

Tomorrow is Happening Now:

Challenges & Opportunities Facing Solar Energy on Cape Cod

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Agenda Topics



How Solar Works



Challenges Facing Solar



Opportunities for Solar on Cape Cod

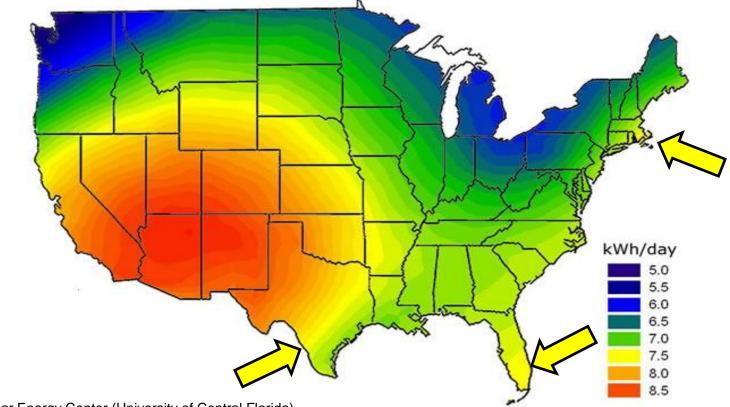


Questions



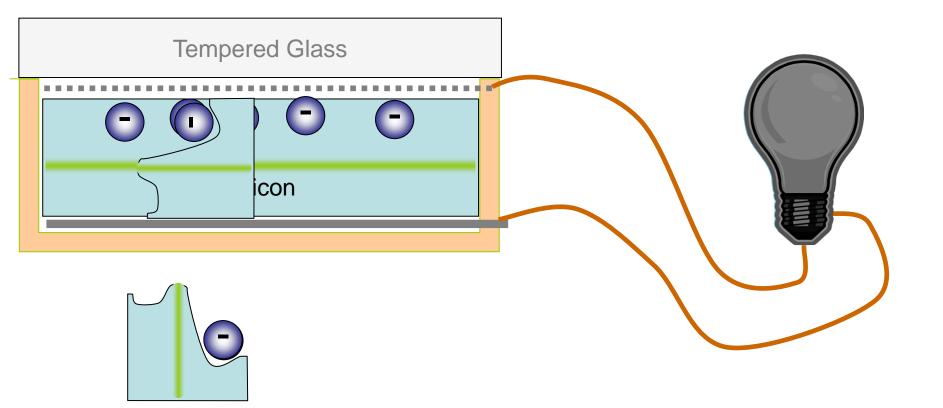
Solar in the Northeast

Does Solar Make Sense on Cape Cod? Did you know that we are the solar capital of the Northeast?



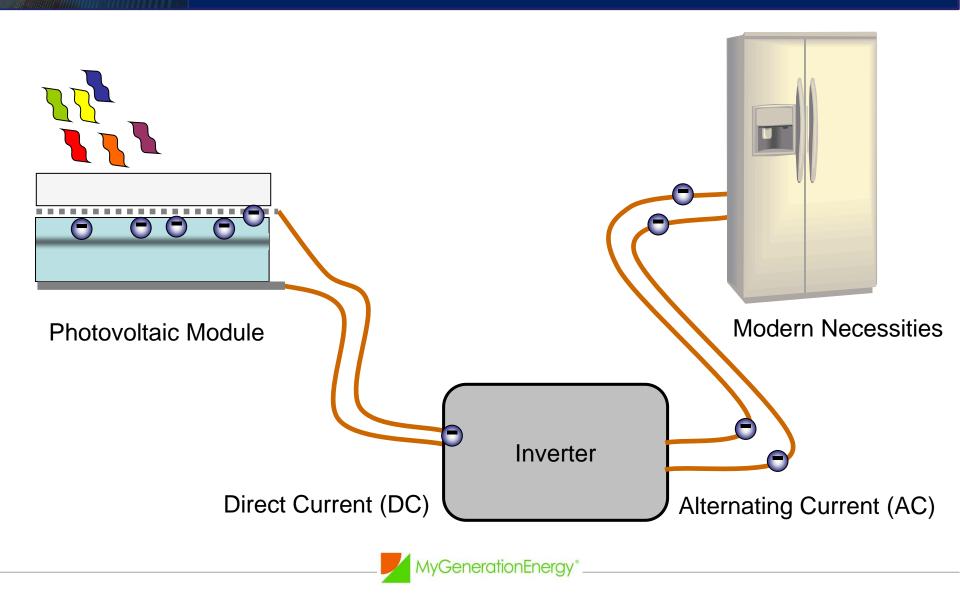
Source: Florida Solar Energy Center (University of Central Florida)

How Does Solar Work?

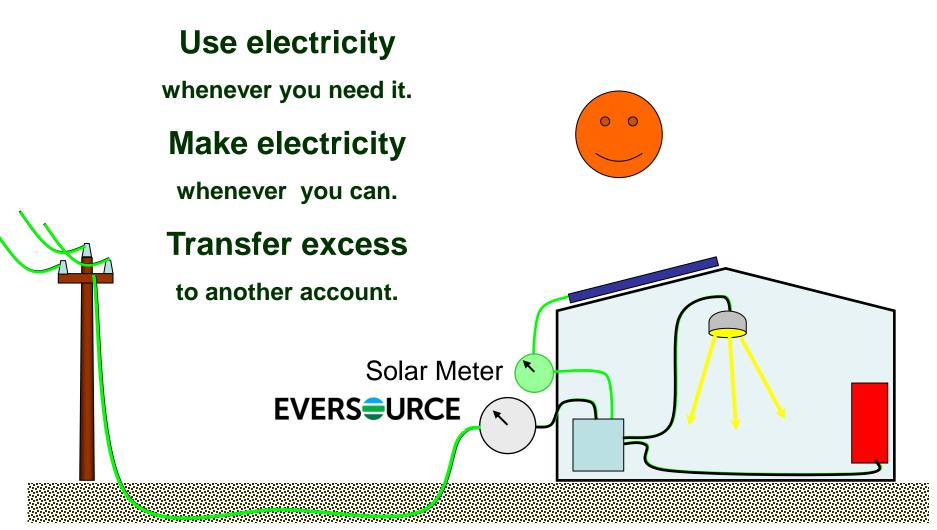




How Does Solar Run My House?

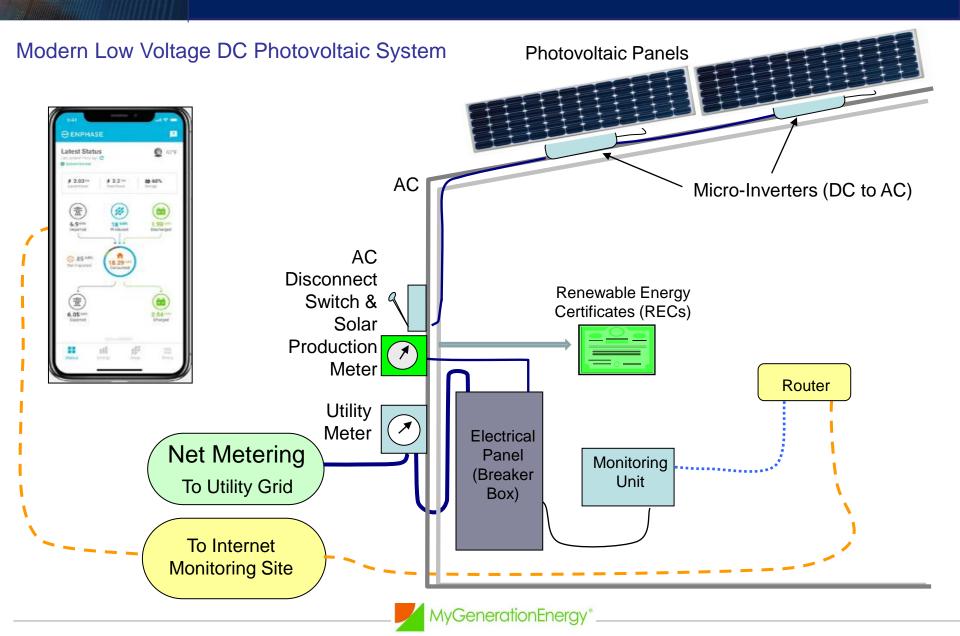


What is Net Metering?





Project Design & Components





Getting Historic Approval for Solar



- Different policies for different towns
- The Historic Business District Commission (HBDC) in Chatham is better about approving solar, unlike Old King's Highway.
- Dwellings that are not considered historic still get rejected by the historical commission

Permitting/Interconnection



- New setback restrictions
 - Inconsistency with policy interpretation
- Utility regulations & Interconnection
 - No DPU oversight
 - Transmission/Impact Studies & Capital Improvement delays



Cost of living

- Housing
- Wages
- Childcare
- Decreased supply of talent

Financing

- Interest rates
- National solar leasing companies
- Nontransparent financing structures







Opportunities for Cape Cod



Opportunities: Financial Payback

System Description (# Modules)	24
Watts (DC)	10200
Price	\$35,190.00
Estimated State Tax Credit	\$1,000.00
Estimated Fed Credit	\$10,557.00
Effective Price after Tax Incentives	\$23,633.00

- The fixed electrical rate of \$0.335 per kWh
- The current REC value of \$0.035 per kWh
- We are not financial or tax advisors

Opportunities for Cape Cod

Whenever Possible...Buy Local

- Working Within the Community
- <u>Keeping Energy dollars local</u>
- More Than a Transaction: Providing jobs
- Community Investment
- <u>Solar helps combat climate</u> <u>change on Cape Cod</u>
- Help utility meet additional demand and the electrification of Cape Cod



Residential Projects



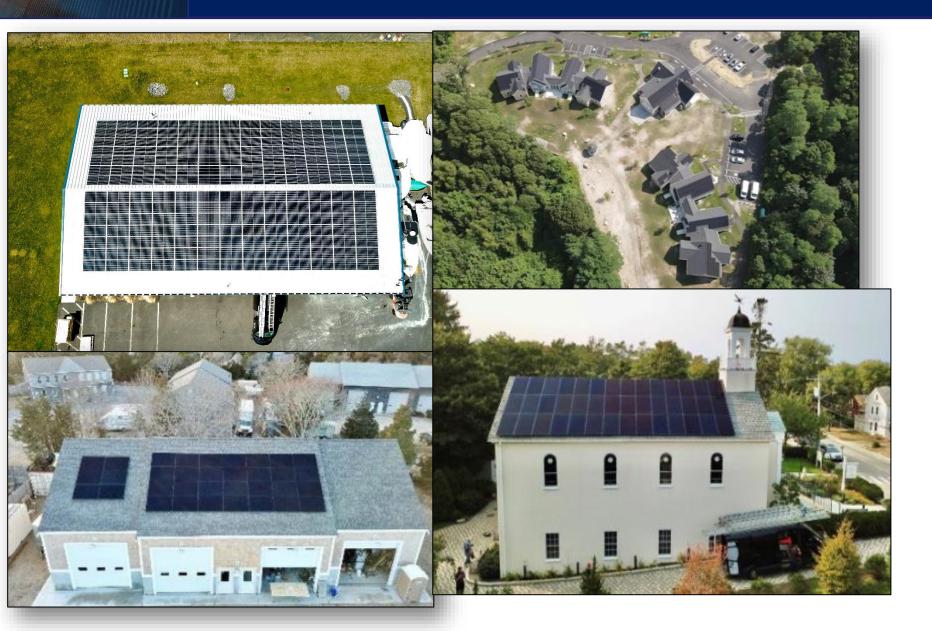
Residential Projects



Ground-mount projects



Commercial Projects



Commercial Projects



Mid-Scale Ground-Mount Facilities First Parish Brewster Solar

112 panels on an open lot



Commercial Projects





Large-Scale Ground-Mount Facilities Airport Way Solar September 27, 2012 5712 panels on 5 acres