



Agenda



- What is a Green Bank what are they conceptually and what is the Connecticut Green Bank
- What are Green Bank Products and Programs how are products structured to attract private investment and what programs can support clean energy deployment
- What are Green Bank Impacts what impact is the Connecticut Green Bank making and how is the green bank model growing



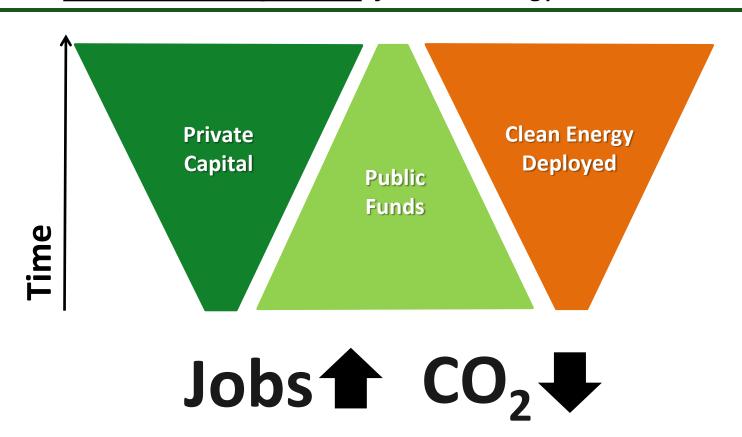
What is a Green Bank?

Green Bank Model



Public-Private Partnerships for Climate Protection

A green bank is a <u>public financing authority</u> that <u>leverages private capital</u> with <u>limited public-purpose dollars</u> to <u>accelerate the growth</u> of clean energy markets



Connecticut Green Bank



1st Green Bank in the United States



...transitioning programs away from governmentfunded grants, rebates, and other subsidies, and towards deploying private capital

...the Green Bank was established in 2011 to develop programs that will *leverage private sector capital to create long-term, sustainable financing for energy efficiency and clean energy to support residential, commercial, and industrial sector implementation of energy efficiency and clean energy measures.*

Connecticut Green Bank About Us



- Quasi-public organization created by PA 11-80 and successor to the Connecticut Clean Energy Fund
- Focus finance clean energy (i.e. renewable energy, energy efficiency, and alternative fuel vehicles and infrastructure)
- Balance Sheet currently about \$110 million in assets
- Support supported by a \$0.001/kWh surcharge on electric ratepayer bills that provides approximately \$27-30 MM a year for investments, RGGI about \$5 MM a year, federal competitive solicitations (i.e. SunShot Initiative) and non-competitive resources (i.e. ARRA-SEP), private capital, etc.

Connecticut Green Bank



Mission and Goals



Support the Governor's and legislature's energy strategy to achieve cleaner, cheaper and more reliable sources of energy while creating jobs and supporting local economic development

Attract and deploy capital to finance the clean energy goals for Connecticut

Develop and implement strategies that bring down the cost of clean energy in order to make it more accessible and affordable to consumers

Reduce reliance on grants, rebates and other subsidies and move towards innovative low-cost financing of clean energy deployment



What are Green Bank Products and Programs?

What are Green Bank Products and Programs



Credit Support

Senior Private Capital

Green Bank
Credit
Enhancement

Project

Co-Investment

Green Bank Capital

Project

Private Capital

Warehousing

Project

1

Green Bank Origination



Private Purchase of Portfolio

CT Solar Loan (Credit Support)



\$5 MM Crowdfund to \$100 MM Private



Connecticut Green Bank

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Digital Federal Credit Union

Solar Industry

Mosaic and Connecticut
Team Up On Crowd Funding
of Residential Solar



Michael Puttre (February 2014)

Mosaic has partnered with Connecticut Green Bank and Sungage Financial to package loans made to homeowners...



Sungage Financial Secures \$100 Million for Solar Loan



Edgar Meza (November 2014)

Following its participating in the CT Green Bank solar loan program, the Boston startup is aiming to expand residential solar loans on the East Coast.

Monthly Loan Payment

ement

Loan Agreement

Customer

CT Solar Lease (Co-Investment)



\$60 Million PPP

Connecticut Green Bank

Sub Debt
Equity
Loan Loss Reserve
PBI (incentive)
Developer services

Debt

Debt Syndicate led by First Niagara







greentechmedia:

Connecticut's Green Bank: A Model for Public-Private Renewables Partnerships?

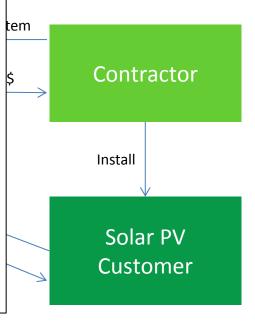


Fostering competition among installers and goodwill among taxpayers

Breaking Energy, Conway Irwin July 8, 2013

Connecticut's Clean Energy Finance and Investment Authority (CEFIA) -- the state's Green Bank, and the first of its kind in the country -- has established a new solar financing system in a bid to expand capacity in the state. CT Solar Lease II seeks to avoid some of the most frequently cited criticisms of renewable energy finance, in that it uses less and recovers more taxpayers' funds, as well as fosters market competition.

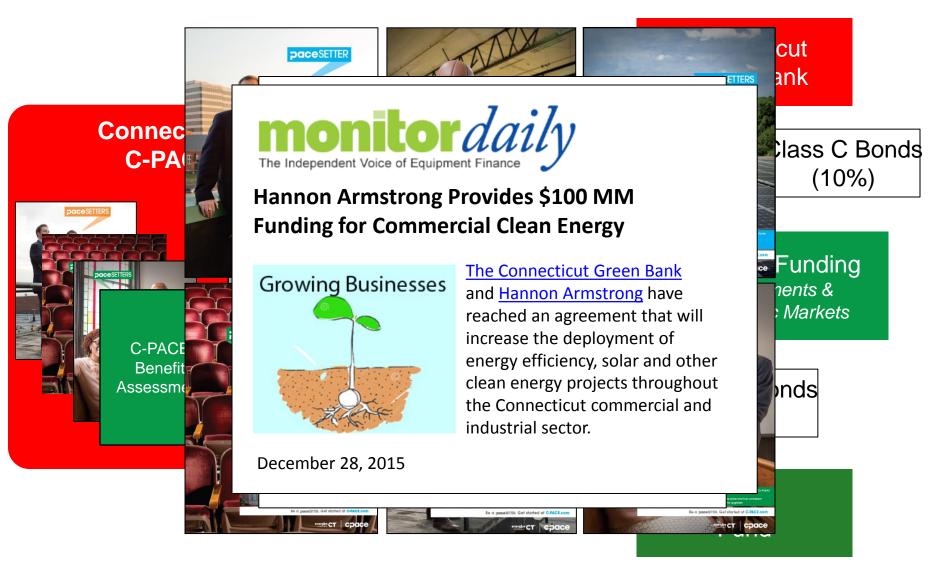
Lease provides local in important sales tool, stomers benefit from le, no-money-down and peace of mind.



C-PACE (Warehouse)



\$40 MM Warehouse to \$100 MM PPP





What are Green Bank Results?

Connecticut Green Bank



Accelerate Clean Energy Deployment

	FY 2000- FY 2011 (CCEF)	FY 2012- FY 2015 (CGB) ¹	FY 2016 Targets (CGB) ²
Model	Subsidy	Financing	Financing
Years	11.00	4.00	1.00
Energy (MW)	43.1	134.5	110.0
Investment (\$MM)	\$349.2	\$663.2	\$670.0
Leverage Ratio	1:1	3:1	10:1
% of Funds as Loans	10	56	80

Deploying <u>more</u> clean energy at a <u>faster</u> pace while using ratepayer-taxpayer resources <u>responsibly</u>

REFERENCES

^{1.} Comprehensive Annual Financial Report for FY 2015 for approved, closed, and completed transactions

^{2.} Board approved targets for FY 2016

Connecticut Green Bank An NRDC and CGC Observation



Based on Connecticut and its market size, growth rate, and public-private leverage ratio, we estimate that a Green Bank in every state in America would yield \$200 billion in national annual investment within 5 years, with 90% of the funds coming from private sources and all taxpayer contributions returned over 10 to 20 years.





Green Bank Movement

United States Trends







2014

To lead the green bank movement by accelerating private investment in clean energy deployment for Connecticut to achieve economic prosperity, create jobs, promote energy security and address climate change.



2015



2011



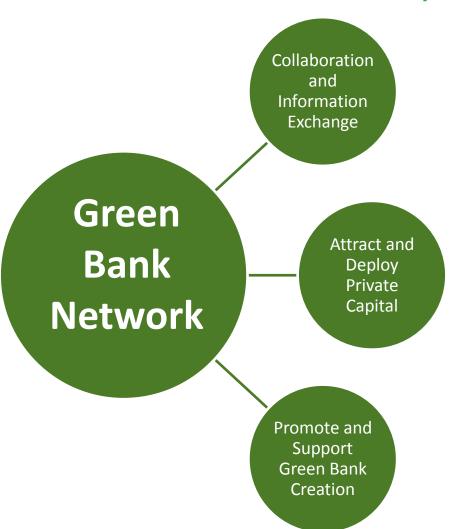
2014



Green Bank Network



Public-Private Partnerships Worldwide

















Japanese Green Fund



Thank You

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