

CDFA-Bricker Webinar Series: Green Financing 101

Welcome

The Broadcast will begin at 2:00 PM (Eastern)

Thank you for joining the conversation

today. Send us

your questions

and comments!



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CDFA-Bricker Webinar Series: Green Financing 101



Ariel Miller

Director, Research & Technical Assistance Council of Development Finance Agencies

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Moderator



Caleb Bell

Partner Bricker & Eckler LLP

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February 1, 2022

John Caleb Bell

Partner

Bricker & Eckler



Bricker & Eckler

2022 CDFA-Bricker Webinar Series





- Green Financing 101
- Organizing PACE Programs
- PACE and Traditional Lending Institutions
- Solar Projects: Power Siting and Tax Abatements
- Democratization of Power: Power Purchase Agreements and Municipal Utilities

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CDFA-Bricker Webinar Series: Green Financing 101

Panelists



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Kerry O'Neill

CEO Inclusive Prosperity Capital, Inc.



Gwen Yamamoto Lau

Executive Director Hawaii Green Infrastructure Authority

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Abe Wapner

Program Director Coalition for Green Capital

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Green Financing 101

February 2022

CGC is leading expert on green bank model, working for decade to drive clean energy investment





- CGC, a non-profit, partners with governments, NGOs and market actors to create green banks that scale clean energy investment
- CGC delivers on-the-ground technical expertise to design, launch and operate green banks
- Helped design & create multiple green banks, which have catalyzed over \$5 billion in clean energy investment
- CEO Reed Hundt, former chairman of U.S. FCC
- Supported by major global foundations



- What is a Green Bank?
- Green Bank Products and Partners
- Capitalization and the Federal Opportunity
- Green Bank Creation Strategies



The green bank movement began with the Waxman-Markey legislation to increase clean energy investment

- The term "green bank" emerged in 2009 in the context of the Waxman-Markey federal cap-and-trade legislation.
- Key concepts introduced in the legislation defined the purpose of a green bank as:
 - Leveraging private financing to increase deployment of capital to clean energy/energy efficiency projects.
 - Financing projects in the form of loans, loan guarantees, debt, and other forms of support.
 - Teaching the market by creating consistent and transparent underwriting standards, contract terms, measurement protocols and performance data.
 - Supporting state and national objectives by increasing overall financing for qualified clean energy and energy efficiency projects and achieving energy independence from foreign energy sources.
 - Supporting economic objectives by creating jobs through the construction and operation of clean energy and energy efficiency projects, and by fostering long-term domestic manufacturing capacity in the clean energy and energy efficiency industries.



What is a Green Bank?

A green bank uses public capital to mobilize more private investment into underserved green and resilient financing markets to fill market gaps. Green banks have the ultimate goal of enabling private capital partners to enter clean energy markets at scale without green bank assistance.

Since 2009, green banks have refined their mission and approach to match state and local needs

- In the wake of the failure of federal climate legislation in 2010, green bank activity shifted to the state and local level.
- As they have developed over the past decade, state and local green banks modified the concepts first introduced in 2009 to fit their market, and policy goals, with the capital available.
- Within this diversity, some core features of green banks are still apparent. In CGC's view, core features of green banks are:
 - A focus on clean energy: While green banks may have secondary goals, a primary goal of each is the rapid deployment of clean energy assets and climate change mitigation.
 - **Method**: Green banks primarily pursue their missions with financing tools.
 - Institutional character: Green banks are distinct from typical clean energy financing programs. Institutions do not have an expiration date.
 - **Mission-driven**: While using the tools of finance, green banks focus on the achievement of their mission over profit maximization.



How are green banks different from clean energy financing programs? They are long-standing and adaptable

Characteristics	Financing Program	Financing Institution
Product development	Products in a program are defined upfront and remain constant.	Products in an institution are defined over time and shift with market demand
Underwriting terms	Programs use standardized underwriting terms.	Institutions' underwriting terms can be responsive to individual transactions.
Definition of success	Program success is defined based on program reach.	Institutional success is defined based on overall market growth (across technologies and market segments).
Use of capital	Programs seek to deploy allocated capital.	Institutions seek to grow capital.
Duration	Programs are time-limited based on capital available and capital deployed.	Institutions are enduring with no time limit or expiration date.

There are currently 22 green banks spread across 16 states (plus Washington, DC), with more in progress



Green banks have mobilized over \$7 billion in investment, with majority coming from the private sector



Total Investment Caused	\$7.0 b
Total Green Bank Investment	\$1.9 b
Total Private Co-investment	\$5.1 b
Mobilization Ratio (Overall Project Investment/Green Bank Investment)	3.7

Coalition for

Green Capital

- Despite challenges during the COVID pandemic, demand for green bank services have increased through 2020, tracking the expansion of new green banks.
- This surge in demand is reflected in the fact that green banks caused a record \$1.64 billion in total investment in 2020.
 This is due to an increase in the number of green banks, and increased investment flows with them.
- 2016 brought with it a fear of tax credits expiring, which decreased some investment in 2017.
- The dip in investment in 2017-2018 was also due to the uncertainty created by the fiscal crisis in Connecticut, leading to the Connecticut Green Banks' balance sheet being reclaimed for other state budget allocations. (The green bank had planned for a certain amount of budget allocations which never materialized).

Source: Green bank total annual investment + private leveraged investment in GB projects for Consortium members over the last decade

Green bank investment has historically focused on solar and energy efficiency



GREEN BANK INVESTMENT ACROSS \$675M OF

Coalition for Green Capital Source: The American Green Bank Consortium performed an analysis of US Green Bank investment across \$675m of publicly profiled projects made available through the green banks themselves. This capital includes green bank funds including leverage. Further information in the Consortium Annual Report, 2020 Green banks measure impact differently, but historically focused on GHG reductions and private leverage

Green Bank	Key Metrics	
Connecticut Green Bank	Capital multiplier, greenhouse gas reductions, energy saving, economic development, health impacts	 Green banks measur impact in different ways, depending on their primary and
Montgomery County Green Bank	Capital multiplier, greenhouse gas reductions, economic development, community benefits	 Most common impa metrics include
NYCEEC	Capital multiplier, greenhouse gas reductions, energy savings, economic development, affordable housing	 financial and environmental measurements. While some green
NY Green Bank	Capital multiplier, greenhouse gas reductions, energy savings, energy generation	banks consider economic development a secondary goal, few
The Atmospheric Fund*	Greenhouse gas reductions, environmental impacts	use it as the primary metric guidance investment decisions



20

* The Atmospheric Fund is located in Toronto Source: C40 Cities Establishing a City Green Bank report, 2021

Green Bank Trend: Environmental Justice & Equity Green banks increasingly emphasizing equity outcomes

Select Green Bank Mission Statements (2021)









Our mission is to confront climate change and **provide all of society** a healthier and more prosperous future by increasing and accelerating the flow of private capital into markets that energize the green economy.

Energy efficiency and clean energy financing for buildings to achieve scale and **be accessible to all.**

To **rebuild and empower underserved communities** by providing access to affordable and innovative financing for sustainable property improvements...We strive to **create positive social, economic, and environmental impacts** by helping people improve the health, safety, and quality of life in their homes while reducing operating costs and greenhouse gas emissions.

We invest in clean energy and resilience in partnership with local initiatives and organizations to provide **energy security, climate justice, and economic growth**.

Green Bank Trend: Environmental Justice & Equity

Focus on equity is driving new types of transactions at existing green banks

Example: NY Green Bank

- In its '21-'22 Annual Report, NY Green Bank announced that it has "begun to focus on other areas experiencing financing barriers," with special reference to financing sustainable infrastructure in "Disadvantaged Communities."
- In March 2021, NY Green Bank provided a \$500,000 subordinated, multi-draw construction-to-term facility to Workforce Housing Group, who will construct solar installations on 18 affordable housing buildings in Brooklyn, NY that will benefit low- and moderate-income New Yorkers and their communities. The NY Green Bank is providing a construction loan for installation, and the bill savings from the solar installation will pay for free high speed wi-fi for residents. This transaction is part of NY Green Bank's commitment to deploy \$150 million in affordable housing projects by 2025.
- This transaction develops a scalable, replicable financing structure that capital providers can use to (i) underwrite renewable energy installation at affordable housing properties and (ii) develop a track record for impact-oriented institutional investment in clean energy. NY Green Bank's participation in this transaction should help demonstrate the feasibility and attractiveness of such investment opportunities and will ultimately help stimulate greater amounts of private sector lending in this market segment.





Solar panels will be installed on 18 buildings and the savings will pay for WiFi for 240 apartments across Brooklyn. Renderings via Helioscope Solar Designs.



Why are green banks necessary? Business and capital barriers to market penetration of proven technologies



Green banks knock down barriers for faster and cheaper private market growth with equitable deployment

Finance Strategies Market Creation Strategies • Debt to make project work for investors & Standardization of products to enable consumers (lower rates, longer terms) speed, aggregation and securitization Alternative underwriting criteria to address • Act as first mover to spark deals that households with limited credit history require collective action Credit enhancements to mitigate risk and Partner with utilities to use non-debt based induce private investment financing structures to not overburden households with more debt Standardize, aggregate & warehouse small projects to access capital markets Partner with businesses to create and train massive new sales and installation Predevelopment and development capital workforce to lower cost and increase speed of project Employ innovative structures like C-PACE construction and on-bill financing products to expand Directly finance first-of-kind transactions to access lead by example



<u>Underlined Strategies Directly Address</u> <u>Frontline, LMI Communities and EJ Needs</u>

Common green bank products

	Product Type	Definition	Green Bank Market Outcome	
	Credit enhancement	A credit enhancement is anything that improves the chances that financing will be repaid. (e.g. a loan loss reserve)	Encourages lenders and investors to put money into unfamiliar markets, products, or customer segments.	
	Aggregation & securitization	Aggregation is a strategy used to bundle small- and medium-sized individual projects to a sufficient size so that the task of evaluating the transaction and documenting the arrangements can be cost effective. Securitization allows cash flows (e.g. solar leases) to be transformed into a standardized, tradable asset.	Individual small- and medium-sized projects can be complex to underwrite and originate, and the cost of those activities can be high compared with the small size of the deals. Aggregation facilitates more efficient financing and re-capitalization for further investment. This tool also demonstrates confidence in these assets from the market.	
Br	Bridge lending	Bridge lending is a type of gap financing arrangement wherein the borrower can get access to short-term loans for meeting short-term liquidity requirements.	Enables growth of clean energy contractors by minimizing cash flow barriers.	
	Revolving loan facility	A revolving loan facility is a form of credit issued by a financial institution that provides the borrower with the ability to draw down or withdraw, repay, and withdraw again.	Revolving credit allows borrowers flexible repayments time horizons, supporting the development and expansion of local clean energy contractors.	
Coalitio Green Ca	Market development (grant based)	Market development is a growth strategy that grows demand for clean energy products by increasing education and access.	Increased technical knowledge for local clean energy businesses, consumers, and other market participants.	

Source: Definitions for common financial products drawn from Investopedia, supplemented with relevant green bank application

Common green bank product transaction examples

	Product Type	Example Transaction	
	Credit enhancement	Sogreen FINANCING™ California (CAEATFA)	In 2019, CAEATFA enrolled over 270 home energy efficiency projects and supported \$4.65 million in private capital financing with \$750,000 in credit enhancement. 55% of these projects were in low-income census tracts.
	Aggregation & securitization	CONNECTICUT GREEN BANK	Over the course of 2014 and 2015 the CTGB sold an initial C-PACE loan portfolio comprised of 32 energy efficiency and solar PV projects across a dozen municipalities valued at \$30 million to Clean Fund, a Green Bank- approved capital provider for the C-PACE program.
	Bridge lending	NEW YORK STATE OF OFFORTUNITY. A Division of NYSERDA	In 2021, NY Green Bank provided a \$10M bridge loan to Amp Solar Group to finance interconnection advance deposits, supporting up to 63MW of solar in the state.
	Revolving loan facility	Michigan Saves**	In 2020 Michigan Saves launched a low-to-moderate income (LMI) revolving loan and grant pilot program in partnership with DTE Energy. The combination of a small loan and grant allows LMI customers in DTE's service territory to make energy efficiency improvements that will be paid for by utility savings, with no cash outlay from the customer.
tio	Grants and market development		In 2020 Energize Delaware was selected to be the grant management agency for the new Empowerment Grant Program (EGP). The EGP monies will be awarded to organizations proposing innovative ways to provide improved efficiency, reliability, and energy saving programs that directly benefit LMI Delmarva Power customers.

Source: Public transaction data from green banks, and CGC Aggregation and Securitization Paper, 2019.

Green bank financial partners and their roles

Investor Type	Example Investo	or	Transaction Example
Large Commercial Bank	BANK OF AMERICA	Bank of America Merrill Lynch	In 2021 Bank of America participated in the largest- ever securitization for a U.S. green bank. The New York Green Bank raised \$314 million in proceeds from Bank of America through this transaction to continue delivering on its mission to address clean energy market financing gaps.
CDFI	CAPITAL for change	Capital For Change Community Development Financing Institution in Connecticut	In March 2020, the Connecticut Green Bank and Inclusive Prosperity Capital, Inc. agreed to lend \$7.7 million to Capital for Change (C4C), a Connecticut Community Development Financial Institution. C4C has long partnered with the Connecticut Green Bank in the administration of programs and sought the Green Bank's expertise to source capital to continue to operate as a lender for the energy efficiency fund, the Green Bank's Smart-E program, and its LIME loan program for multifamily properties.



How green banks are capitalized: sources and methods

National Climate Bank	•	Federal Legislation creating a National Climate Bank
	•	Resilience Funds
	•	Decarbonization Funds
	•	If the state joins the Regional Greenhouse Gas Initiative (RGGI) and uses auction proceeds to capitalize the Green Bank
State Funding	•	If the state mandates a carbon tax and some portion is used for the Green Bank
	•	General Funds
	•	Budget appropriations
	•	Issuance of a state Green Bond
Foundations	•	Grants
	•	Program-related investments





Biden Administration/House/Senate support national green bank to accelerate sustainable investment

Climate Package includes \$20 billion for a national climate bank

- Part of EPA's Greenhouse Gas Reduction Fund
- Will provide capital and technical assistance to a network of state and local green banks to accelerate investment using the green bank model

Green bank investment can support state and local climate goals

Clean Energy and Sustainability Accelerator





State-level preparations for federal funding

- State-level allocations from the Accelerator and lending terms are not specified in legislation. However, it will require wellresourced state level green banks in order to receive and deploy large amounts of funds.
- The Accelerator will want to move quickly, with a focus on equity and rapid decarbonization.
 - State-level green banks will need to be prepared to demonstrate their ability to engage "climate-impacted" disadvantaged communities.
- The Accelerator's legislation defines 7 sectors for investment. State-level green banks should be prepared to demonstrate effective products to be deployed in: renewable power, transportation, building, climate resilience, sustainable agriculture & forestry, industry, and the grid.

Approved Sectors for Accelerator investment





40% of investment made in disadvantaged communities to create jobs & businesses, lower energy costs

As non-profit, Accelerator has unique abilities to target investment for disadvantaged communities



<u>Targeted Investment</u> in Disadvantaged, Frontline Through State & Local Partners





22 green banks exist across 17 states and DC with more being created in preparation for federal opportunity



Green bank pathways and strategies for creation

Pathway	Level of Capitalization	Method
Bootstrap Model	• \$1–3 million	Seed funding used to design and implement at most one financial product which the Green Bank can use as proof of concept to then start raising additional capitalization funds in future years.
Lean and Mean Model	• \$10–50 million	Capital used to stand up a Green Bank and roll out one or two programs. As the Green Bank grows, additional capital can be added through foundations, government action, or balance sheet borrowing.
Transformation Model	• \$100 million and more	This level of capitalization would allow the Green Bank to launch multiple financial products in order to transition the state's energy economy to clean energy and recover from COVID-19 through job creation, and safer, more reliable, more resilient, and more equitable energy sources.



The largest green banks are public or quasi-public entities

LARGEST GREEN BANKS IN THE U.S.

Green Bank	Year Founded	Form	Initial Capital
NY Green Bank	2013	Public	\$1B upfront in ratepayer funds
CONNECTICUT GREEN BANK	2011	Quasi-Public	\$30M upfront in combination of ratepayer and RGGI funds
Hawaii Green Infrastructure Authority	2013	Public	\$140M upfront in ratepayer funds
DC GREEN BANK	2018	Quasi-Public	\$105M upfront in ratepayer funds



Smaller green banks (\$5-40mm of initial capital) are mostly private, nonprofit institutions

Gree	en Bank	Year Founded	Form	Initial Capital
	NYCEEC BUILDING FINANCIAL SOLUTIONS	2011	Nonprofit	\$39.2M
	COLORADO CLEAN ENERGY FUND	2018*	Nonprofit	\$30M
Ś	Montgomery County GreenBank Your partner for clean energy THE	2016	Nonprofit	\$14.1M
	Michigan Saves‴	2009	Nonprofit	\$7.1M
96	RHODE ISLAND INFRASTRUCTURE BANK	2015	Quasi-Public	\$7M



To learn more about green banks, follow the links below:

- American Green Bank Consortium's 2021 annual report
- <u>Catalyzing Investment for Environmental Justice</u>
- <u>Clean Energy and Sustainability Accelerator Overview</u>

Please reach out to CGC if you are interested in learning more about green bank opportunities.




Thank You

Abraham Wapner, Program Director Coalition for Green Capital abe@coalitionforgreencapital.com Twitter: @CGreenCapital



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Kerry O'Neill

CEO Inclusive Prosperity Capital, Inc.

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INCLUSIVE PROSPERITY CAPITAL

IPC OVERVIEW AND APPROACH TO GREEN BANKING

A MISSION-DRIVEN CLEAN ENERGY INVESTMENT PLATFORM, INVESTING IN UNDERSERVED COMMUNITIES AND MARKETS

CDFA-BRICKER WEBINAR SERIES: GREEN FINANCING 101 FEBRUARY 1, 2022



Who We Are

We are Inclusive Prosperity Capital, a mission-driven clean energy financing platform spun out of the Connecticut Green Bank focused on aligning investment capital and financing programs with organizations, projects, and community initiatives that benefit traditionally underserved markets.

What We Do

We provide a gateway to inclusive prosperity by engaging with communities impacted most by climate change. We invest in clean energy and resilience in partnership with local initiatives and organizations to provide energy security, climate justice, and economic growth.



INVESTMENT THESIS



Market Development

Foundation of Success

\$2 billion of public & private capital deployed in CT from 2012 – 2021:
\$500 million in underserved markets

Project Deployment & Risk-Adjusted Returns

Successful capitalization of underserved markets & credits with blended capital at various returns, geographic diversification, de-risked as needed Market Opportunity

Data-Driven Performance

Data-driven market development resulting in excellent portfolio performance, limited defaults, and measurable ESG impact through rigorous data collection.

Productization & Standardization

Product orientation and standardization / replicability focus driving operational efficiencies and scale; origination expansion through channel partners

CAPITALIZATION



Blended Capital for Sustainability



Philanthropy & public investment uniquely positioned to kick-start and leverage billions of dollars of climate investment

Layer on **impact investments** at market returns as well as **commercial capital**

Grants can pair with capital grants, PRI, and guarantees

Operating grants to build climate finance capacity has **multiplier effect**



What IPC Offers Partners & Investors

- Scale: Aggregating small, underserved markets/projects into larger, more liquid, investment portfolios and productized platforms.
- > Public-private orientation: Green bank roots mixed with private capital investors & markets
- Investment expertise: Finance, program, admin staff grounded in deal structures across technologies that "work" for underserved markets
- Origination focus: Channel partner approach, including deep partnerships with leading low-income clean energy stakeholders, CDFIs and credit unions and their trade networks.
- > **Impact**: Sustainability, climate justice, & social impact focus
- > **<u>Returns</u>**: Targeted risk-adjusted return profiles matching investor requirements

IPC platform, anchored by scaled PRI/equivalents, philanthropic support, and large investment in fund infrastructure, can be leveraged to quickly scale clean energy investing in underserved markets



3-Yr Investment to Build Foundation for National Scale

- > Platform Infrastructure: structured finance, transaction management, underwriting, legal, insurance, accounting, treasury, tax, IT/tech platforms, compliance, operations, asset management set up to handle multiple products, jurisdictions and investors
 - 18 full-time employees, 4 open positions
 - "Intangible asset" representing \$2M of corporate investment
 - ✤ 30+ corporate entities, mix of not-for-profit and for-profit subs
 - ♦ \$6M operating budget for FY22, 11 separate investors
- Standardized, Scaled Operations: management team with deep expertise is tech-enabled, productized businesses that experience rapid scale
 - Customized technology platforms for application, origination and reporting significant ongoing investment
 - Culture of continuous improvement, process, streamlining



Our Programs

- Lending IPC lends to qualified, mission-aligned, organizations. IPC's capital is flexible and can be leveraged or used to de-risk complex capital stacks.
 - De-Risking Other Lenders IPC deploys financial resources (e.g., PRI, credit guarantees, mezzanine debt) in innovative ways, lending directly or catalyzing our partners lending by pledging our resources to them.
- > Asset Ownership IPC develops, acquires and owns distributed and community scale solar & storage assets aggregating smaller projects, harder to underwrite credits. A key differentiator of our investment platform.
- > New Structure Lending IPC specializes in lending into new and innovative structures, underwriting, and technologies.
- > Product, Program, and Process Design IPC strives for the most standardized approach possible, including transparency around terms, conditions, and pricing. We help governments, lenders, CDFIs, nonprofits and others, design their own program or "white-label" ours, providing the tools and guidance necessary for administration, including ongoing market support.



> Green Banks / Government – IPC provides product solutions, co-product development, and capital to de-risk and fund projects or programs.

















green capital

 Solar and Energy Efficiency Developers – Financing to meet business needs, including working capital.
 ELEVATE ENERGY



POWER

MISSION

NOVATE - COLLABORATE - EMPOWI



Smarter energy use for all







> Non-Profits and Mission Aligned Lenders – Green products to help others accomplish their mission.

/ inclusiv /



LISC WESTERN NEW YORK





NH

Carsey School > Housing Portfolio Owners and Lenders – Flexible lending terms specifically designed to meet the needs of this sector.



 Several relationships and models in development including for profit and nonprofit private developers, HFAs, and CDFIs and other lending intermediaries.

OUR PRODUCTS AND MARKETS



> Multifamily Housing & Nonprofits

- Term loans and debt facilities (Catalyst)
- Pre-development and bridge loans
 (Navigator, contractor bridge financing)
- ***** Working capital and credit facilities

> Single Family Residential

Credit facilities and lending programs for single family LMI originators – (de-risking structures for solar financiers, Smart-E)

> Commercial

- Solar ownership platform Power purchase agreements for distributed and community solar (Solar PPA)
- Solar debt
- Solar + storage debt and broader resiliency underwriting
- Bridge Loans bridging incentives, interconnection, other needs
- Mezzanine Debt for project finance









Houses of

Worship







Town Hall

School

Library

Multifamily

Single Family

Community Solar

Multifamily and Non-Profit









Multifamily & Non-Profit Market Assessment

- > Many older properties are need of capital improvements that include HVAC systems, energy efficiency improvements, and health and safety challenges
- Smart energy improvements can significantly reduce energy and other operating costs for owners and residents, even for distressed properties
- > Health & safety issues must often be addressed before energy improvements can be implemented
- Funding and education is needed to assess, design, and implement
- Financing must often accommodate restrictions and covenants on existing debt, for all ownership types and existing capital structures.
- > Address challenges for mid-cycle properties





Navigator Pre-Development Loan

A simple, unsecured pre-development line of credit that funds analysis and design of energy and health & safety improvements for multifamily properties using owner-selected and managed professional service providers.

Catalyst Term Loan

Loan supports energy improvement projects for low- and moderate-income multifamily properties and community-based non-profit organizations. It provides unsecured financing for new construction and renovation projects, including:

Solar Power Purchase Agreement (PPA)

- Provides multifamily owners the opportunity to go solar with no money down and lock-in PPA electric rates (fixed or escalating options) for up to 25 years.
- A great option for housing authorities and non-profits who want to go solar, but are unable to monetize solar and other tax credits.

Credit Facilities and Working Capital

IPC develops tailor made financing programs that can serve as necessary capital to move markets forward, including working capital, lines of credit, bridge loans to incentive programs, and other necessary credit facilities for our partners.

Single Family Residential – Smart-E









Problem We're Solving – Scaling Green Home Upgrades

Homeowners

- Don't know who to trust
 - What to install
 - How to find a good contractor
- Challenged to pay for upgrades

Lenders

(Many) don't
 know green
 consumer
 lending

- Don't know how to get started
- Collateral and Risk

Contractors

- Need
 convenient and
 affordable
 financing
 options
- Need working capital to handle multiple jobs with financing

Governments

Need all hands on deck to meet policy goals, particularly private capital partners



Smart-E Loan for Homeowners – National Platform

Smart-E mobilizes the lending capacity of local lenders, a vetted contractor network, and the experience of trusted program partners to scale clean energy home upgrades in a national residential loan platform using a proven, standardized product that supports underserved borrowers.



Program Snapshot

- Over \$250M loans, 23,000 homeowners in 3 states (CT, MI, CO)
- ✤ 16 community lenders
- 1,000+ contractors across all trades – solar, efficiency, HVAC and more
- Excellent portfolio performance

SMART-E LOAN PRODUCT

- > Residential **unsecured loan** product for homeowners
 - 1-4 unit, owner-occupied residential properties
- > Low-interest financing with flexible terms, enabled by loss reserve
- All customers get the same interest rate, no matter their FICO

Term	5-Years	7-Years	10-Years	12-20-Years
Rate (not to exceed)	4.49%	4.49%	4.99%	5.49%

- Easy application through local lenders
 - * 580+ FICOs
 - DTI up to 50% (screen waived with FICOs of 680+)
- > 40+ energy improvements
 - Heating and cooling, solar, insulation, windows, etc.
- > \$500 \$40,000 loan amounts available
 - 25% of loan for "other"
- > Progress payments built into the loan
 - 1/3 upon closing, 2/3 upon proof of completion









Commercial Financing Programs







SOLAR PPA



Solar Power Purchase Agreement

Allows property owners to use solar with no money down, delivers immediate savings on electricity

- IPC develops, owns, maintains, and warrants system performance
 - Non-profits and municipalities can utilize tax credits through third party ownership structures
- ✤ System size: Minimum of 50 kW DC
- Appropriate for non-profits, municipalities, affordable housing, houses of worship, housing authorities, and other mission aligned properties, including commercial.
- Serving all incomes, including community solar with LMI subscribers.
- Owner purchases electricity generated by the system at an agreed upon rate for up to 25 year; buyout option at end of year 5.





Images by Benjamin C. Robertson Silver Tree Films

OTHER SOLAR SOLUTIONS



Commercial Solar Portfolio Debt

- IPC can price requests for debt for commercial solar portfolios of distributed projects upon request
- Markets Served: all, but focused on housing portfolio owners and project developers in <u>markets</u> with good solar economics
- Income Levels Served: all, expertise in lowincome housing, houses of worship, lower income communities



Community Solar Debt / Community Owned Community Solar

- IPC provides debt capital to community solar projects that are breaking new ground and making solar accessible to all
- Markets Served: all
- Income Levels Served: all, but with a focus on low- and moderate-income communities and subscribers



SOLAR + STORAGE



Solar + Storage / Virtual Power Plant Financing

- Solar + storage solution for resiliency in lowincome communities
- Markets Served
 - Multifamily affordable housing
 - Scattered site single family
 - Community centers
 - Municipal buildings
 - Other community resilience assets
 - ✤ (Community owned) community solar
- ✤ Terms
 - Long-term, technology and solution dependent
- ✤ Resiliency
 - Insulate vulnerable communities from energy insecurity
 - VPP is a tool for connecting communities through energy efficiency, usage, and storage
 - ✤ At scale, can change grid dynamics





Photos by Hunter Johansson / Solar Responders

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Appendix

Supplemental Materials



Catalyzing Investment for Climate Justice

BIPOC communities and organizations, low-income neighborhoods, creditchallenged borrowers, have so far been largely excluded from the clean energy transition. IPC develops market tools and democratizes access for communities historically excluded from energy finance.

- > BlocPower Scalable facility and first capital to support transformative MBE in heat pump and urban electrification transition.
- > **PosiGen** Bridge capital for residential solar installs in LMI and communities of color.
- Elevate Energy Structured contractor line of credit to support capacity building for small diverse contractors in Chicago and Detroit.
- EnerWealth Grant, admin and investment support for M&WBE community solar contractor developing projects for rural Southern Black farmers and communities.
- > Solar Stewards Partnered with M&WBE firm on Social REC revenue stream for BIPOC solar.
- > Mission Energy Partnered on solar development benefiting low-income communities.
- Buffalo Accelerator Placed-based community development work, including local CDFI, to both identify and scale market transformation opportunities for clean energy and resilient upgrades.
- Inclusiv/Smart-E Partnering to bring standardized unsecured loan program to Inclusiv members around the country, starting in AZ, NM and TX.

NAVIGATOR LOAN



Case Study

- Success Village Coop (Bridgeport CT) needed to lower their escalating energy costs. IPC worked with Success to structure project savings to pay for critical upgrades.
 - 964 units, WW2 workers housing, central heating plant circa 1960's, with annual heating costs: \$1.8M
- ✤ IPC Provided:
 - <u>Technical Assistance</u>: Governance support from UHAB, preliminary engineering and development TA from IPC team
 - <u>Pre-Development Loan:</u> \$150K for engineering analysis, design, development and funding of new heating systems
 - Health & Safety Loan: \$165K for removal of asbestos for phase 1 pilot
- Stimated implementation cost: \$20 Million







CATALYST TERM LOAN





Case Study

- Fleet Development (Oregon) was seeking a long-term financing partner for solar projects on a portfolio of USDA-RD and HUD-supported affordable housing properties.
- IPC structured a term debt solution that incorporated multiple revenue streams and can be scaled across their portfolio.

Terms:

- ✤ \$834K project cost, \$348K loan
- 12 years Financing
- First-priority asset lien on installed equipment
- Energy + operating savings
- ✤ Aggressive unsecured lending rate







SOLAR PPA





Mission Case Study

In 2020, Inclusive Prosperity Capital partnered with Mission Energy to make energy improvements possible for their customers utilizing the Solar Power Purchase Agreement. This is just one example of how Green Banks partnering together can make communities stronger, greener, and more resilient.



Who is Mission Energy?

 Mission Energy provides turnkey solar and energy efficiency project development, funding, and implementation services for nonprofit organizations. IPC has partnered with Mission Energy to provide capital for their solar and energy efficiency projects.

***** Terms:

- \$1,244,945 loan
- 394.11 kW DC solar PV array
- Projected savings
 - 624,830 kWh



Images by Benjamin C. Robertson Silver Tree Films

CREDIT FACILITY



IPC structured a \$5M credit facility for BlocPower to launch its first financing product in their target market of owners with few financing options

- Markets Served
 - Nonprofits, including houses of worship, multifamily properties, small & medium commercial properties
- ✤ Product
 - Equipment lease for heat pumps and other energy efficiency improvements
- Case Study St. Bart's Episcopal Church:
 - Installation of a 74-ton Daikin heat pump system to replace an aging oil boiler system
 - ✤ \$514K project cost, \$258K loan
 - Forecasted lifetime savings of 8,166 MMBTU
 - Forecasted annual customer savings of \$8,500
 - Forecasted 70% reduction of GHG emissions

BLOC POWER



6



Thank you

for joining the conversation today. Send us your questions and comments!

CDFA-Bricker Webinar Series: Green Financing 101





Gwen Yamamoto Lau

Executive Director Hawaii Green Infrastructure Authority

See all of CDFA's resources online at www.cdfa.net/resources

CDFA – BRICKER WEBINAR SERIES: Green Financing 101

GEMS

Hawaii Green Infrastructure Authority

February 1, 2022

Hawaii Green Infrastructure Authority

- Constituted in November 2014, Act 211 (SLH 2013) provided a framework to establish a State administered clean energy financing Authority
- Capitalized with the net proceeds of a \$150.0 million Green Energy Market Securitization ("GEMS") Bond



HGIA's **"WHY**"

Objective:

Make clean energy investments accessible and affordable to Hawaii's underserved ratepayers; stimulate private investments and leverage innovative tools to mitigate risks and reach new markets.



"Ohana means family. Family means nobody gets left behind."



Goals

Original 2014 Goal:

At least 51% of the funds to be used to finance LMI households and nonprofits

Current Goal effective 9/1/2019:

100% of the remaining funds to be used to finance underserved ratepayers defined as LMI homeowners, renters, nonprofits, small businesses and multi-family rental projects



Loans Funded to Date




On-Bill Repayment Mechanism

HGIA's "HOW"

Green Energy Money \$aver ("GEM\$") On-Bill Program

- Eliminates credit barriers
- Immediate estimated utility bill savings
- Obligation tied to the utility meter (allows for transfer from tenant to tenant)
- Payments conveniently made via monthly electric utility bill



Utility bill: Before & after solar installation



Projected Utility Bill Savings: **\$8,400** (over 20-year system lifetime) **Plus** Estimated **\$4,200** in Tax Credits **Total Estimated Benefits: \$12,600**



GEMS

Utility bill: Before & after solar installation



Estimated Energy Savings: **\$24,658** (over 20-year life of PPA) **Estimated Energy Savings: \$37,291** (of exercise purchase option and purchase price =

GEM\$ Loan Balance)





Utility bill: Before & after solar installation





Kahauiki Village Micro-Grid Financing Solution

HGIA's "HOW"

Exciting Elements of K-Village

- Innovative approach to responding to the state's homeless crisis
- Groundbreaking initiative that maximizes public and private resources
- No low-income housing tax credits, no Section 8 Project-Based subsidies, no HHFDC financing
- Multiple Phases aggregating 153 homes
- Rents lower than comparable projects





Scary Elements of K-Village

- Innovative approach to responding to the state's homeless crisis
- Groundbreaking initiative that maximizes public and private resources
- No low-income housing tax credits, no Section 8 Project-Based subsidies, no HHFDC financing
- Multiple Phases aggregating 153 homes
- Rents lower than comparable projects





Hurdles to Overcome

- No historical cash flow to determine feasibility of proforma financial projections
- No Project-Level permanent lender, HHFDC or low-income housing tax credit investor involved to closely monitor project's ongoing financial viability
- No project based subsidies to increase tenant demand
- First Phase consisted of 30 homes. Micro-grid infrastructure to support 153 homes. Project costs "front-loaded" and supported by only 20% of the total projected units
- Desire to minimize the cost of power to the project







What's Next?

State Small Business Credit Initiative

- HGIA to administer approximately \$40.0 million to launch:
 - Collateral Support Program
 - Loan Participation Program
 - CDFI
 - Catalytic Projects





Property Assessed Financing

- Bill introduced to authorized property assessed financing in Hawaii
 - Clean energy
 - Clean water
 - Hurricane readiness
 - Resiliency







For more information, please contact: Hawaii Green Infrastructure Authority (HGIA) Gwen Yamamoto Lau <u>Gwen.s.yamamotolau@Hawaii.gov</u>

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CDFA-Bricker Webinar Series: Green Financing 101

Questions?



CDFA-Bricker Webinar Series: Green Financing 101

Upcoming Events



VISIT CDFA.NET

FOR MORE INFO

BOND FINANCE WebCourse Week	REGISTER FOI One or both
Intro Level.	FFR 14-15

Advanced Level:

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CDFA // BNY Mellon Development Finance Webcast Series: Analyzing the Impact of COVID-19 Emergency Loan Funds

Tuesday, February 22, 2022 @ 2:00 PM - 3:00 PM Eastern

Intro Revolving Loan Fund WebCourse

March 28-29, 2022 @ 12:00 PM - 5:00 PM Eastern

Advanced Revolving Loan Fund WebCourse

March 30-31, 2022 @ 12:00 PM - 5:00 PM Eastern

Register online at www.cdfa.net

FEB 16-17



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