



Share the Sun

Harness your power. Demand solar access for all.

Shared Solar

“Solar for the rest of us”

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June 2016



Connecticut Fund
for the Environment

Save the Sound®

What is Shared Solar?

A large solar array that provides power for many “subscribers” who buy a portion of the energy produced.
Anyone with an electric bill can participate.












Source: <http://votesolar.org/campaigns/shared-solar/>

But first -- why solar?

- **Saves \$ – reduces electric bills**
- **Reliable – lasts for decades**
- **Cleaner – good for the planet**
- **Jobs – good for the economy**

Saves \$ - CT needs relief!

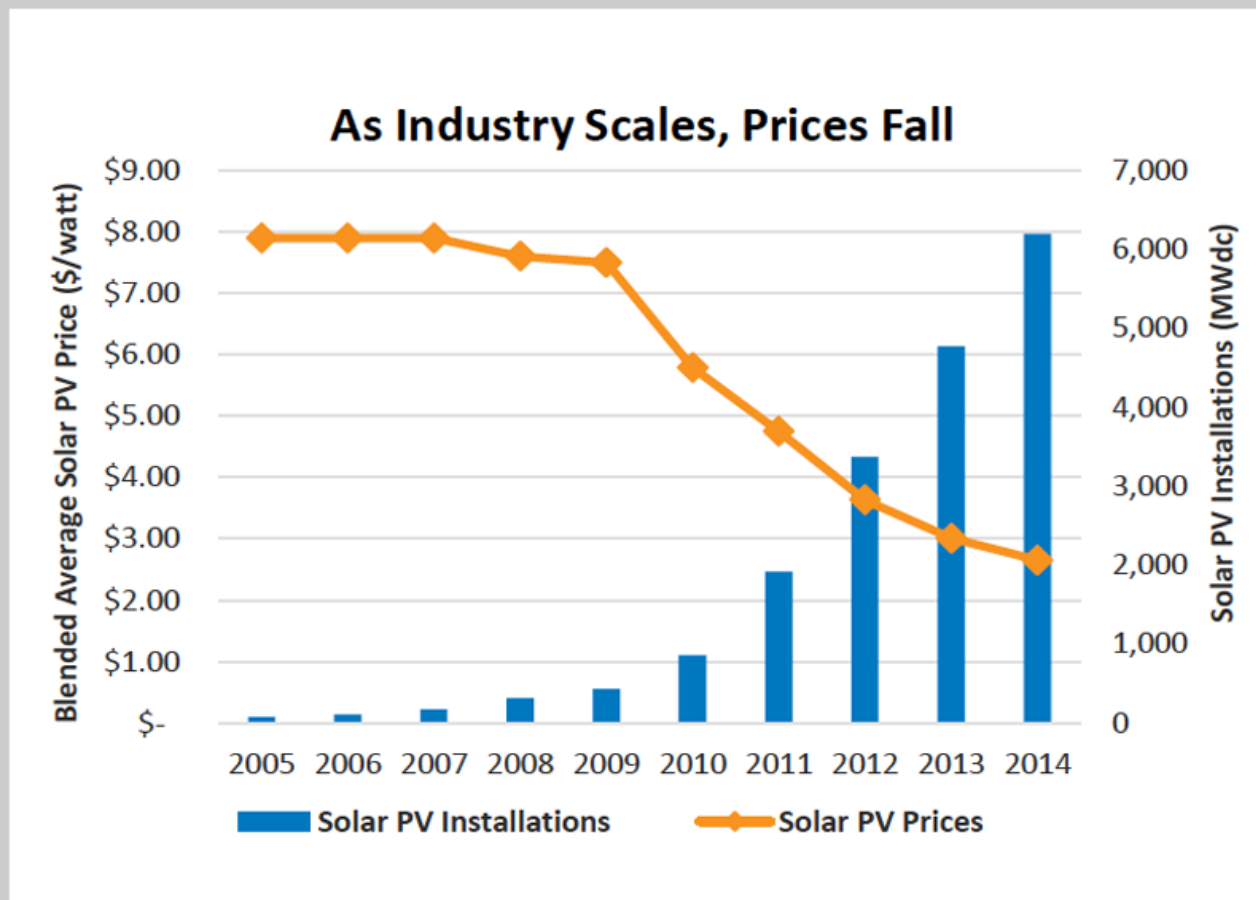
		Residential	
Census Division and State		March 2016 YTD	March 2015 YTD
New England		19.37	20.43
Connecticut		20.43	21.65
Maine		18.06	15.93
Massachusetts		19.64	21.50
New Hampshire		18.27	19.39
Rhode Island		18.73	19.24
Vermont		16.86	16.56
Middle Atlantic		15.28	15.77
New Jersey		15.50	15.51

Highest electric rates in the continental US

Source: http://www.eia.gov/electricity/monthly/epm_table_grapher.cfm?t=epmt_5_06_b

Solar reduces electric bills

Saves \$: solar costs go down ...

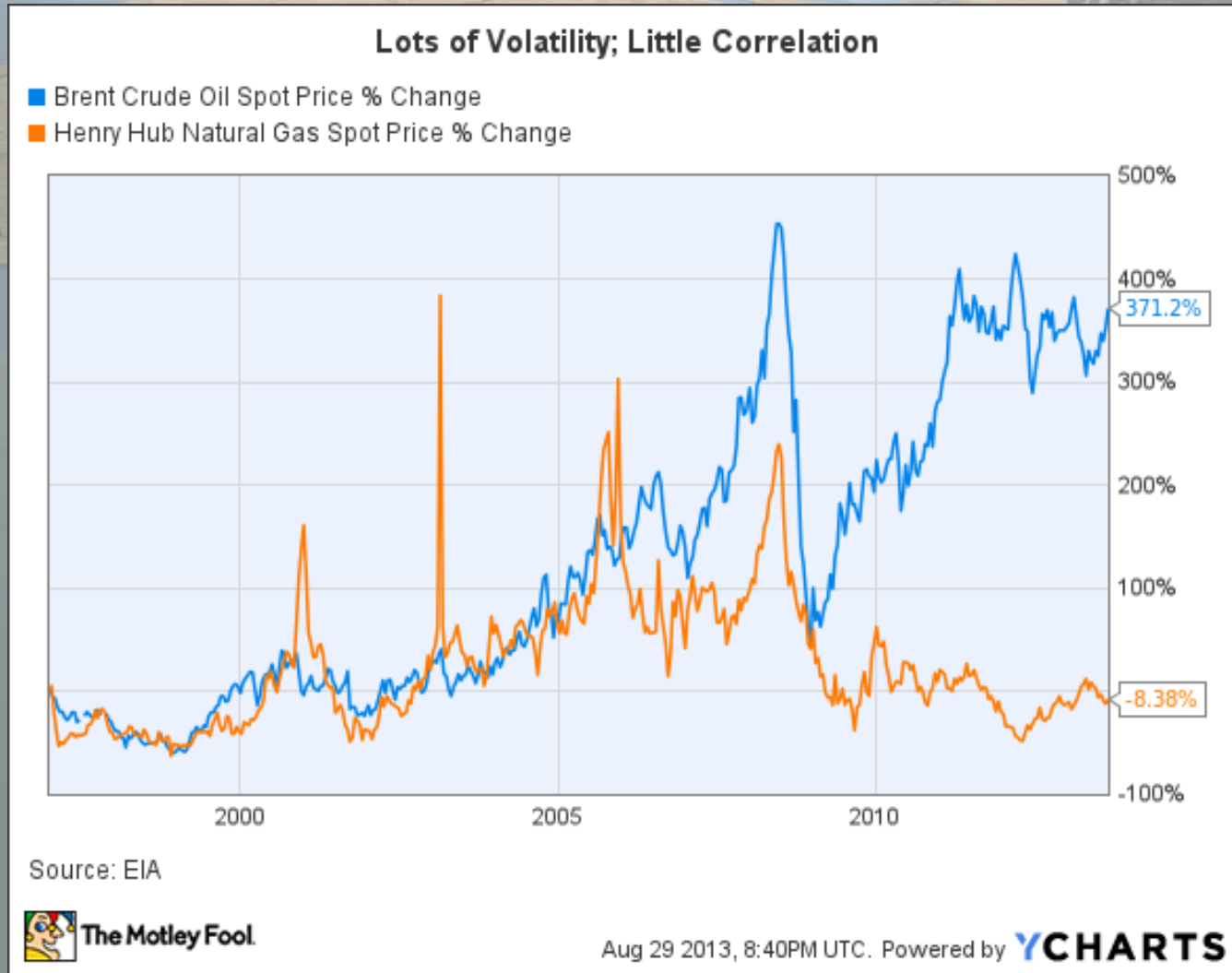


© 2015



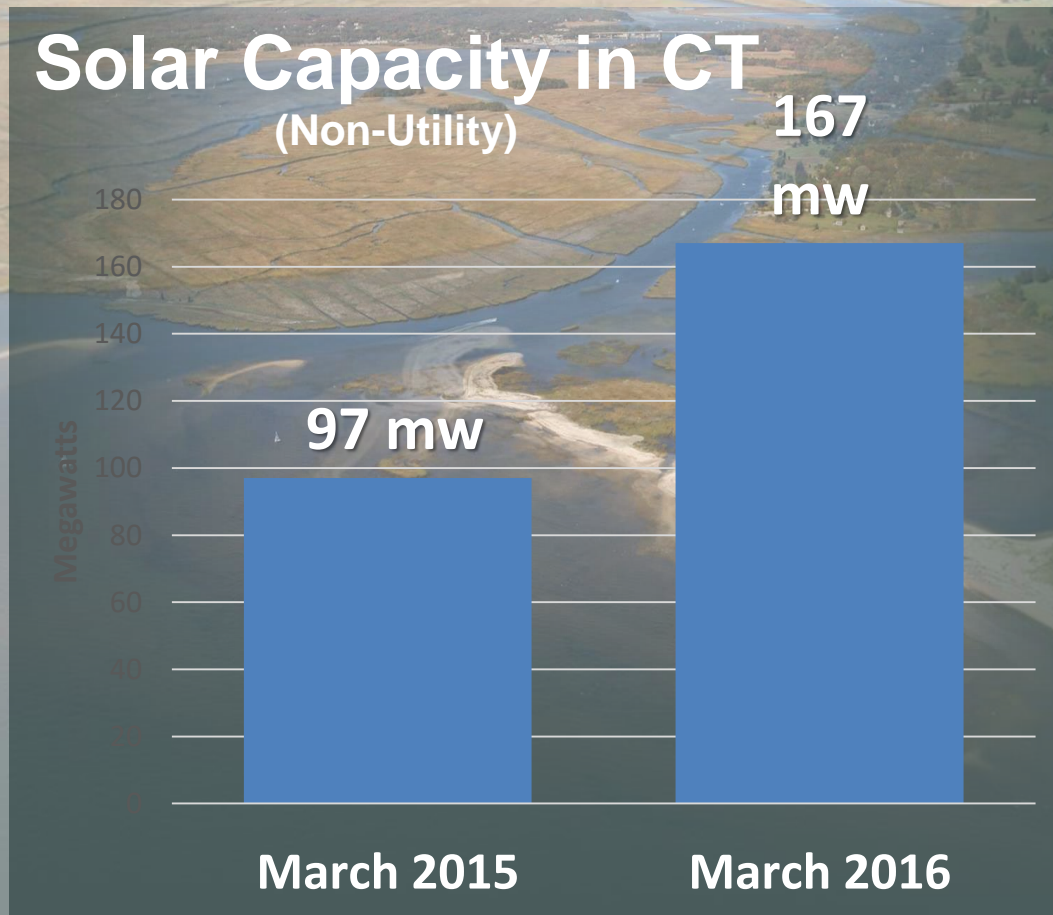
... installations up.

Oil and gas costs: unpredictable...



.. and go up over time.

CT loves rooftop solar



Source: US Energy Information Administration Electricity Monthly Updates - Table 6.2.B
http://www.eia.gov/electricity/monthly/epm_table_grapher.cfm?t=epmt_6_02_b

70% increase in 1 year!

Good for our economy

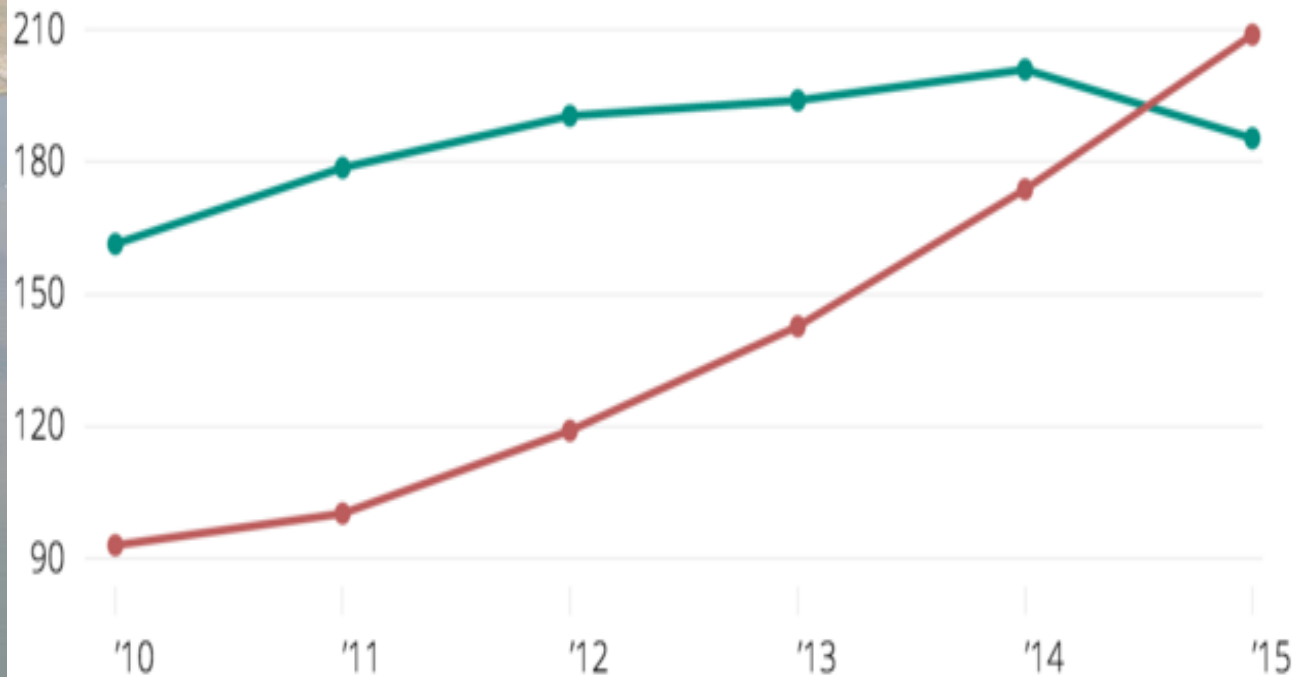
“... last year the solar industry added jobs 10 times faster than the rest of the economy...”

... the solar industry employs twice as many Americans as mining coal. .. ”

-- President Obama,
August 24, 2015

Energy Jobs By Industry

■ O&G (thousands) ■ Solar (thousands)



The Huffington Post

Source: The Solar Foundation and the Bureau of Labor Statistics

2000 CT solar jobs, 250 more / year

Good for our planet ...

Each CT home going solar benefits climate:

Not
driving
14,800
miles per
year

or

Not
burning
over 600
gallons of
oil per year

or

Planting
159
trees
per
year

Sources: <http://blog.energysage.com/health-environmental-benefits-of-solar-energy/>
<http://blog.energysage.com/what-is-the-environmental-impact-of-solar-energy/>

.. reducing global warming.

Why do we need shared solar?

4 out of 5 residents can't put solar on our roofs:

- shady roofs
- rent our homes
- live in apartments



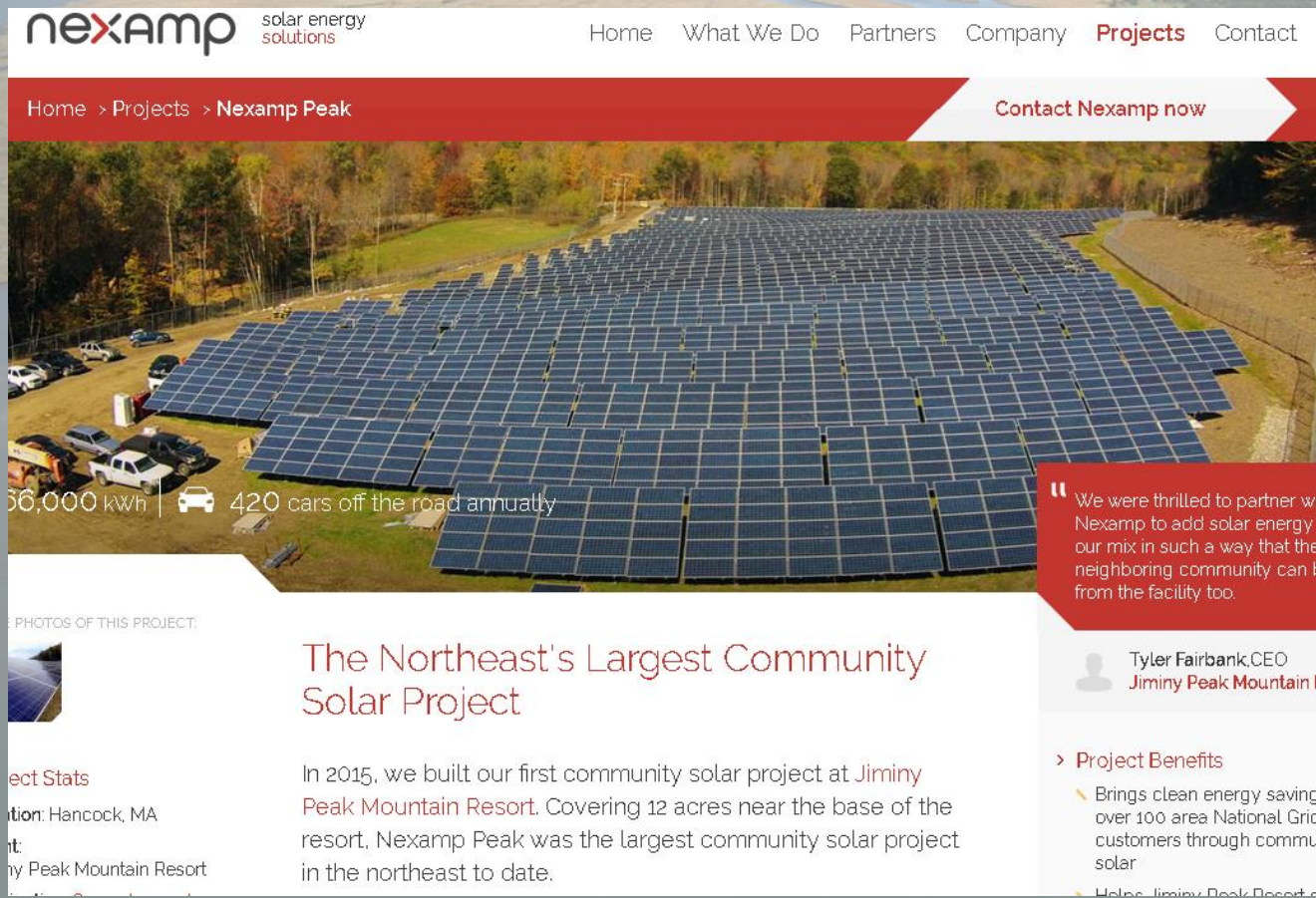
Where can shared solar be located?

Lots of possibilities!

- Brownfields
- Open space
- Large commercial buildings
- Parking lots ... and more!



Example: Hancock, MA



The screenshot displays the Nexamp website's project page for the Jiminy Peak Mountain Resort. The header includes the Nexamp logo and navigation links: Home, What We Do, Partners, Company, Projects, and Contact. A red banner below the header contains the breadcrumb 'Home > Projects > Nexamp Peak' and a 'Contact Nexamp now' button. The main image is an aerial view of a large solar panel array. Overlaid text on the image states '36,000 kWh' and '420 cars off the road annually'. To the right, a quote from Tyler Fairbank, CEO of Jiminy Peak Mountain Resort, reads: 'We were thrilled to partner with Nexamp to add solar energy to our mix in such a way that the neighboring community can benefit from the facility too.' Below the image, the title 'The Northeast's Largest Community Solar Project' is followed by a paragraph: 'In 2015, we built our first community solar project at Jiminy Peak Mountain Resort. Covering 12 acres near the base of the resort, Nexamp Peak was the largest community solar project in the northeast to date.' A 'Project Stats' section lists the location as Hancock, MA and the project as Jiminy Peak Mountain Resort. A 'Project Benefits' section lists: 'Brings clean energy saving over 100 area National Grid customers through community solar' and 'Helps Jiminy Peak Resort...'. A small thumbnail image labeled 'PHOTOS OF THIS PROJECT:' is also visible.

nexamp solar energy solutions

Home What We Do Partners Company **Projects** Contact

Home > Projects > Nexamp Peak

Contact Nexamp now

36,000 kWh | 420 cars off the road annually

PHOTOS OF THIS PROJECT:

The Northeast's Largest Community Solar Project

In 2015, we built our first community solar project at Jiminy Peak Mountain Resort. Covering 12 acres near the base of the resort, Nexamp Peak was the largest community solar project in the northeast to date.

Project Stats

Location: Hancock, MA

Project: Jiminy Peak Mountain Resort

Project Benefits

- Brings clean energy saving over 100 area National Grid customers through community solar
- Helps Jiminy Peak Resort...

“ We were thrilled to partner with Nexamp to add solar energy to our mix in such a way that the neighboring community can benefit from the facility too.”

Tyler Fairbank, CEO
Jiminy Peak Mountain Resort

Source: <http://nexamp.com/projects/nexamp-peak>

Serves 100 residents and businesses, offsets 90% of ski resort use

We all pay for solar

Delivery Services Detail

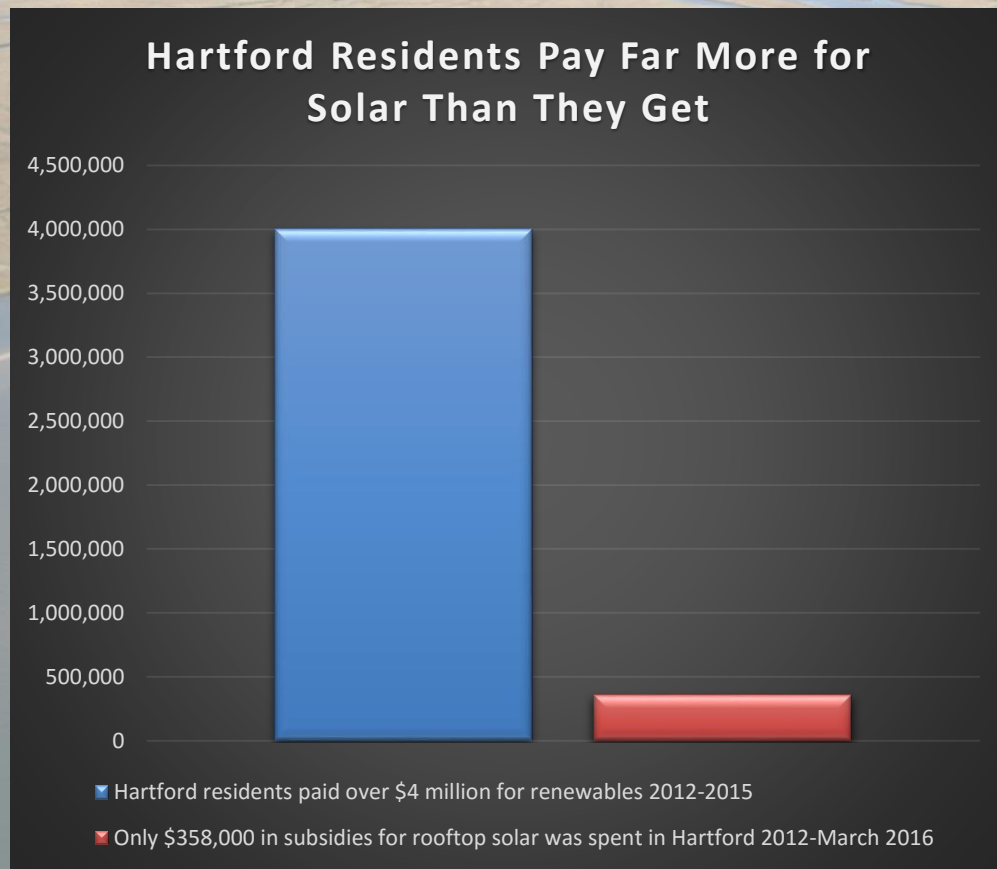
DISTRIBUTION RATE: 001

Transmission Chrg	299.00KWH	x	\$0.025820
Distr Cust Srvc Chrg			
Distr Chrg per KWH	299.00KWH	x	\$0.034670
Revenue Adj Mechanism	299.00KWH	x	\$0.000790
CTA Chrg per KWH	299.00KWH	x	\$0.001160
FMCC Delivery Chrg	299.00KWH	x	\$0.008760
Comb Public Benefit Chrg*	299.00KWH	x	\$0.012750
Distribution Adj Chrg***	299.00KWH	x	\$0.000420

Explanation of your charges

*The Combined Public Benefits Charge represents a combination of three charges formerly known as: Conservation and Load Mgmt Charge, Renewable Energy Investment Charge, and Systems Benefits Charge. This charge also includes the Conservation Adjustment Mechanism approved by the Public Utilities Regulatory Authority in Docket No. 13-11-14.

But some of us get little benefit



Shared solar closes the solar equity gap

Why don't we have shared solar yet?



General Assembly

Raised Bill No. 5412

February Session, 2014

2014

Referred to Committee on

Introduced by:

(ET)

AN ACT CONCERNING SHARED SOLAR

Be it enacted by the Senate and House of Representatives in General Assembly convened:

Section 1. (NEW) (*Effective October 1, 2014*) (a) As used in this section and section 2 of this act:

(1) "Shared clean energy facility" means a Class I renewable energy source, as defined in section 16-1 of the general statutes, that (A) is served by an electric distribution company, as defined in section 16-1 of the general statutes, (B) is within the same electric distribution company service territory as the individual billing meters for subscriptions, (C) has a nameplate capacity rating of three megawatts or less, and (D) has at least two subscribers;

(2) "Shared clean energy facility credit" means a credit equal to the retail cost per kilowatt hour that the subscriber would have otherwise been charged by an electric

- shared solar bill defeated
- Energy and Technology Committee asks CT Academy of Science and Engineering (CASE) to study shared solar

Why don't we have shared solar yet?

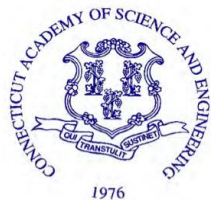
2015

- CASE study supports full shared solar law
- Shared solar bill defeated
- Small pilot passes instead

SHARED CLEAN ENERGY FACILITIES

MARCH 2015

A REPORT BY
THE CONNECTICUT
ACADEMY OF SCIENCE
AND ENGINEERING



Substitute Senate Bill No. 928

Public Act No. 15-113

SHARED CLEAN ENERGY FACILITY PILOT PROGRAM.

House of Representatives in General Assembly convened:

1, 2015) (a) As used in this section:

means a Class I renewable energy source, as defined in section 16-1 of the general statutes, that (A) is served by a utility company, (B) is within the same electric distribution company service territory as the individual electric meter, (C) has a capacity rating of four megawatts or less, and (D) has at least two subscribers;

means an individual electric meter or a set of electric meters, when such meters are combined for billing purposes by a utility company;

has the same meaning as provided in section 16-1 of the general statutes;

means a retail end user of an electric distribution company who (A) has contracted for a subscription, and (B) has incurred the cost of the subscription; all be attributed;

means any for-profit or not-for-profit entity permitted by Connecticut law that (A) owns or operates one or more shared clean energy facilities; and (B) contracts with a third-party entity to build, own or operate one or more shared clean energy facilities; and

Shared Solar Pilot ...

Small:

- 2 MW in UI area
- 4 MW in Eversource area

DEEP:

- Issues RFP by January 1, 2016
- Selects projects
- Reports to Energy Committee January 1, 2018

DELAYED

DELAYED

“Fix” is flawed

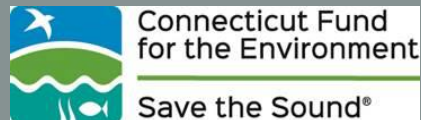
**Public Act 16-116:
delays pilot, utilities only buy power for 20 years**

- **DEEP’s draft plan makes the pilot even worse:**
 - 3 to 12 big projects -- not community
 - More delay -- ends July 2021!
 - Low-mod income set aside – too small
 - No incentive to sign up “the 80%”
 - Could be fuel cells or biomass instead of solar or wind
- **CFE filed detailed comments**
- **Final plan: July 1**

Our goal:

**Full statewide shared
solar -- so EVERYONE
can access clean
energy.**

We all contribute -- we should all benefit



How you can help - 1

Sign up!

<http://www.ctenvironment.org/>

Connecticut Fund for the Environment

Save the Sound®

Search site

Donate

About Us | Lands & Communities | Climate, Air, & Energy | Save the Sound & Clean Water | Legal & Legislative | Newsroom & Resources | Get Involved

Global Warming Solutions Act
Comprehensive Energy Strategy
Transit for Connecticut
Driving Green
Local Clean Energy
Share the Sun
Energy Efficiency
Methane & Natural Gas
Stamford 2030
Environmental Justice

he-sun/c1j63 Share the Sun with CFE!

1/6

How you can help - 2

Tell friends and family about shared solar.

If you want solar but can't put it on your roof, or if you support shared solar, tell us!

I want solar, please!



Shannon

203-787-0646 x122

slaun@ctenvironment.org

David

860-508-0107

ddesiderato@ctenvironment.org

How you can help - 3

**Tell state legislators and Governor Malloy
you support full-scale shared solar**

Ask them: where do you stand?

Contact

Office of the Governor

State Capitol
210 Capitol Avenue
Hartford, CT 06106

Phone: 860-566-4840
Toll-Free: 800-406-1527
TDD: 860-524-7397
Fax: 860-524-7395



The screenshot shows the official website of the Connecticut General Assembly. At the top, there is a blue header with the state seal on the left, the text 'CONNECTICUT GENERAL ASSEMBLY' and 'State Capitol | Hartford, Connecticut | 06106' in the center, and navigation links like 'Quick Bill Search' and 'Translate' on the right. Below the header is a horizontal menu with links for 'Representation', 'Committees', 'Offices', 'Commissions', 'Session List', 'Statutes', 'Bill Info', and 'Associated'. The main content area is titled 'Find Your Legislators' and contains a form with three sections: 'Town' with a dropdown menu labeled 'Please Select First', 'Street Name' with a dropdown menu labeled 'Please Select Second', and 'Number' with a text input field. A blue 'Submit' button is at the bottom of the form.

<http://portal.ct.gov/governor/>

<https://www.cga.ct.gov/asp/menu/cgafindleg.asp>