



# Montgomery County **GreenBank**

Your partner for clean energy

---

Presentation to Government Finance Officer Association

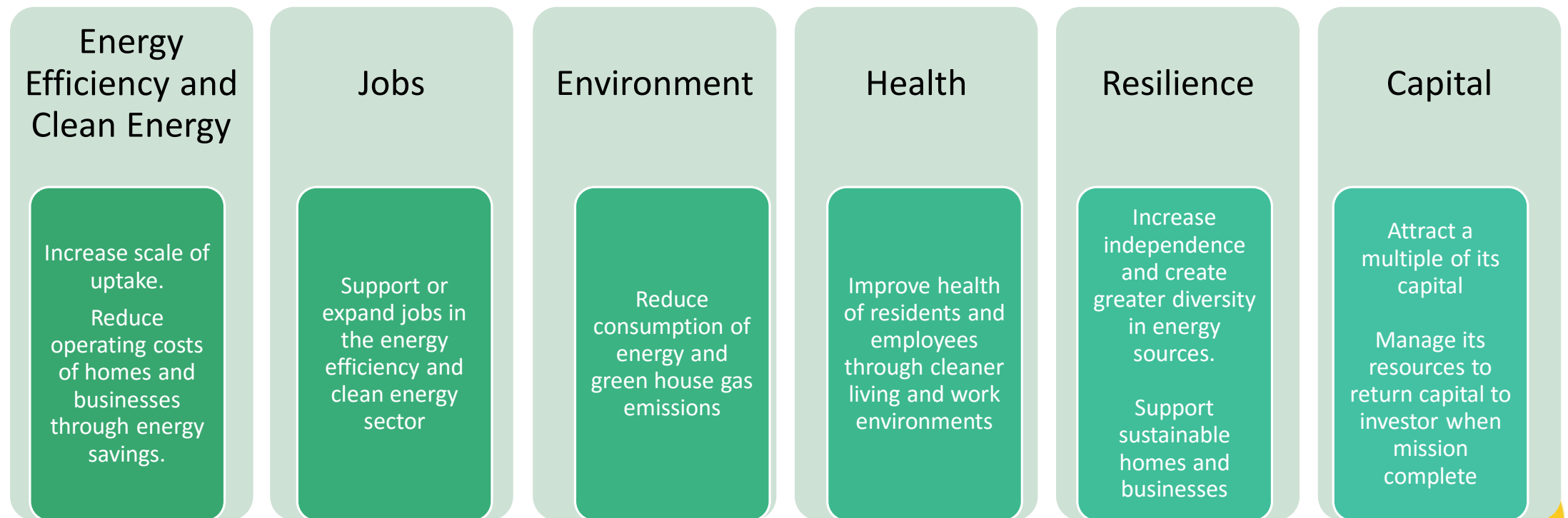
Tom Deyo, CEO

JANUARY 19, 2018



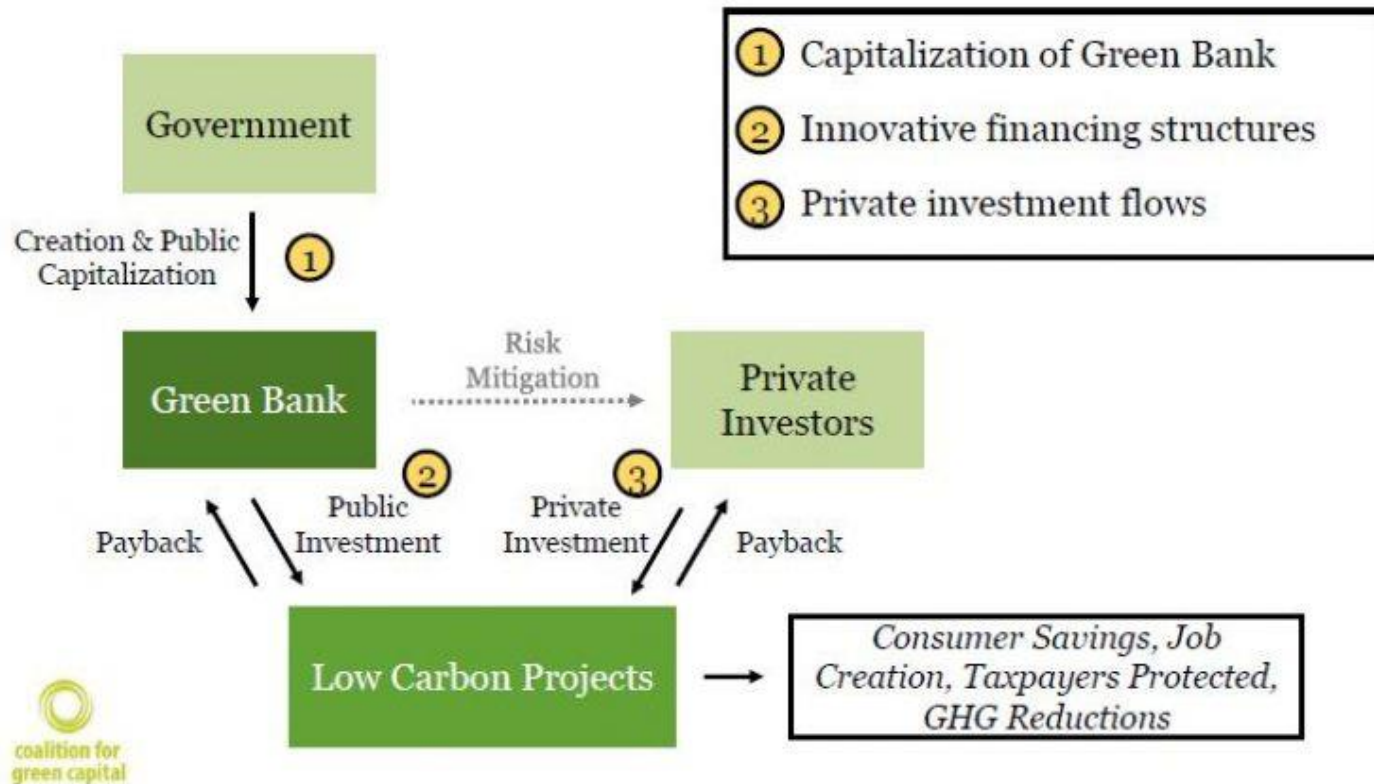
# What is the Mission for a Green Bank?

**Clean Energy Finance Banks - Close gaps in financing markets for energy efficiency and clean energy using market-oriented approaches in partnership with private investors**



# Basic Green Bank Model

*Create New Public Institution to Channel Public & Private Investment*



## What are different structures for a Green Bank?

### Structures

- Government
- Quasi-Government
- Government Sponsored
- Independent Non-Profit



# What are Green Bank Fundamentals?

Not a Bank, a **Fund**.

**Create new financing markets in energy efficiency and renewables** where the market IS NOT already functioning efficiently or cost effective

**Build lending products and take risks to prove a theorem to lenders** – that energy efficiency and renewable energy financing is not risky and can make returns commensurate with other product and that there is a market for it

**Co-invest with lenders and leverage their capital** by working with lenders to achieve scale of 5, 10, or 20 times its investment.

**Recapture capital to re-use or return** to the government investors with self-sustainability as a goal

**Use partners to get their work done**

**Serve all spectrums of demographics**

**Serve as a resource to help connect the dots** across energy efficiency and renewable opportunities and demonstrate leverage of resources



# Lot of Momentum for Green Banks

|                    | Green Banks in Operations   | Green Banks in Development or Under Consideration   |
|--------------------|---|---|
| <b>National</b>    | United Kingdom Green Infrastructure Bank<br>Japan Green Fund<br>Australia Clean Energy Future Corp.<br>Malaysia Green Technology Finance Scheme   | India   |
| <b>State/Local</b> | New York Green Bank<br>Connecticut Green Bank<br>Michigan Saves<br>Rhode Island Infrastructure Bank<br>California CLEEN Center<br>Hawaii Green Infrastructure Authority<br><a href="#">Montgomery County Green Bank</a> | Ontario, Canada<br>Washington, DC<br>Baltimore<br>Nevada<br>Colorado<br>Missouri<br>Pennsylvania<br>Vermont |

**Note**

Similar institutions such as the New York City Energy Efficiency Corporation, and some CDFIs are also closely aligned with “green bank” activities.



# Montgomery County Green Bank

*Your Partner for Clean Energy*

---

- Publicly-chartered by Montgomery County, MD in June 2015
- Designated as the County's Green Bank in July 2016
- Independent, 501c3 non-profit corporation
- 11 members on the Board of Directors (2 presently from Montgomery County government)
- Set to receive \$14 million in funding from the County from the Pepco-Exelon merger settlement agreement
- Supports county **greenhouse gas reduction goals, jobs, business strength, and equity**



# MCGB Capital Leverage Strategy

---

**Make investments** of publicly-chartered capital—leverage, not grant-focused

**Attract** lender and other (donor, impact) **capital** to scale work

**Grow a private sector market** of clean energy lending and investment

- De-risk products - stand behind lenders; build understanding of relationship between energy savings and risk mitigation
- Lenders learn and later lend without credit enhancement--provide market capital
- Overcome gaps/barriers unique to sectors—commercial, low-mod, affordable multi-family
- MCGB recaptures funds and/or securitizes and moves on to new opportunities

**Generate revenue** growth to sustain MCGB

**Preserve public capital**; Ultimate success = market transformation--“no need” for MCGB

Interim success= **catalytic impact and replicability**



# MCGB Key Performance Indicators

## Community Benefit

- Households and businesses supported and energy savings achieved, including low-moderate income

## Economic Benefit

- Jobs supported

## Scalability

- Private sector investment leveraged

## Transformation

- Lenders participating

## Environment

- Green house gas reductions

## Sustainability

- Generated revenues to offset expenses





# MCGB Example – A Need and a Solution

## Commercial Loan for Energy Efficiency and Renewables (CLEER)

---

### Need

- Commercial Contractors identified a gap in available and affordable financing for energy efficiency projects between \$25,000 and \$250,000
- Pepco had a program but it did not offer strong incentives for larger projects
- Lender products were not tailored to this scope of work

### Response

- MCGB could help increase lender interest by reducing risk
- MCGB could help bring greater value in underwriting and price to borrowers
- MCGB could emphasize distressed communities

### Outcomes

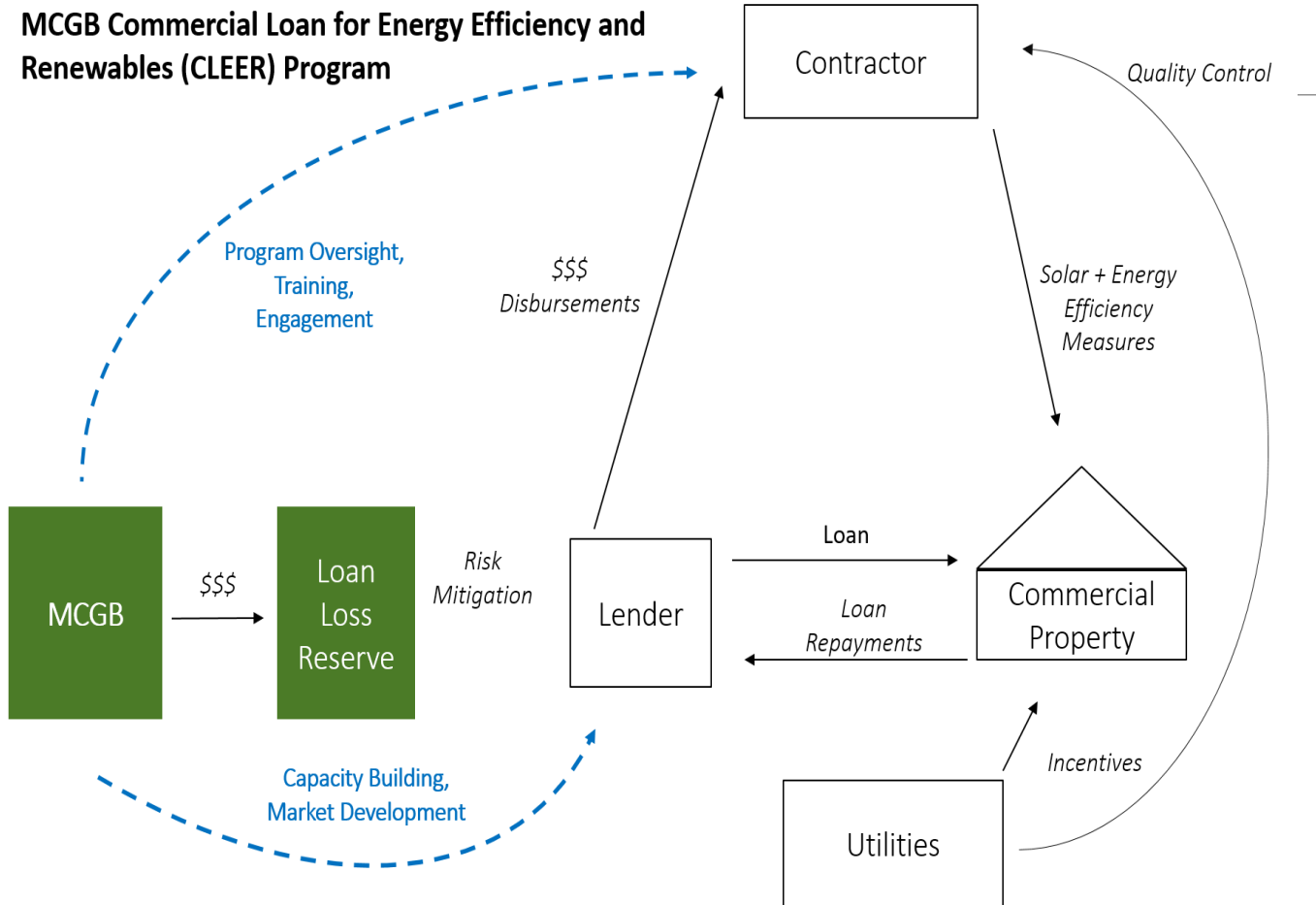
- Improved environment, economy, and employee health = lower green house gas emissions; more jobs and sustainable businesses; more comfort and healthy environments for employees across spectrum of businesses
- Greater private sector scale - Lenders learn lending on these scopes is better than normal
- Sustainability - MCGB obtains a return for its investment that supports operations



# CLEER – Partnering to Deliver

Simple structure:

- MCGB stands behind lender for losses
- MCGB authorizes contractors for program
- Lenders make loans on specific energy efficiency and renewable scopes of work
- Borrowers approved on credit; but savings support payments
- MCGB provides oversight



Loans: 100% financing; up to 12 years; lower rates; not secured to property



# MCGB Investment and Return

---

## Investment

- Loan Loss Reserve Pool to support up to 80% of lender losses
- Maximum exposure 5% of lender's portfolio
- On MCGB Balance Sheet as a reserve
- MI Saves example of low losses

## Returns

- MCGB fee that covers: Contractor use; lender guarantee
- Interest on LLR on MCGB balance sheet

## Principal Recovery

- Product with defined origination period
- LLR recovered if not used



# Approach Fits Impact Investing

---

- Focuses on social and environmental missions
- Catalyzes new markets or opportunities
- Leverages market investors by assuming a perceived higher risk position to blend with market
- Creates an investment with a return structure
- Uses an outcomes based approach for measurement
- Establishes fund-level investing
- Provides opportunity for complementary impact grants—Technical Assistance, M&V, Proof of Concept



# MCGB Investment Products Under Development

---

Resilience

Energy

Health

Community

|  |  |
|--|--|
| <b>Commercial Loan for Energy Efficiency and Renewables</b><br>small / medium businesses<br>distressed communities | <b>Residential Energy Efficiency and Renewables</b><br>homeowners throughout county<br>focus on low and moderate income households |
| <b>Affordable Rental</b><br>low and moderate income communities  | <b>Solar and community solar</b><br>Supports market and low and moderate income communities  |



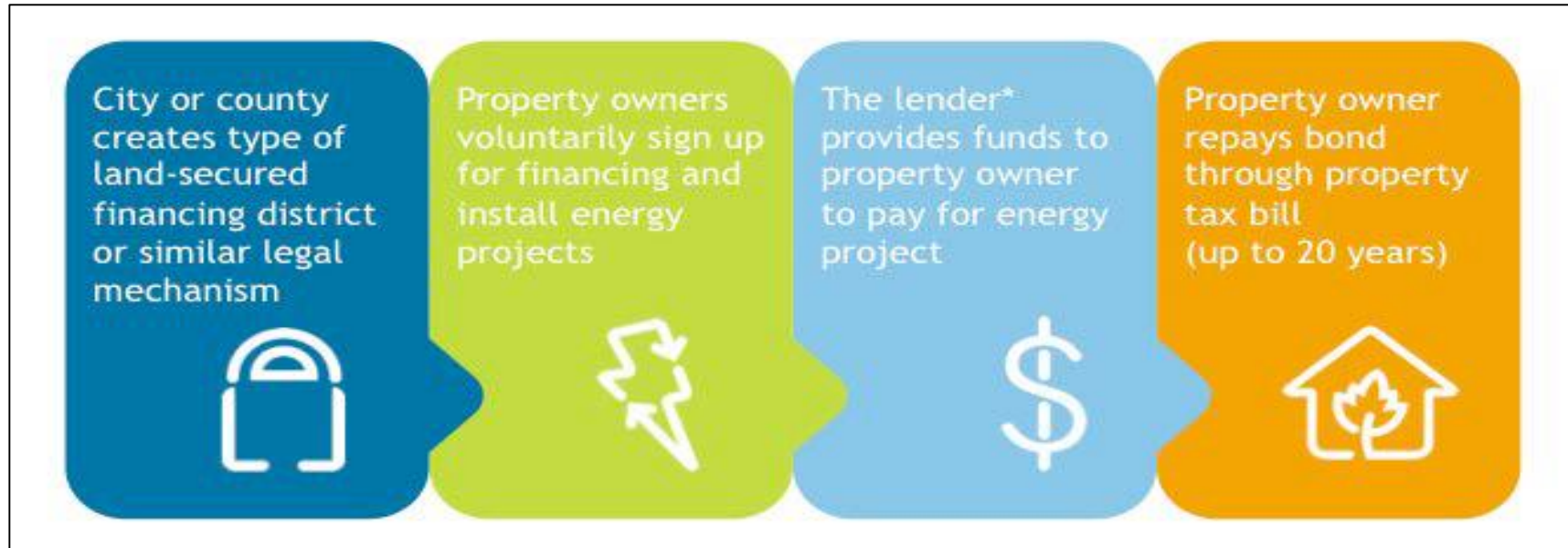
# Sample of Other Green Bank Products

---

- **Connecticut Green Bank** – Over \$1 billion total Investment since 2011
  - Commercial Property Assessed Clean Energy (C-PACE)
  - Residential EE and Solar for Low Moderate Income Households – Leasing and Buying
  - Affordable Multifamily - Pre-development and project financing
- **New York Green Bank** – Over \$400 million since 2015
  - Energy Efficiency and Renewable Energy Transactions
- **Michigan Saves** – Over \$80 million in project financing since 2009
  - Commercial Loan for Energy Efficiency
  - Residential Loan for Energy Efficiency
- **Climate Access Fund** (in formation)
  - Community Solar



# Property Assessed Clean Energy (PACE)



- Property assessment stays with property; transfers with sale
- Can reach 100% financing for projects
- Potential for positive cash flow to property owner with 20 year term
- Lower cost financing; generally need to be sizeable to defray costs of loan



# Challenges For Standing up a Green Bank

## Capital

Key to effort. Best source offers few requirements

## Infrastructure

Emerging sector with many operational structures. But sharing is helping to create efficiencies

## Sustainability

Achieving returns that can support operations. Takes time to build revenue streams, especially when taking risk positions at less than risk-based returns. Need operational subsidies for at least 3 years

## Market Assumptions

Presenting as an investor when market looking for subsidy

## Models

Early in green bank movement offers models for replication but must know models are not long-time tested. BUT, emerging network is a freely sharing one





# Potential Outlook as Investing Tool for Sustainable Financing

---

- ❑ **Excitement** - More states and localities investigating
- ❑ **Alignment** - Keeps off government books yet supports government goals
- ❑ **Scale** - Means to achieve repeating results versus one time results of rebate programs
- ❑ **Independent** - Operates more fluidly in market to work more easily with private investors
- ❑ **Flexible** - Can take risks with less than market return on risk to stimulate markets
- ❑ **Collective** - Can leverage experience of other Green Banks and possibly gain collective leverage as a network

## Why Not Try One in Your Jurisdiction?

