



MAPping Opportunities for COST Savings and Resilience

Solar + Storage for Affordable Housing

Council of Small Towns
Key Issues Conference
October 19, 2023

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Connecticut Green Bank is the nation's first green bank.

Established in 2011 as a quasi-public agency, the Green Bank uses limited public dollars to attract private capital investment and offers green solutions that help people, businesses and all of Connecticut thrive.

Our mission is to confront climate change by increasing and accelerating investment into Connecticut's green economy to create more resilient, healthier, and equitable communities

COST Energy & Environment Conference (June 8, 2022)

“Top 5” Things to Do

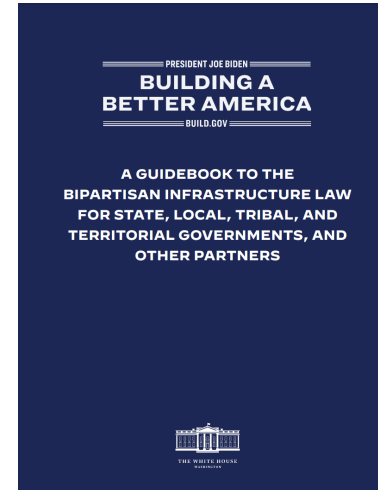


#1a – Target Most Vulnerable



Can we engage your towns on clean energy for affordable housing?

#1b – Coordinate with CTBILT



Collaborate with Commissioner of DRS on Infrastructure Investments and Jobs Act

1a Opportunities Improve in 2023 and Beyond Residential Renewable Energy Solutions (RRES)



2023

	Buy-All Rate (\$/kWh)
Eversource	\$0.2943
United Illuminating	\$0.2943
Low-Income Adder	\$0.0300
Distress Municipality Adder	\$0.0175

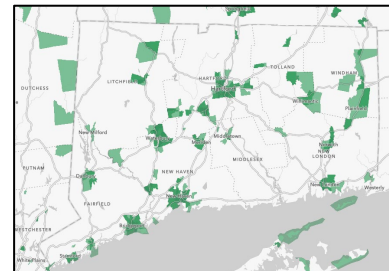
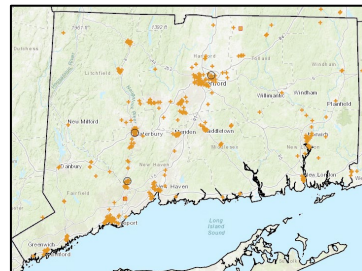
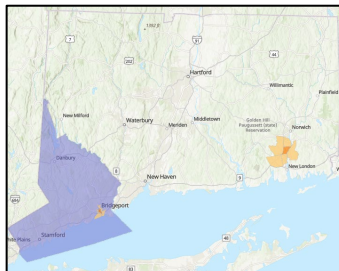
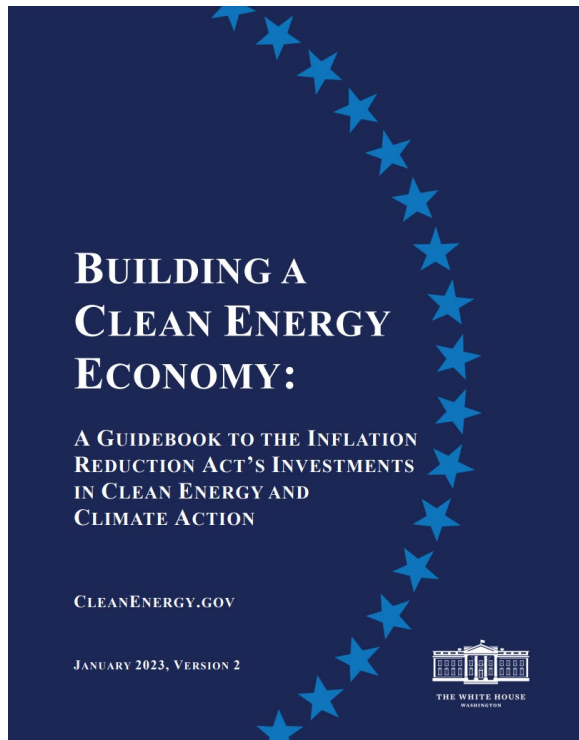
2024 (Proposed)

	Buy-All Rate (\$/kWh)
Eversource	\$0.3189
United Illuminating	\$0.3189
Low-Income Adder	\$0.0500
Distress Municipality Adder	\$0.0275

↑ 8%
↑ 8%
↑ 67%
↑ 57%

Tenants must receive no less than 20% of the on -bill credits
(e.g., \$0.06486/kWh low -income for 2023) through their meter.

1b Opportunities Improve in 2023 and Beyond Inflation Reduction Act of 2022



- **Energy Community** – increase in ITC of additional 10% (i.e., MSA, retired coal -fired power plant, or brownfield)
- **Low - Income Community** – increase in ITC of additional 10 -20% (i.e., for wind or solar, and associated storage) for low -income single family and affordable housing
- **Domestic Content** – increase in ITC of additional 10% (e.g., fuel cells manufactured in Connecticut)

Solar Marketplace

Assistance Program (Solar MAP)

From State and Municipalities to Affordable Housing



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1

**Technical
Assistance**



4

Financial Assistance

Marketplace Assistance Program (MAP)

Opportunity for COST Savings and Resilience for Affordable Housing



Obtain Site
Address and
Details

Review Sites with
Industry Software

Analyze Site
Characteristics

Finalize Project
Opportunity

Discuss Results



Optimal Site Characteristics



Suboptimal Site Characteristics

Site Characteristics:

- Open roof sq. ft. (rooftop)
- Open field acreage (ground)
- Open southern facing parking lot (carport)
- Close to three-phase power

Site Characteristics:

- Four (4) Stories or greater
- Roof obstructions (HVAC Units) and/ or various pitches (roof)
- Wooded, wetlands (ground)
- Old asphalt, various parking line angles (carport)



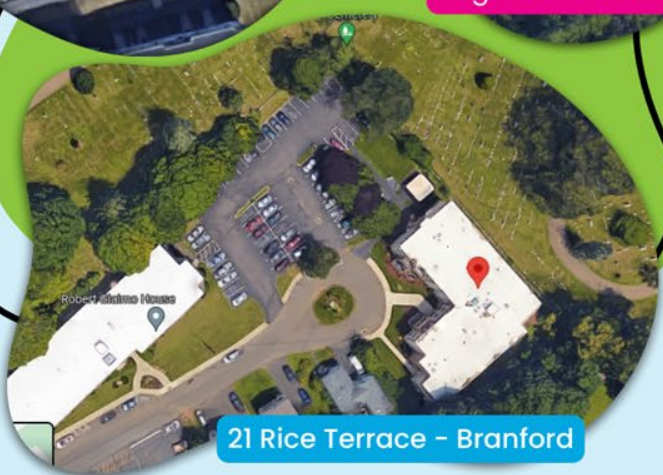
Cornfield Apartments - Ellington



Sage Pond Place - Berlin



21 Rice Terrace - Branford



Optimal Site Characteristics



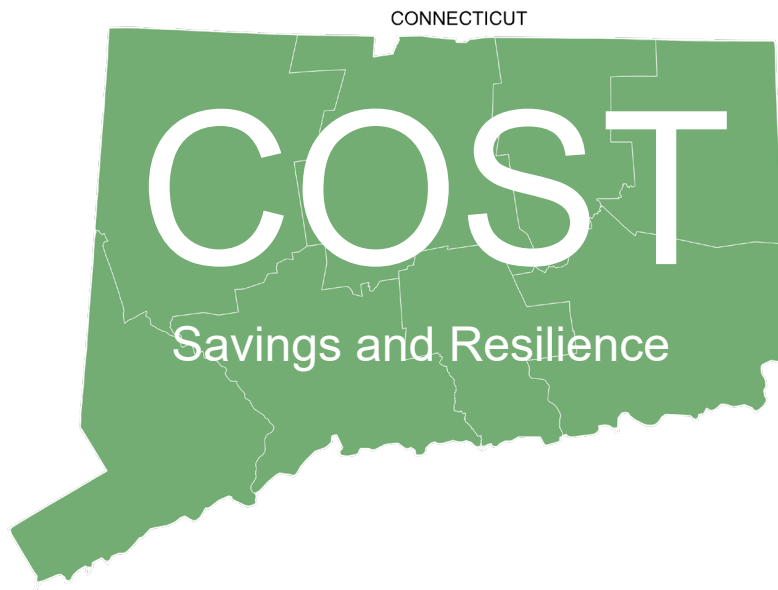
Suboptimal Site Characteristics

Site Report Topics Covered

- Solar Project System Size
- Solar Project Conceptual Design
- Battery Storage System Details (if applicable)
- Financial Proformas (Solar and Battery Storage)
- State and Federal Incentive Overviews
- Timeline and Associated Next Steps



COST Savings and Resilience Affordable Housing Potential Properties and Installed Capacity



- **Towns** – 80% of COST towns have at least one (1) property suitable for solar PV on “affordable housing”
- **Eligible Properties** – of the more than 1,300 PURA-designated “affordable housing” properties in Connecticut, 317 are located in COST towns
- **Solar Potential** – of the 317 “affordable housing” properties in COST towns, 213 of them have potential for 50 -900 kW of solar (i.e., average 130 kW) – total of 30 MW of solar potential (i.e., ~4,200 homes)
- **ITC Adders** – 15 of the sites qualify for the Energy Community adder, and a vast majority of the properties are likely eligible for the Low Income Community adder under IRA

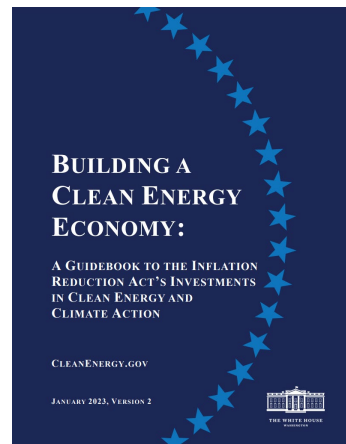
COST Key Issues Conference (October 19, 2023) Solar + Storage for Affordable Housing



#1a – Target Most Vulnerable



#1b – Realize Benefits of IRA



Participate in Solar MAP (+ Storage) to
Increase Savings and Resilience for Affordable Housing

THANK YOU

