NANTUCKET'S PATH TO SOLSMART STATUS

Daniel Brower, Brendan Fainer, Grace Phillips, Alana Reid

Sponsor: Lauren Sinatra, Nantucket Energy Office

UND

1865

SOLSMART IS A NATIONAL PROGRAM THAT RECOGNIZES PLACES THAT HAVE DEMONSTRATED SOLAR LEADERSHIP.



NATIONALLY DISTINGUISHED. LOCALLY POWERED.

BRONZE **SILVER PLATINUM** GOLD

NATIONALLY DISTINGUISHED. LOCALLY POWERED.

HOW TO ACHIEVE A SOLSMART DESIGNATION

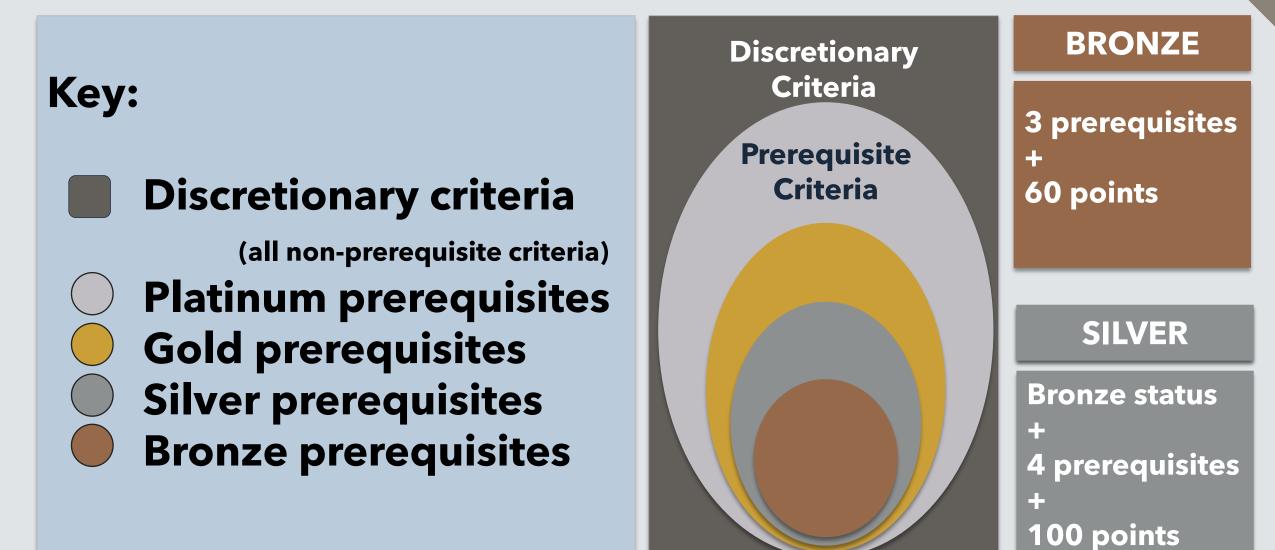


2. ZONING REVIEW





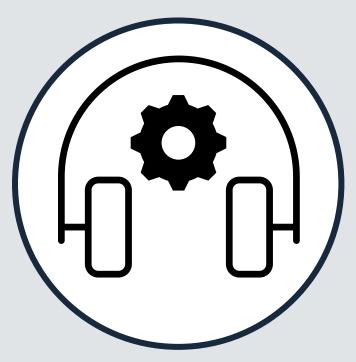
• Award 0, 5, 10, or 20 points



Prerequisite criteria + sufficient points = SolSmart designation



3. TECHNICAL ASSISTANCE



4. DESIGNATION



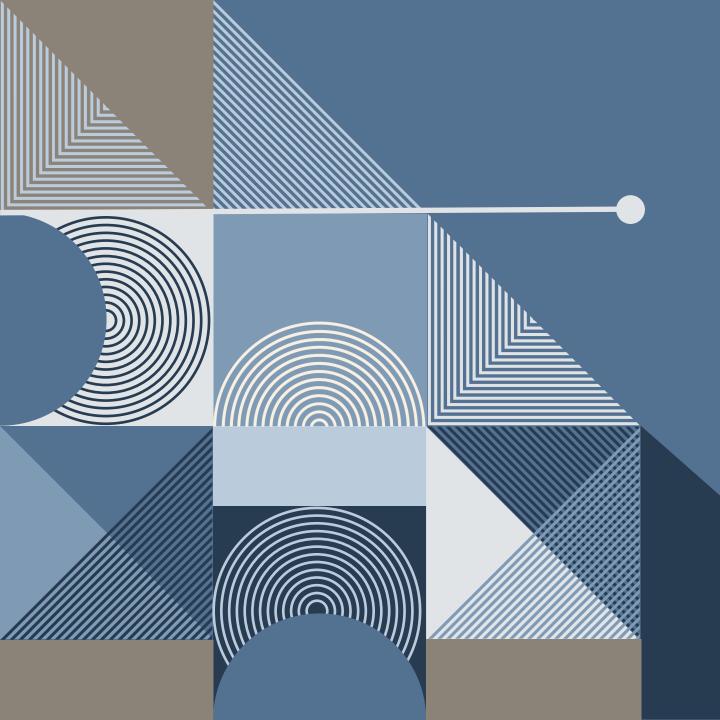
NANTUCKET IS A SOLAR LEADER

Image Credits:

Surfside: <u>https://nantucket-ma.gov/DocumentCenter/View/45545/Town-Powers-Up-First-Municipal-Solar-Project-at-the-Surfside-Wastewater-Treatment-Plant-Press-Release-PDF</u>; solar map: <u>https://web.archive.org/web/20231208144413/https://www.nantucket-ma.gov/1156/Solar-Map-Resources</u>; Additional images provided by the Town of Nantucket Energy Office

OBJECTIVES





RESULTS

SOLSMART POINTS AS OF 12/12

Status	Total Points
Attempting	50
Complete	165
Total	215

- 215 of the 100 points required for SolSmart Silver status
- Silver prerequisites
 - Solar Landing Page

SOLAR LANDING PAGE



UPDATED FAQS

PERMITTING CHECKLIST

BAR GRAPHS UPDATED SOLAR MAP

UPDATED FAQS



MORE QUESTIONS UPDATED ANSWERS



PERMITTING CHECKLIST

Permitting Checklist

shows:

- Required Permits
- Permit Fees
- And more!



Nantucket Energy Office | 2 Fairgrounds Rd | Energy Office | Nantucket, MA - Official Website

Solar Photovoltaic (PV) System Permitting Checklist

The pre-submittal checklist below contains the minimum information and project plan details required to be submitted to The Town of Nantucket when applying for a permit to install a solar photovoltaic (PV) system. The intent of using the checklist is to provide transparent and well-defined information to minimize the number of required revisions, improve permit application quality, and accelerate the application and review process.

Both residential and commercial solar PV installations follow the same process on Nantucket.

The following local design guidelines should be used when planning a solar PV installation:

- Building With Nantucket in Mind
- Nantucket Historic District Commission (HDC) Solar Guidelines
- Nantucket Fire Department Solar PV Plan Review Checklist

A permit must be obtained prior to the start of any work. Complete the following permit application forms and submit any additional required documents. Permit application forms can be picked up from 2 Fairground's Rd (open from 7:30 AM to 4:30 PM on weekdays).

Required Permits:

- HDC Certificate of Appropriateness (COA) [Link to watermarked application]
- Electrical Permit [Link to watermarked application]
- Building Permit¹ [Link to watermarked application]
- Environmental (Only for ground-mount systems)
 - MESA Review²
 - Conservation Commission¹

Additional Required Documents:

HDC COA submission:

- All applicable items listed on the required documents <u>Checklist</u>
- <u>10 Day Waiver</u> for HDC hearing
 Electrical Permit:
 - Fee check (made out to the Town of Nantucket)/cash
 - Schematic and specifications of solar PV system

¹ Ground mounted arrays are required to receive a Health Department review of the Building Permit ² Required for ground array systems installed on land that is designated as having state listed species habitat. ³ Required for ground array system installed on designated wetlands and within the 100⁵ Buffer Zone

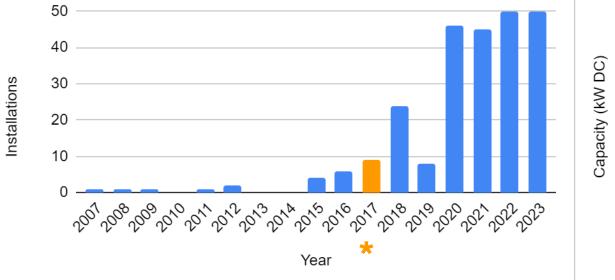


RESIDENTIAL SOLAR INSTALLATIONS

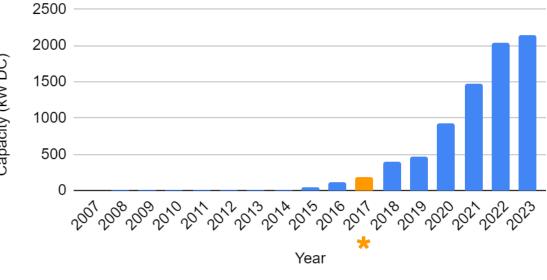
RESIDENTIAL INSTALLATIONS

CUMULATIVE INCREASE IN RESIDENTIAL KILOWATT CAPACITY

Nantucket Residential Solar Installations By Year



Cumulative Increased Residential Solar Capacity Since 2006



* The Local Solar Rebate Began in 2017

SOLAR MAP

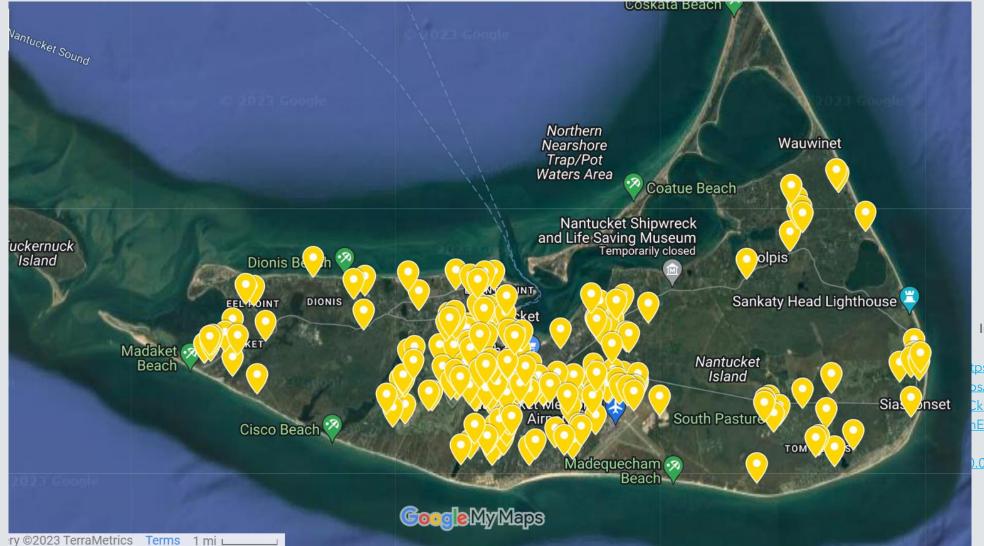


Image from updated Google My Map: tps://www.google.com/m ps/d/viewer?mid=1QPC0 CkD1Mr7IVLUhXSssCZFhEzyBw&ll=41.301546720 132116%2C-0.09520194520087&z=12

14



ACHIEVE SILVER STATUS

- Most of the work is complete
- Nantucket has earned 165 of the 100 required points for Silver status
- Prerequisites:

☑ Staff Training

☑ Zoning Determination letter

□ Solar Landing Page



January 2024

COMPLETE GOLD PREREQUISITES

- With completion of Silver,
 - 215/200 Gold point requirement
- Gold prerequisites:
 - Codify solar by right use
 - Zoning Barrier Removal
 - 3-day Permit turnaround time



MAINTAIN SOLAR LANDING PAGE

- Quarterly update the Solar Map
 - Creating instructions for
 - sponsor
- Update other resources:
 - Permitting Checklist
 - FAQs

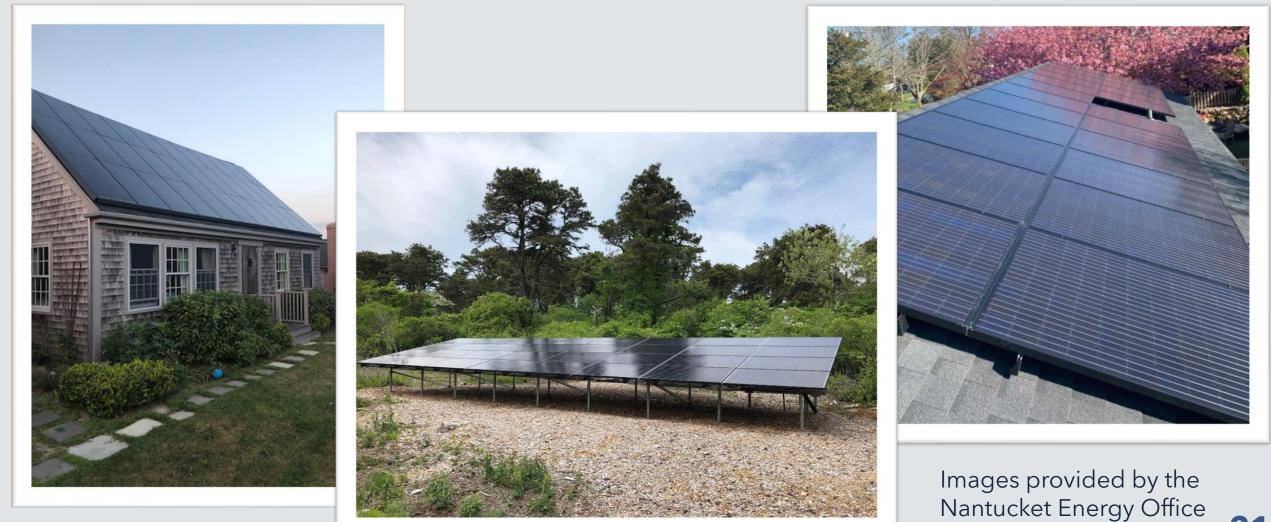
🛓 Solar Map Updater	- 🗆 X		
Solar Map Updater			
Please select the .csv files resulting from your EnverGov Advanced searches and, if desired, the .csv saved from the SOLAR Rebate Excel file. How to Run EnerGov Advanced Searches			
COA Applications	Select File		
Electric Permits	Select File		
Building Permits	Select File		
SOLAR Rebates (Optional)	Select File		
	Submit and Run Clear Files		

AMENDMENTS TO PERMITTING PROCESS

- Digitize the permitting process
- Develop "solar-only" permits:
 - The Historic District Commission's Certificate of
 Appropriateness
 - Building

	CERTIFICATE NO. DATE ISSUED:	
CERTIFICATE NO:	for structural work. All blanks must be filed in using BLU GOR BLACK Nix (no poncil) or marked N/A. NOTE: It is strongly recommended that the applicant be familiar with the HDC guidelines, <i>Building with Nantucket in Mind</i> , prior to submittal of application. Please see other side for submittal requirements. Incomplete applications will not be reviewed by the HDC.	ISSUED:
	This is a contractual agreement and must be filled out in ink. An application is hereby made for issuance of a Certificate of Appropriateness under Chapter 395 of the Acts and Resolves of Mass., 1970, for proposed work as described herein and on plans, drawings and photographs accompanying this application and made a part hereof by reference.	
NOTE: It is strongly recommended Please see	The certificate is valid for three years from date of lesiance. No structure may differ from the approved application. Violation may impede issuance of Certificate of Occupancy. FOR OFFICE USE ONLY TAX MAP N°: 99999999 PARCEL N°. 9999 9999 Street & Number of Proposed Work: 2 Whale Rd Extended to:	nd, prior to submittal of application.
This is a contractual agreement and mu Resolves of Mass., 1970, for proposed of	Owner of record: Moby Dick Approved: Disapproved: Chairman: Mailing Address: 2 Whale Rd, Nantucket MA, 02554 Chairman: Chairman:	ness under Chapter 395 of the Acts and on and made a part hereof by reference.
The certificate is valid for three years fro from the approved application. Violation Occupancy.	Contact Phone #: 555-5555 E-mail: Imawhale@whales.org Member: AGENT INFORMATION (if applicable) Momber: Momber: Name: Workes - Comments - Restrictions - Conditions	SE ONLY
PROPERTY	Mailing Address: Notes - Comments - Hestrictions - Conditions	Fee Paid: \$
TAX MAP N°: 99999999	Contact Phone #: E-mail:	
Street & Number of Proposed Work: Owner of record:Moby Dick	DESCRIPTION OF WORK TO BE PERFORMED See reverse for required documentation. New Dwelling Addition Garage Driveway/Apron Commercial Historical Renovation Deck/Patio Steps Shed Color Change Fence Gate Hardscaping Move Building Demolition Revisions to previous Cert. No.	Disapproved:
Mailing Address: 2 Whale Rd, Nant	Pool (Zoning District) Roof ✓ Other Install 10 all-black solar PV modules to rooftop of primary dwelling. Size of Structure or Addition: Length: Sq. Footage 1st floor: Decks/Patio: Size: 1st floor 2nd floor	
	Sq. footage 21d nort 3ize 1 ist nod 1 21d nort	
Contact Phone #: 555-5555	Difference between existing grade and proposed finish grade: North South East West Height of ridge above final finish grade: North East West	
AGENT INFORMA	Historic Name: (describe) 2. South Elevation Original Date: 3. West Elevation	
Name:	Original Builder: 4. North Elevation	
Mailing Address:	Is there an HDC survey form for this building attached? Yes N/A *Cloud on drawings and submit photographs of existing elevations.	ns
Contact Phone #:	Roofing material:	
	Leaders (material and size):	
DESCRIPTION OF WORK TO BE PERFOI See reverse for required documentatio	Sidewall: White cear shingles Clapboard (exposure: inches) FrontSide	
Roofing material: Asphalt: 3.	Trim: A. Wood Pine Redwood Cedar Other B. Treatment Paint Natural to weather Other	icture or Addition: Length: 3
□ Wood (Type	C. Dimensions: Fascia Rake Soffit (Overhang) Corner boards Frieze Window Casing Corner Sound Square Columns/Posts: Round Square All Merce	Width:4'
I hereby authorize the agent named above tion into compliance with the HDC guidel any revisions to this application will initiat Date October 18, 1851	Windows*: Double Hung Casement All Wood Other	pplication in order to bring the applica- h. I hereby agree that the submission of
	Sidewall Roof Trim Sash Doors Deck Foundation Fence Shutters	Signed under penalties of perjury
	* Attach manufacturer's color samples if color is not from HDC approval list.	
	I hereby authorize the agent named above to act on my behalf to make changes in the specifications or the plans contained in this application in order to bring the applica- tion into compliance with the HDC guidelines. I hereby agree to abide by and comply with the terms and conditions of this application. I hereby agree that the submission of any revisions to this application will initiate a new sixty-day review period. Date October 18, 1851 Signature of owner of record	

NANTUCKET IS A SOLAR LEADER



ACKNOWLEDGEMENTS

- Project Advisors, Dr. Fred Looft & Dr. Susan Jarvis
- Sponsor, Lauren Sinatra
- Town of Nantucket Staff
- C Local solar installers
- SolSmart community interviewees
- Nantucket Yacht Club
- Young's Bicycle Shop

•THANK YOU! QUESTIONS?