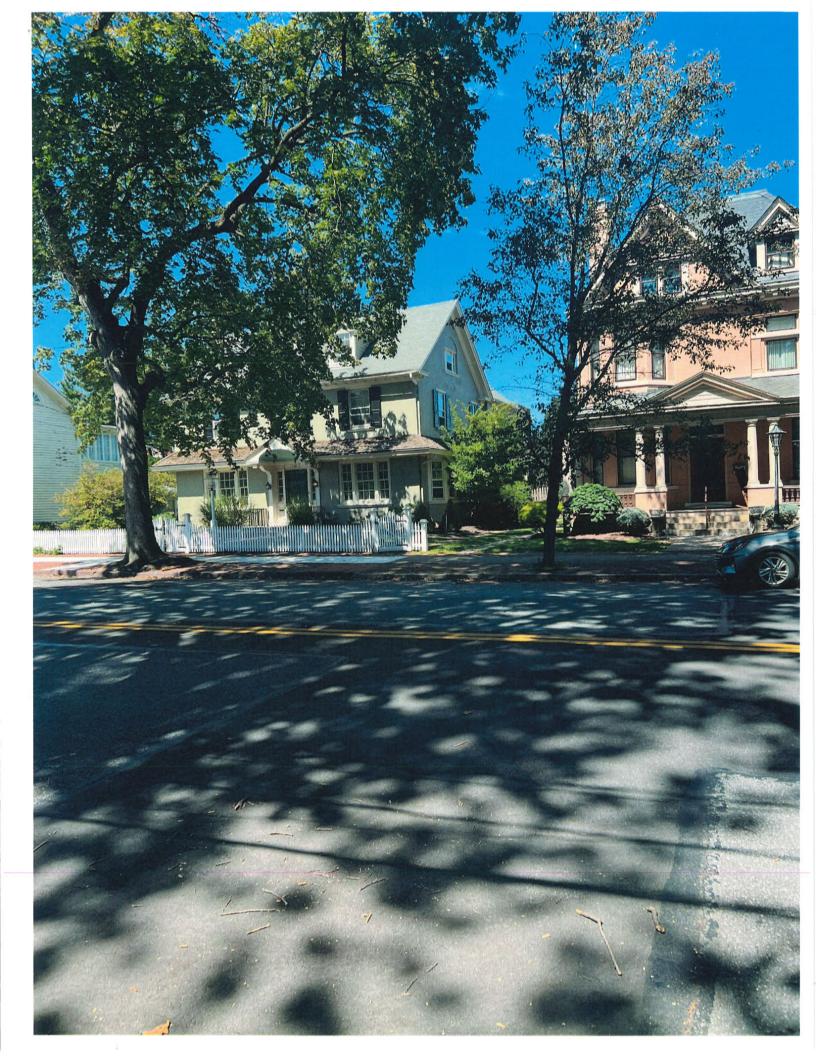
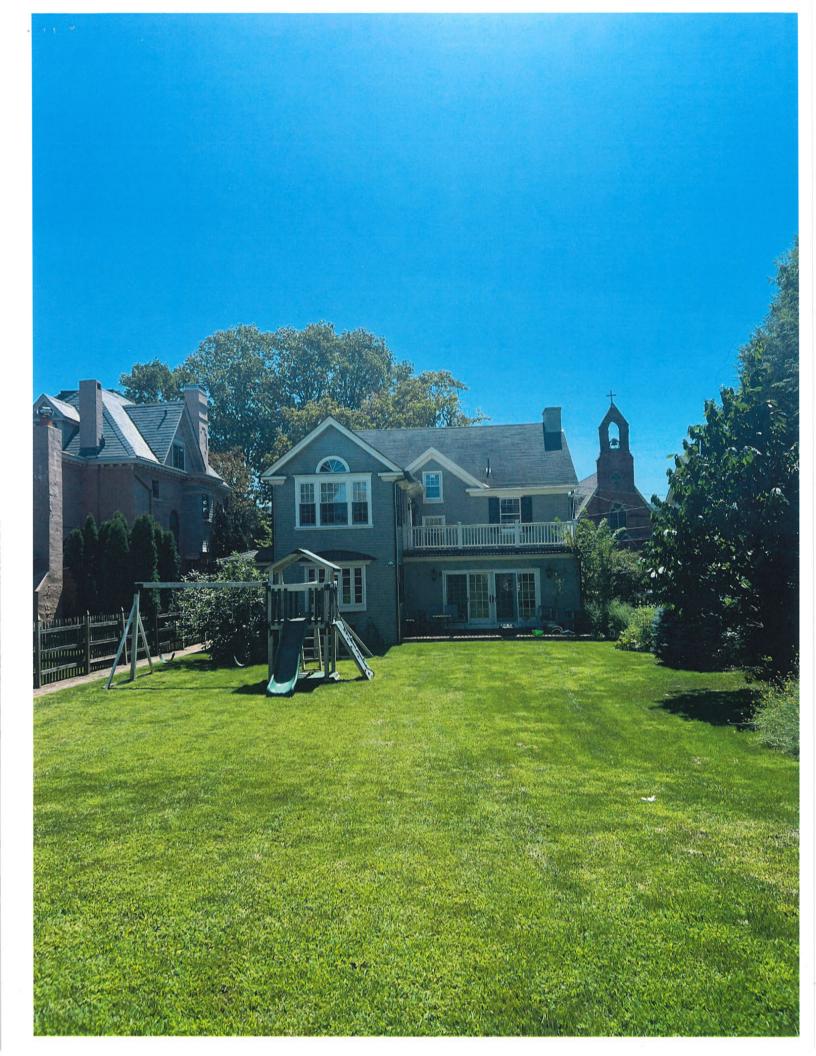
City of Bethlehem, Pennsylvania

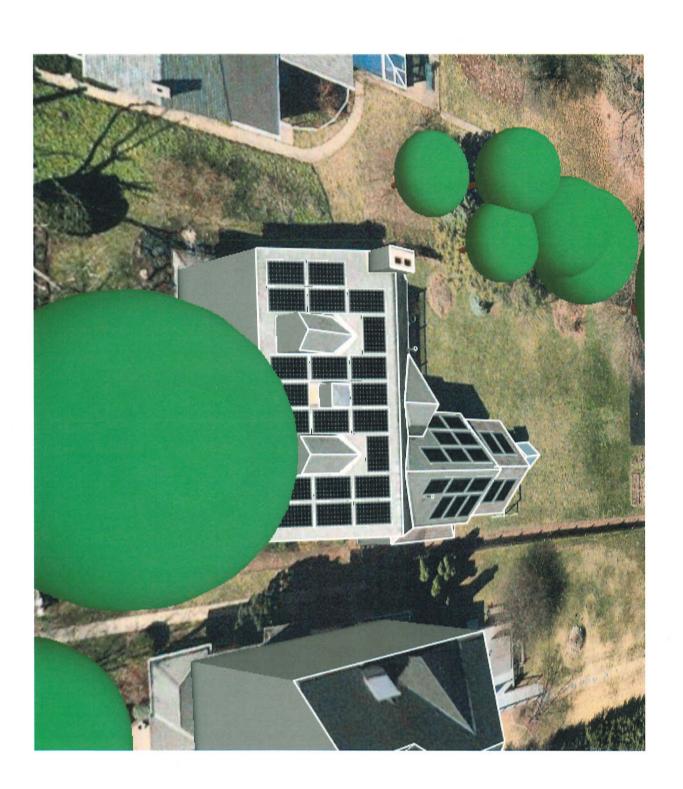
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS (COA)				
Building address 41 E Morket St, Bethleha, PA 18018				
Owner of building Christopher Fowler Phone				
Owner's email & mailing address				
Applicant Christopher Fowler Phone:				
Applicant's email & mailing address				
Street and Number City State Zip Code				
<u>APPLICANT MUST ATTEND MEETING FOR CASE TO BE HEARD.</u> <u>USE THE CHECKLIST ON THE BACK OF THIS APPLICATION TO ENSURE YOUR SUBMISSION IS</u>				
COMPLETE.				
Application form, photographs, and drawings must be submitted (see attached for deadline) prior to the				
regular scheduled meeting in order to be placed on the agenda for the next meeting.				
1. PHOTOGRAPHS - Photographs of your building and neighboring buildings <u>must accompany</u> your application.				
2. TYPE OF WORK PROPOSED – Check all that apply. Please bring any samples or manufactures specifications for				
products you will use in this project.				
Trim and decorative woodwork Skylights				
Siding and Masonry Metal work				
Roofing, gutter and downspout Light fixtures				
Windows, doors, and associated hardware Signs				
Storm windows and storm doors Demolition				
Shutters and associated hardware X Other Solar PanelS				
Paint (Submit color chips – HARB only)				
3. DRAWINGS OF PROPOSED WORK – Required drawings must accompany your application. Please submit ONE				
ORIGINAL AND TEN (10) COPIES OF DRAWINGS, PHOTOGRAPHS, APPLICATION FORM, AND ANY				
SPECIFICATIONS				
Alteration, renovation, restoration (1/4 or 1/8"=1'0" scale drawings required IF walls or openings altered.)				
New addition (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)				
New building or structure (1/4" or 1/8"=1'0" scale drawings: elevations, floor plans, site plan)				
Demolition, removal of building features or building (1/4" or 1/8"=1'0" scale drawings: elevation of remaining site				
and site plan)				
A scale drawing, with an elevation view, is required for all sign submittals				
4. DESCRIBE PROJECT – Describe any work checked in #2 and #3 above. Attach additional sheets as needed.				
Installation of solar Panels at 41 E Market St and 54 E walnut st				
80 ACL 1 - 612.103				
5. APPLICANT'S SIGNATURE Ch for DATE: 8/36/23				
OWNER'S SIGNATURE Ch & Foul DATE: 8/30/23				











INVEST IN YOUR ENERGY FUTURE

A customized proposal for:

Chris Fowler

41 E Market St

Bethlehem, PA 18018



Why go solar?

SAVE MONEY

you were to purchase it from your utility. You keep the savings. Your home solar system generates electricity at a lower cost than if

REDUCE YOUR CARBON FOOTPRINT

Power your home with sunshine.

BE INDEPENDENT

home. Become less reliant on your utility by producing your own energy at

What's got you interested?

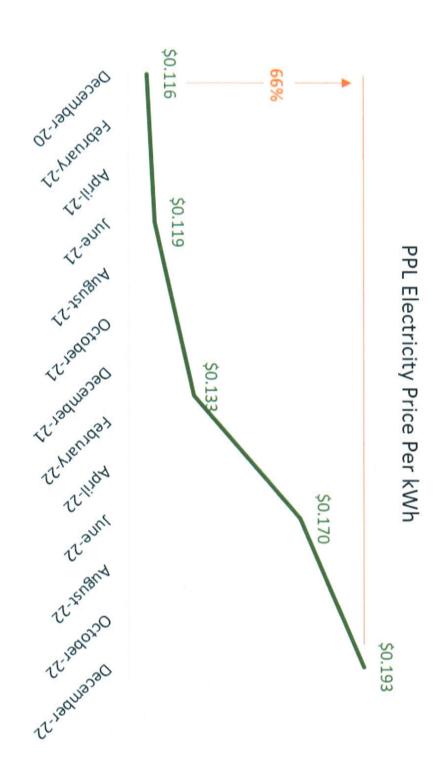
(Hint: it doesn't have to be just one)



Protect yourself from rising electricity rates

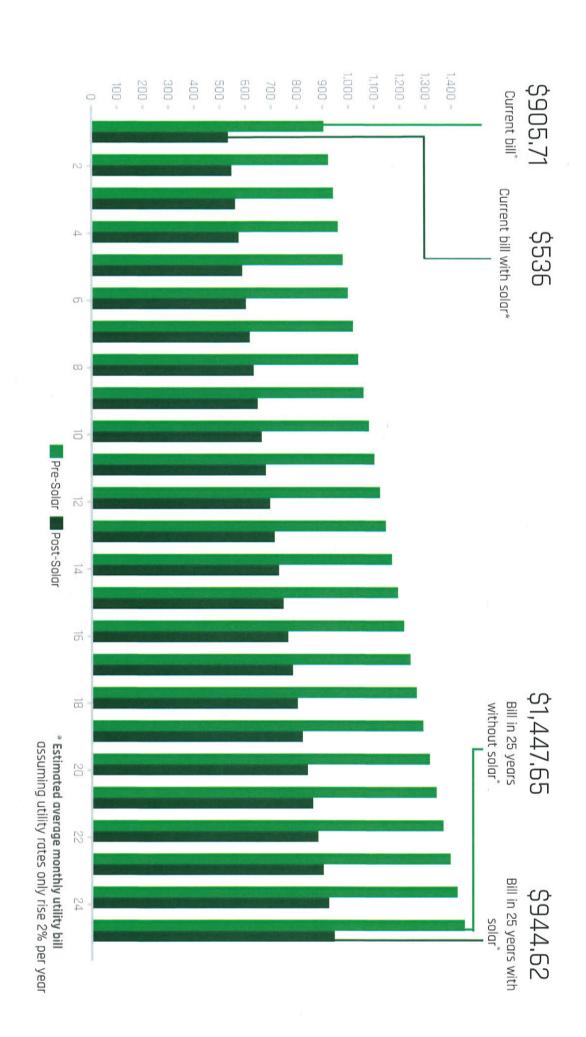


A solar investment generates MORE VALUE for you as electricity prices rise.



Lock in your electricity cost today





You have a choice



Assuming that electricity rates <u>only rise 2% per year</u>, here's how much you'd pay for electricity

Continue to buy electricity from your utility

\$346,857

Estimated 25-year electric bill without solar

Invest in solar and generate your own electricity*

\$240,226

Estimated 25-year electric bill with solar + solar investment

INVESTING IN SOLAR WOULD REDUCE YOUR ELECTRICITY COST BY

\$106,631

How we design & model home solar systems



YOUR SYSTEM DESIGN

We place solar panels in the best locations and calculate how much energy they'll produce sunlight model is generated and shows us where the sunniest places are on your roof or property. Using high quality aerial imagery, we model your roof space and your surrounding property. A

ENERGY SAVINGS AND SRECS

Using your current electricity costs, projected future electricity costs and the results of our energy model, we project how much you'll save from generating your own solar energy.

not assume any future increase in SREC prices Current prices for SRECs in Pennsylvania are combined with our energy model to project how much SREC income you'll receive. We assume that the SREC program will be in place for 15 years and do

INITIAL ESTIMATES VS. FINAL DESIGN

root condition and structural soundness and capacity of your home's electrical system actual conditions on your property including roof space and dimensions, obstructions and shading, change. If you're interested in home solar, we will conduct a site engineering audit in order to verify All initial estimates, including price, incentives, energy generation and energy savings are subject to

update our initial system design and estimates and present you with a final proposal. If we discover anything which changes our initial design during the site engineering audit, we will

Your home solar system





A NOTE FROM YOUR SYSTEM DESIGNER

the rear roofs that face east and west in order to generate as much electricity as possible. I filled both your main front roof (southern-facing) and also

SYSTEM SPECS

Number of solar panels

System capacity

38

15.20 kW

Annual energy generated

14,066 kWh

42%

of your electricity from solar

YOUR IMPACT ON THE ENVIRONMENT



5,284 trees The equivalent to planting



year 20,403 fewer miles per The equivalent to driving

indicate the least sunlight. NOTE: Yellow roof areas indicate the most sunlight while dark red areas

Estimated cost, incentives and savings



SOLAR INVESTMENT

Project price \$47,120

Solar tax credit \$14,136

Total investment \$32,984 (NET OF TAX CREDIT)

RETURN ON SOLAR INVESTMENT*

\$106,631

SOLAR VALUE GENERATED

25 yr energy savings \$129,969

15 yr SREC income \$9,646

Lifetime value generated \$139,433

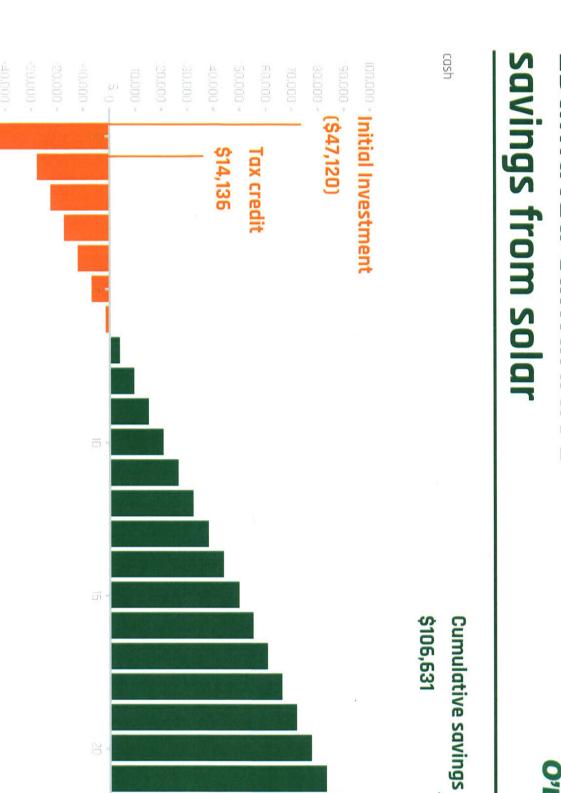
SIMPLE PAYBACK

6.3 yrs

*Lifetime solar value generated minus total investment net of tax credit

Estimated cumulative





Next steps



If you're interested in exploring your solar options...



We schedule a meeting with one of our solar advisors

N



We schedule a site engineering audit

W



Based on the results of the audit, we may update your solar design, price and savings estimates

4



We send you a final proposal

What our customers are saying





My husband and I wanted custom installation of solar panels with a of their work. Communication with O'Donnell Solar has been excellent, I initial use. The inspector told us that he was impressed with the quality backup battery system. O'Donnell Solar was extremely professional and would definitely recommend them for your solar needs helpful. The system has provided us 100% energy independence in the

-Doreen S

work great. I highly recommend this company. and controlling the system through both browser and smartphone app manufacturers products installed so far. The features for monitoring backup, I'm very satisfied with the quality of the installation and the satisfied with their performance and my 8.8kW system and battery both roofing and solar and being a local small business. Overall, I'm very I chose to use O'Donnell Solar Co. due to their years of experience in

-Christian T.



Why choose O'Donnell Solar?



LOCAL CLEAN ENERGY AND CONTRACTING EXPERTISE

O'Donnell Roofing's local knowledge and contracting expertise to deliver quality projects with personalized upper main line. As a sister company, O'Donnell Solar combines its solar and energy expertise with Since 1924, O'Donnell Roofing has provided quality roofing, siding and carpentry to Delaware County and the

WE KNOW WATERPROOFING

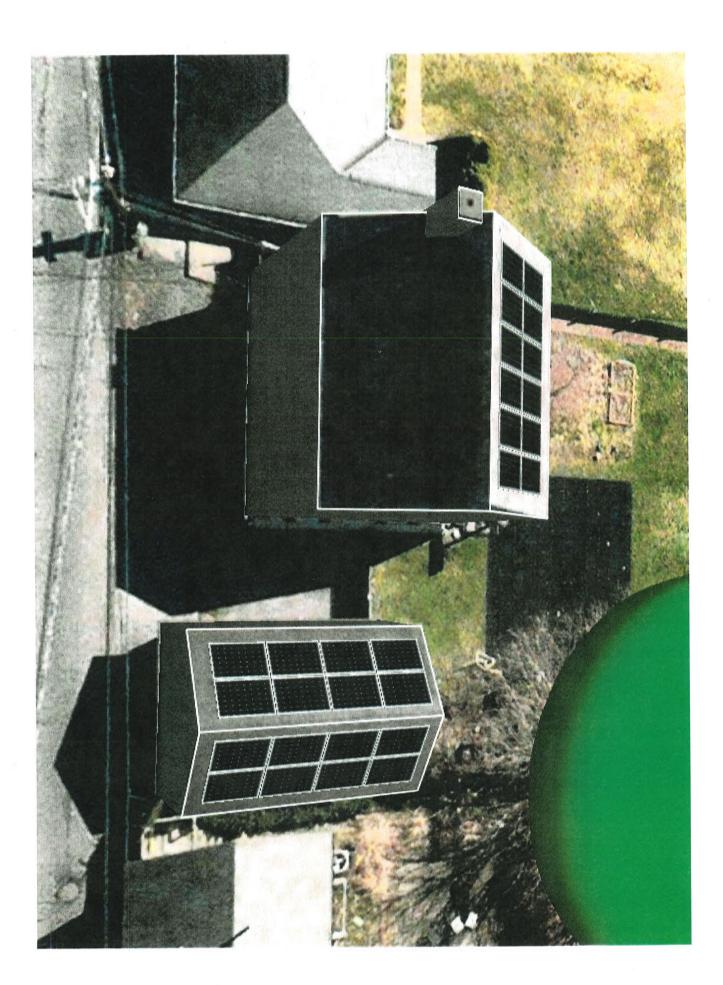
experience, there's no one better to make sure those attachment points are correctly waterproofed Installing solar panels on your roof can require 50-100 attachment points. With nearly a century of roofing

NO FINGER POINTING

about the one contractor blaming another for any issues. You'll have one point of contact and we'll take care of any issues quickly and professionally. O'Donnell Solar installs your home solar, batteries, EV charger and / or roof, you won't have to worry







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Power your home with sunshine.

BE INDEPENDENT

Become less reliant on your utility by producing your own energy at

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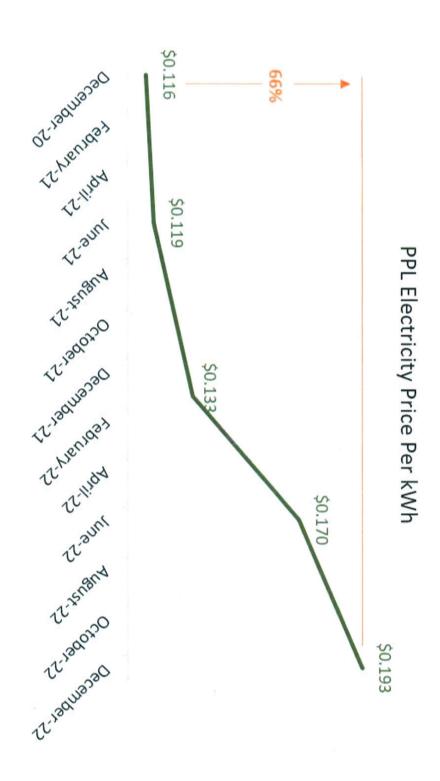
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Protect yourself from rising electricity rates

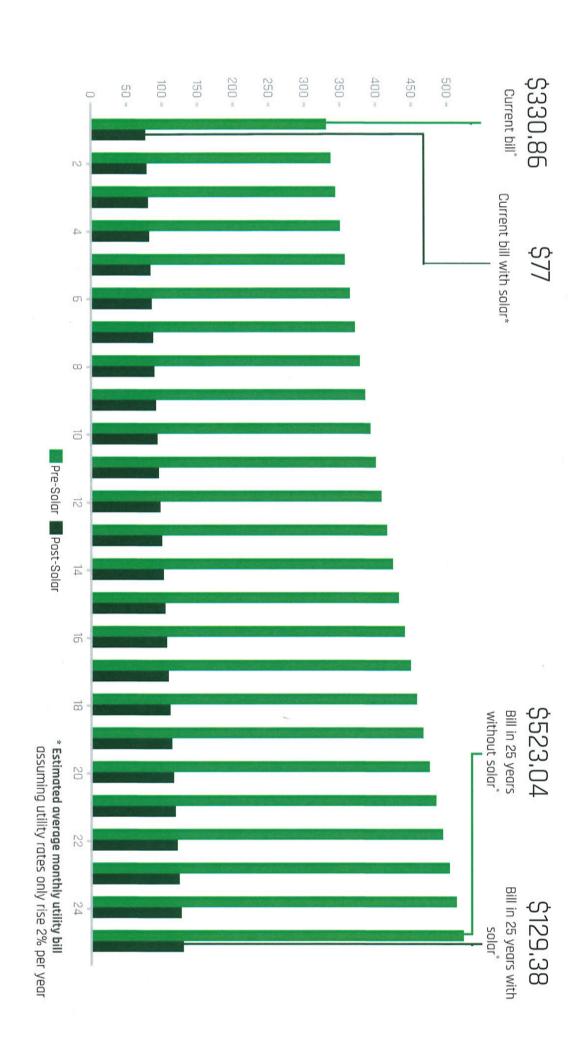


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Lock in your electricity cost today





You have a choice



if you: Assuming that electricity rates <u>only rise 2% per year</u>, here's how much you'd pay for electricity

Continue to buy electricity from your utility

\$125,905

Estimated 25-year electric bill without solar

Invest in solar and generate your own electricity*

\$46,324

Estimated 25-year electric bill with solar + solar investment

INVESTING IN SOLAR WOULD REDUCE YOUR ELECTRICITY COST BY

\$79,581

How we design & model home solar systems



YOUR SYSTEM DESIGN

sunlight model is generated and shows us where the sunniest places are on your roof or property. Using high quality aerial imagery, we model your roof space and your surrounding property. A We place solar panels in the best locations and calculate how much energy they'll produce

ENERGY SAVINGS AND SRECS

model, we project how much you'll save from generating your own solar energy. Using your current electricity costs, projected future electricity costs and the results of our energy

not assume any future increase in SREC prices. SREC income you'll receive. We assume that the SREC program will be in place for 15 years and do Current prices for SRECs in Pennsylvania are combined with our energy model to project how much

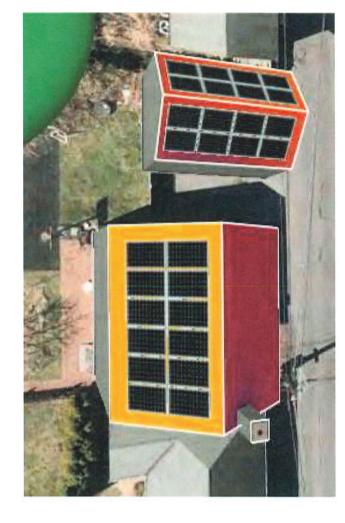
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Your home solar system





SYSTEM SPECS

Number of solar panels

28

System capacity

ty

11,20 kW

Annual energy generated

d 11,997 kWh

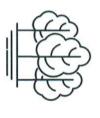
100%

of your electricity from solar

A NOTE FROM YOUR SYSTEM DESIGNER

We used the southern roof space on the main structure and both east and west roofs on the garage in order to supply all of your estimated electricity use for this property.

YOUR IMPACT ON THE ENVIRONMENT



The equivalent to planting 4,507 trees



The equivalent to driving
17,402 fewer miles per
year

NOTE: Yellow roof areas indicate the most sunlight while dark red areas indicate the least sunlight.

Estimated cost, incentives and savings



SOLAR INVESTMENT

Project price \$34,720

Solar tax credit \$10,416

Total investment \$2 (NET OF TAX CREDIT)

tment \$24,304

SOLAR VALUE GENERATED

25 yr energy savings \$95,658

15 yr SREC income \$8,227

Lifetime value generated \$103,885

RETURN ON SOLAR INVESTMENT*

\$79,581

SIMPLE PAYBACK

6.4 yrs

*Lifetime solar value generated minus total investment net of tax credit

FUTURE FUTURE

A customized proposal for:

Chris Fowler

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Bethlehem, PA 18018



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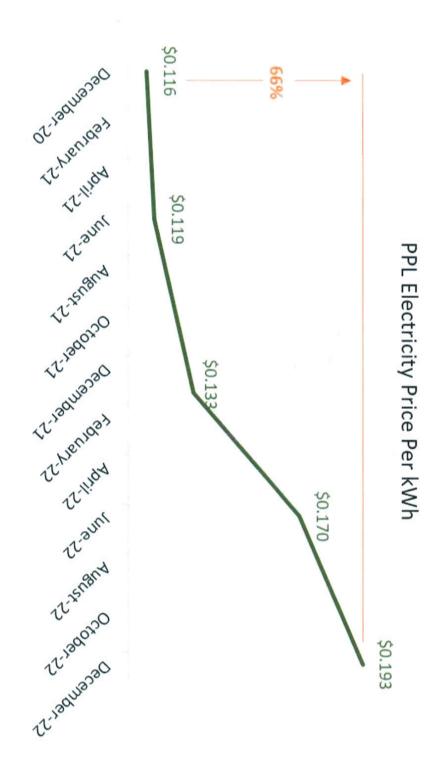
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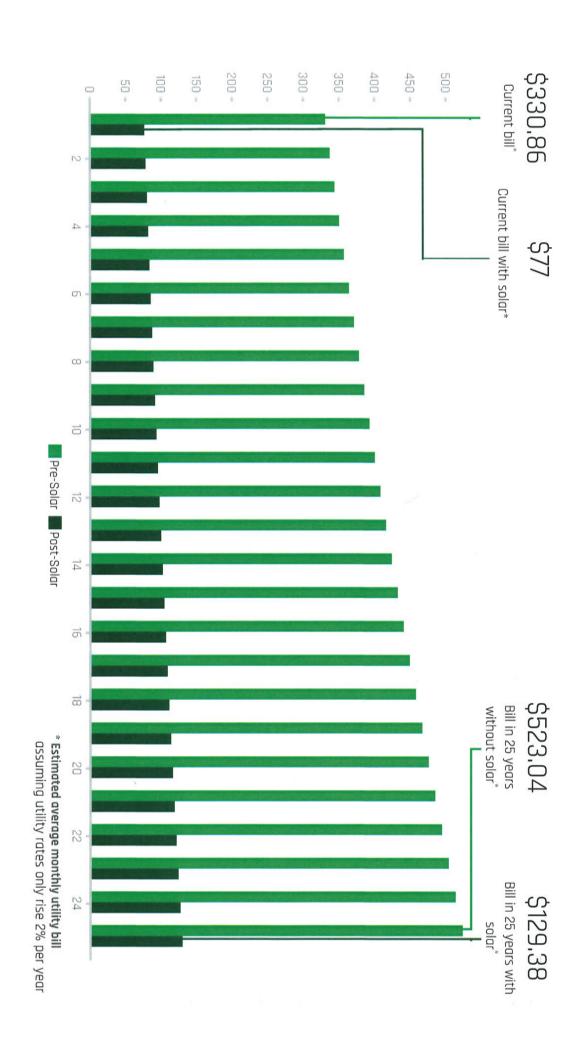


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System capacity

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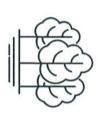
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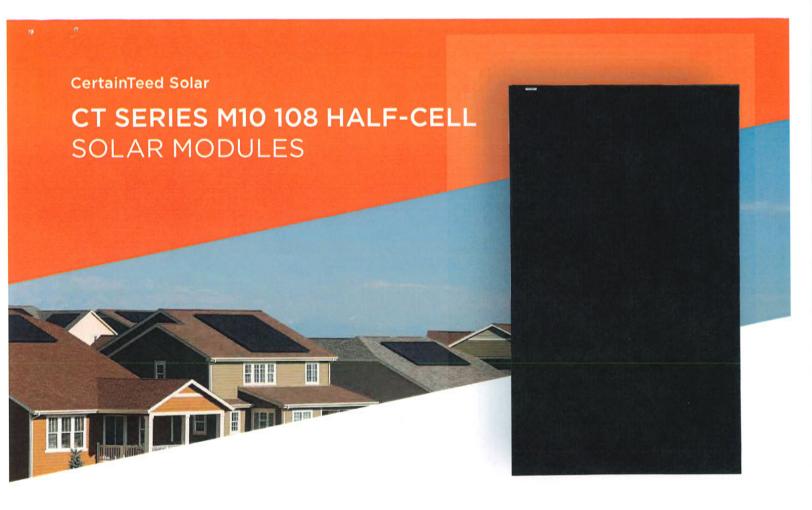
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6.4 yrs

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Half-Cell Monocrystalline Type

CTM10400HC11-06



Features and Benefits

High Quality / High Power

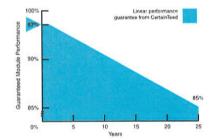
- 400W with black backsheet
- UL listed (61730-1, UL 61730-2)
- Positive power output tolerance

Limited Warranty*

- 25-year linear power output warranty
 - *See CertainTeed's limited warranty for details

See reverse for product specification:







) Electrical Characteristics

		400W
Nominal Output (Pmpp)	W	400
Voltage at Pmax (Vmpp)	٧	31.01
Current at Pmax (Impp)	А	12.90
Open Circuit Voltage (Voc)	٧	37.04
Short Circuit Current (Isc)	Α	13.79
Output Tolerance	W	-0/+5
No. of Cells & Connections		108 half-cells with 3 bypass diodes
Maximum Series Fuse Rating		• 25A
Cell Type		• Monocrystalline •
Module Efficiency	%	20.5
Temperature Coefficient of Pmpp	%/C	-0.35
Temperature Coefficient of Voc	%/C	-0.27
Temperature Coefficient of Isc	%/C	+0.05

Mechanical Characteristics

Glass	Glass: 3.2 high transmission, tempered	
Frame	Anodized aluminum (Black)	
Junction Box	IP68	
Output Cables	4 mm² (12AWG) PV Wire, Length 1.2m (47.2")	
Connectors	Polarized MC compatible	
Weight	48.5 lbs (22 kgs)	



Operating Conditions

Dimensions	1722 x 1134 x 35mm
Nominal Operating Cell Temp.	45° C
Operating Temperature	-40 to 85° C
Maximum System Voltage	1,500V
Fire Performance	Class C / Type 1
Maximum Wind Load	112 lbs/ft² (5400 Pa)
Maximum Snow Load	112 lbs/ft² (5400 Pa)



