

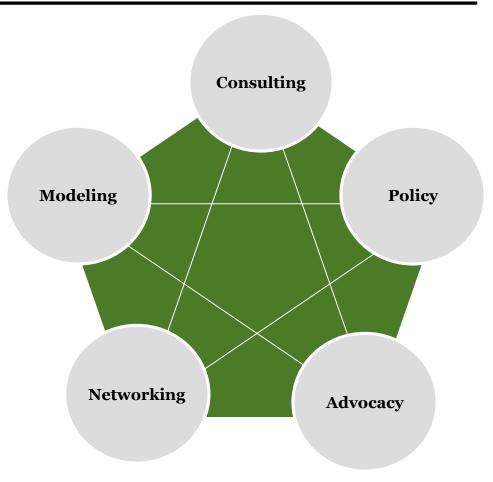
# **Growing Clean Energy Markets Quickly with Green Bank/EIP Financing & Market Development**

Jeffrey Schub, Executive Director, CGC CDFA-DOE Energy Investment Partnership Webinar Series February 23, 2016

# CGC provides expert support and advice to states exploring Green Bank creation

**CGC's mission** is to use state finance, regulatory and legal power to accelerate move to clean power platform.

- Nonprofit 501(c)(3) organization
- CGC's leaders have been driving Green Bank movement since '09
- Based in Washington, DC
- Receives pro bono support from Latham & Watkins LLP & Covington & Burling LLP



Many large projects – fossil & renewable – can access financing, but not so for distributed projects

## **Centralized Projects**

- Utility-scale
- Power directly to grid
- Strong credit
- Traditional project finance
- Relatively easy to finance

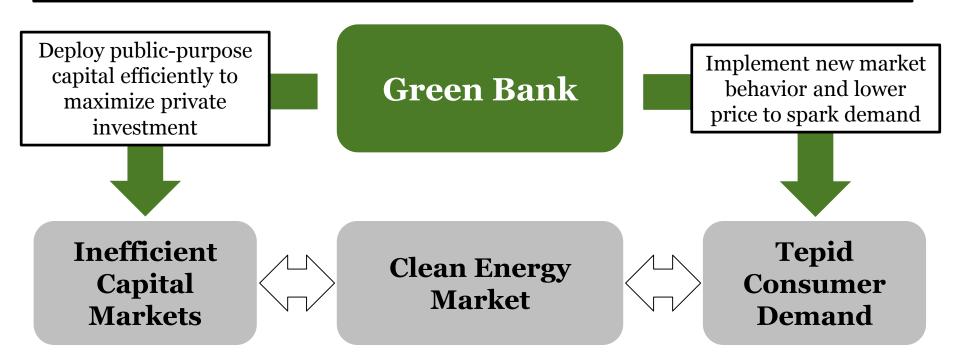
### **Distributed Projects**

- Smaller scale
- Scattered locations
- On-site energy use
- Varying credits
- Range of structures and approaches to finance

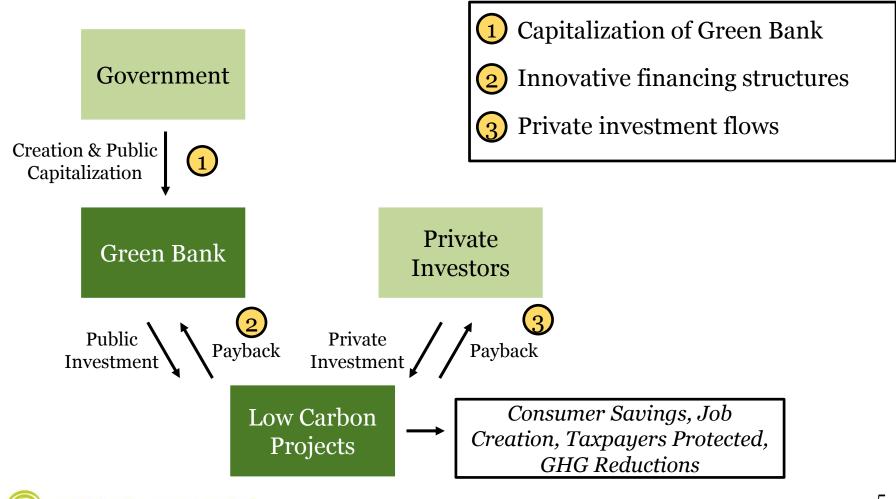


Green Banks (EIPs) fill the financing gap and draw in the capital needed to make clean energy markets grow

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



### Green Bank is a publicly capitalized institution that channels public and private investment



oalition for green capital

Green Bank plays dual role of increasing the flow of capital and building market to increase demand

## **Financing Projects**

- Leverage public dollars
- Stimulate private investment
- Fill market gaps

## Generating Demand

- Turn-key solutions
- Support full market ecosystem
- Minimize customer confusion

Range of financial tools, applied to prioritized markets, through innovative structures

### Green Bank Products & Services

- Direct Debt
- Wholesale Debt
- Subordinated Debt
- Loan Loss Reserve
- Warehousing
- Securitization
- Standardization
- Data Collection

#### Financing Mechanisms

- On-Bill
- PACE
- ESA

Customer Acquisition

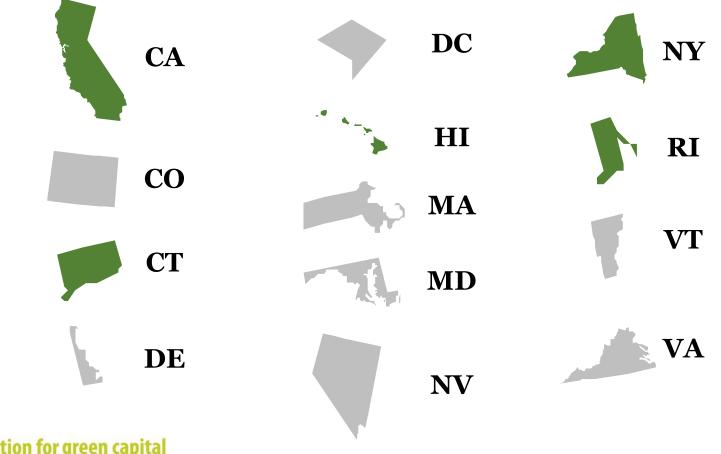
- Solarize
- Big-data
- Targeted

#### Markets

- Residential EE
- C&I EE
- Multifamily & LI EE
- MUSH EE
- Distributed Generation
- Community Solar
- Energy Storage
- EV's and Charging

Green Banks are quickly spreading across U.S.

### Green Banks Operating Or Under Development/Consideration



# Each government takes a different path to Green Bank/EIP creation

	Connecticut	New York
Objective	Create a dedicated institution that will deploy cheap and clean energy by financing mature clean energy technologies	Create a dedicated finance institution to animate private capital markets and increase total investment in clean energy
Conditions	<ul> <li>Existing quasi-public grant-making entity with mixed mission</li> <li>Large annual system benefit charge collected from ratepayers.</li> <li>Newly elected governor sought to reform state energy apparatus</li> <li>Bipartisan support for action</li> </ul>	<ul> <li>Large existing state energy agency already had legal authority to provide financing</li> <li>Large annual system benefit charge collected from ratepayers</li> <li>Strong Governor support from the outset</li> <li>Regulator controlled money</li> <li>Unclear legislative path</li> </ul>
Solution	<u>Repurpose existing entity</u> into green bank through <u>legislation</u> , funded with a portion of the existing system benefit charges and RGGI proceeds	Create <u>new green bank division</u> of existing state energy agency and <u>petition regulator</u> to repurpose system benefit charge to capitalize the green bank

### ...More examples of Green Bank creation

	Rhode Island	Montgomery County, MD
Objective	Spark economic growth, create jobs and lower energy costs by deploying clean energy with financing mechanisms	Create a dedicated clean energy finance institution to reduce emissions, lower energy costs and help meet County environmental goals
Conditions	<ul> <li>Newly-elected Governor campaigned on platform for green bank</li> <li>Minimal desire to create new institution</li> <li>Existing system benefit charge not a viable pool of funds</li> <li>Governor sought quick action</li> </ul>	<ul> <li>No desire to create new government institution</li> <li>Quasi-public instrumentality would require state approval</li> <li>County's electric utility in the midst of a large merger</li> <li>No pool of existing public funds</li> </ul>
Solution	Through annual <u>budget bill</u> , expanded <u>existing quasi-public</u> water financing authority to become state infrastructure bank. Modest start-up funding paired with existing <u>bonding authority</u> .	Legislation directing an <u>independent non-</u> <u>profit be incorporated</u> to receive County's designation as the Green Bank. Funded by <u>utility-merger settlement</u> payment, negotiated by County with utility to secure County merger approval.

### Lessons Learned – Green Bank Creation

- **Be Opportunistic** take creative advantage of openings
- Use What You Have often existing tools can be used
- Communicate Economic Benefits
  - Lower energy costs
  - Jobs & economic growth
  - Efficient use of public capital
  - Private investment

### Cheap, Clean & Resilient Always Wins

- Market growth is incompatible with increased energy costs, even if it is cleaner; demand will also be low for something more expensive
- Tell the story of how public-private financing reduces energy costs

### Experiment, Measure & Adjust

– It is ok to fail, learn from it and try something different; be flexible

### • Use the Whole Tool Box

 Credit enhancements, loans, leases, REC purchasing, contractor training, issue bonds, warehousing, technical assistance – the market needs all of this

### Target Specific Markets

- Hard to make one solution work for all markets
- Design Products For Ease of Use
  - Easy to explain to contractors, easy for consumers to understand
- CANNOT JUST OFFER CAPITAL

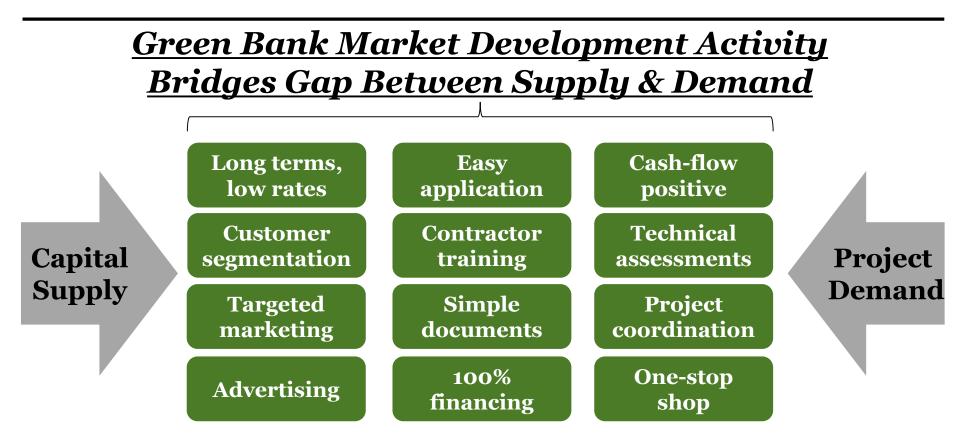
Green Bank doesn't just create financing products with private sector – it delivers products to customers

### Financing Products NOT Useful to Customers

- Residential EE loan at 10% interest rate and 4 year term
- Commercial building upgrade loan with max loan size of \$10,000
- Residential solar financing product with no outreach to contractors for channel marketing
- Multifamily EE financing with 1 year underwriting process
- LMI loan product that requires 680 FICO SCORE
- Whole-home upgrade with PV & EE with no savings calculation

Simply making capital available is not effective – it must be packaged attractively, marketed, and sold to create demand.

Green Banks help bridge the long gap between capital supply and demand for clean energy



All of this activity must occur to reduce barriers to demand – some can be done by green bank, some done by private partners

Technology, cost and policy trends all point to EIPs as key lever for clean energy market expansion

- Public dollars are limited
  - Grants are expensive
  - Cannot scale
- Cost of clean energy technology is falling
  - Solar now cheaper than grid in 20 states, 42 states by 2020
- State & local governments taking the lead
  - Energy markets are local, can meet customers where they are
- Federal government supporting where possible
  - Potential funding from DOE LPO, USDA RUS & EPA SRF

### Adds up to surging government demand for EIP know-how & creation



## **Thank You & Appendix**

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