



Quarterly Metrics Report No. 9 (September 30) Webinar | November 29, 2016

Agenda

Note: All data included in this quarterly update is current as of September 30, 2016, unless otherwise indicated

- Overview of Performance
 - Performance at a Glance As of September 30, 2016
 - Transaction Status & Active Pipeline
- Investments
 - Current Portfolio
 - End-Users, Geography & Technology
- Objectives, Milestones & Deliverables
 - Overarching Goals, KPIs & Metrics
 - FY 2016 2017 Objectives
 - Progress Against Plan Deliverables
- Quarterly Metrics
- Trends
 - Pipeline of Investment Opportunities
 - Investment Portfolio
 - Estimated Lifetime GHG Reductions
 - Revenues & Expenses



Overview of Performance



Performance at a Glance – As of September 30, 2016

Over the past two years, NYGB has made significant contributions to the Governor's clean energy initiatives and the energy financing market in NYS

Stimulating
New Clean
Energy
Proposals in
the State

Proposals
received for
\$1.6 billion in
NYGB
investment,
representing
total proposed
clean energy
investment in
NYS > \$5.3
billion

Strong Active Pipeline

Active pipeline of transactions moving towards closing is \$638.7 million

Portfolio Driving Material Clean Energy Investments

Across NYS
Investments
support total
clean energy
project costs of
up to \$953.0
million, with a
current NYGB
portfolio of
\$198.5 million
across
technologies,
end-users and
geographies

Mobilizing Private Capital

NYGB's current portfolio represents expected mobilization ratio of up to ~5:1

Revenue Growth Paving the Way to Self-Sufficiency

Over **\$6.7 million** in revenues generated

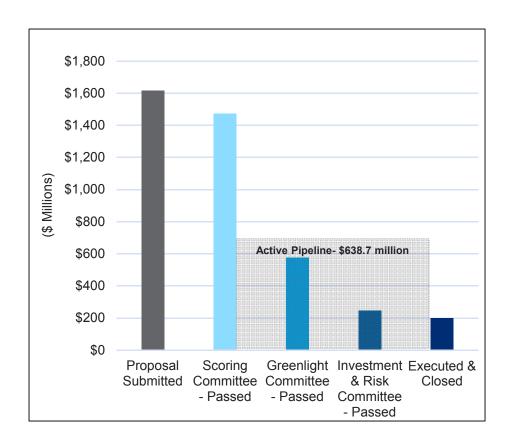
Contributing to REV, the CEF & CES Objectives

Estimated lifetime GHG reductions up to 4.2 million metric tons, equivalent to removing over 49,000 cars for 19 years

Q3 Metrics Report was filed November 15, 2016, pursuant to the Metrics, Reporting & Evaluation Plan v3.0 and is available at www.greenbank.ny.gov/About/Public-Filings



Transaction Status & Active Pipeline



Since inception through September 30, 2016:

- \$1.6 billion of proposals received and evaluated by NYGB's Scoring Committee
- \$1.5 billion of proposals passed Scoring Committee evaluation – representing potential investments that meet NYGB's mandate and proposal evaluation criteria
- \$576.4 million of proposals received Greenlight Committee recommendation for advancement
- \$245.9 million of proposals vetted by the Investment & Risk Committee (IRC) and approved by NYSERDA's President & CEO
- \$198.5 million of transactions closed comprising the Current Portfolio - mobilizing public and private investments to support up to \$953.0 million in total project costs for new clean energy deployment in the State



Investments



Current Portfolio

Renew Fund Finance

- EE and RE retrofits for up to 12,000 NYS homeowners
- \$20.0 million subordinated capital from NYGB

Level Solar

- Residential solar (PPA offering) for up to 6,000 NYS homeowners
- \$25.0 million warehouse/aggregation facility from NYGB

United Wind

- Small wind (PPA offering) involving installation of up to 160 turbines
- \$4.0 million revolving construction loan facility from NYGB

EIC/Energize NY

- EE retrofits for commercial, multifamily and non-profit buildings
- \$5.5 million letters of credit support provided pursuant to two transactions

BQ Energy

- 1.4 MW commercial solar on brownfield site
 first of 8 planned installations
- \$1.5 million senior debt provided by NYGB as first in expected \$30.0 million facility

Solar Mosaic

- Residential solar (loan offering) for up to 9.000 NYS homeowners
- \$50.0 million warehouse/aggregation facility from NYGB as part of \$200.0 million national facility, and pursuant to two transactions

Sealed

- EE retrofits pursuant to an innovative "pay out of savings" model for up to 400 NYS homeowners
- \$5.0 million warehouse/aggregation facility from NYGB

Sunrun

- Residential solar (PPA offering) for up to 5,000 NYS homeowners
- \$25.0 million construction and \$25.0 million warehouse/aggregation facility from NYGB as part of national facilities, and pursuant to two transactions

Vivint

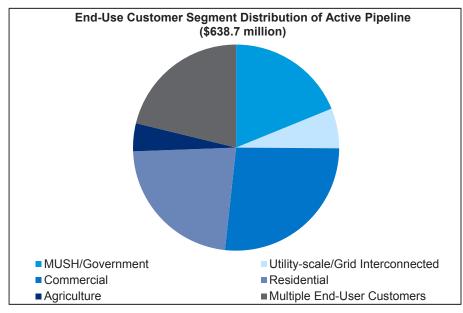
- Residential solar (PPA offering) for up to 5,000 NYS homeowners
- \$37.5 million warehouse/aggregation facility from NYGB as part of \$313.0 million national facility

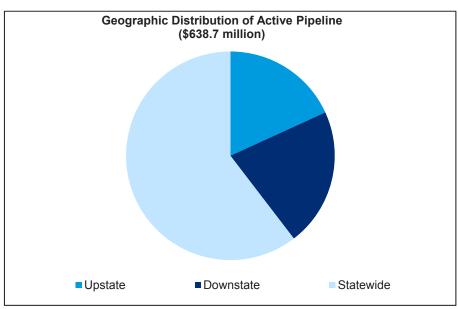
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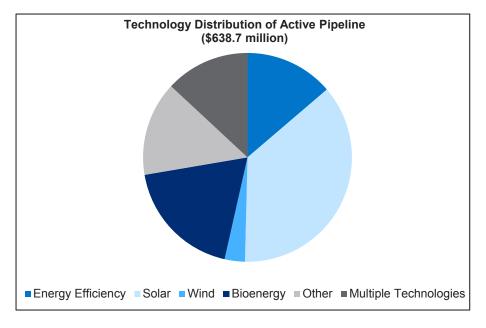
A Division of NYSERDA

In Q3 2016, two new transactions were closed – one with Vivint and the other with Solar Mosaic (an upsizing of an existing investment). Details of all NYGB investments can be found in Transaction Profiles available at www.greenbank.ny.gov/lnvestments/Transaction-Profiles. Press releases can be accessed at www.greenbank.ny.gov/News/In-The-News.

End Users, Geography & Technology









Objectives, Milestones & Deliverables



Overarching Goals, KPIs & Metrics

NYGB Goals	Key Performance Indicators	Metrics
	Mobilizing private capital	 Mobilization ratio of total project costs to NYGB funds, reported quarterly
Attract Private Sector Capital into Clean Energy Capital Markets	 Portfolio driving material clean energy investments across NYS 	■ Total project costs enabled by NYGB (cumulative) (\$)
	■ Growing portfolio	■ Total committed funds (cumulative) (\$)
in NYS	 Strong Active Pipeline 	Active Pipeline (\$)
	 Stimulating new clean energy proposals in NYS 	 Investment proposals received (cumulative) (\$)
Be Self-Sustaining	 Revenue growth paving the way 	Revenues (cumulative) (\$)
	to self-sufficiency	Operating expenses (cumulative) (\$)
Reduce GHG Emissions	 Contributing to CEF objectives and in turn REV & the CES (by supporting increased deployment of renewable energy, distributed energy & energy efficiency) 	 Current portfolio estimated gross lifetime GHG emissions reductions, reported quarterly (metric tons) Installed energy and environmental benefits, reported annually: Energy saved by fuel type from energy efficiency projects (MWh/MMBtu) and/or actual clean energy generated (MWh) Primary energy saved from CHP (Btu) Clean energy generation installed capacity (MW), if applicable GHG emissions reductions (metric tons)



FY 2016 – 2017 Objectives

NYGB's 2016 Business Plan defined three primary objectives:

Put Ratepayer Money to Work

Committing at least \$200.0 million per year towards clean energy transactions driving greater deployment in NYS

Mobilize Private Capital

On a portfolio basis over a 10year period, achieve an 8:1 ratio when looking at total project value vs. NYGB capital

Drive Toward Self- Sustainability

NYGB continues to work diligently towards achieving breakeven by 2018

These primary objectives are being accomplished by discrete activities & deliverables:

Focus Interest of Syndicates on New York State Clean Energy Development

Streamline Proposal Intake Process

Cultivate Opportunities Related to New State Programs & Initiatives Build Upon & Capture Benefits of Prior Business Development Activities

Attract & Retain Quality Staff

Continuously Improve Business Practices Product Development & Issuing Targeted Solicitations Implement Maintain &
Optimize Critical
Infrastructure & Platforms



Progress Against Plan Deliverables

Goal

Put ratepayer funds to work:

Commit \$200.0 million in new investments each year

Mobilize private capital:

of 3:1, and 8:1 across portfolio by end of CEF in 2025

Continue to grow revenues and

manage expenses to reach self-

sufficiency by 2018

Achieve average mobilization ratio

Drive towards sustainability:

Strong Active

Pipeline:

Maintain an Active Pipeline of at least \$300.0 million

Reduce GHG Emissions:

Contribute to CEF objectives and in turn REV & the CES

Progress

NYGB has committed \$143.5 million (~70% of goal) this year, with new transactions moving towards close. Current Portfolio is \$198.5 million

NYGB's current portfolio-wide mobilization ratio is ~5:1 and on track to achieve an 8:1 mobilization ratio by 2025, including through recycling capital for investment in new transactions

Over **\$6.7 million in** revenues has been generated since NYGB's inception

Active pipeline of potential investments proceeding to close is **\$638.7** million

Current Portfolio represents up to: **217 MW** of clean energy built in NYS, **6.0 million MWh** generated, **1.0 million MWh** saved, **1.0 billion MMBtus** saved, and estimated lifetime GHG reductions up to **4.2 million metric tons**



Progress Against Plan Deliverables (cont.)

Category	Deliverable	Status in Quarter Ending September 30, 2016			
Strong Active Pipeline					
Active Pipeline	 Maintain an Active Pipeline of at least \$300.0 million. 	Achieved for this Quarter: Active Pipeline \$638.7 million.			
CRM, Transaction Pipeline & Portfolio Management Infrastructure	 Implementation of third-party platform, full "go-live". 	Ongoing & On Track: Following execution of the contract with the preferred platform provider in mid-June 2016, the past quarter's activities have comprised detailed implementation planning and creation of the system blueprint, platform design and system build-out, including commencing the upload of NYGB historic data and the creation and customization of platform features and reporting. These efforts are continuing.			
Portfolio Driving Material Clean Energy Investments Across NYS					
Committed Funds	Commit \$200.0 million to NYGB investments per year, equating to an average of \$50.0 million in closed transactions per quarter.	Achieved for this Quarter: \$77.5 million of closed transactions in the quarter.			
 Financing Commercial Real Estate & Multi-Family Solar System &/or Energy Efficiency Purchases 	Publicly issue RFP.	 Ongoing & On Track: Taking into account the input received from respondents to each of the previously-issued RFIs, NYGB convened a roundtable discussion on September 22, 2016, including developers and capital providers to further advance the relevant issues. Roundtable and all other feedback is currently being incorporated in the drafting of the 			
 Financing Ground-Mounted Solar Systems Targeting Corporate & Industrial End- Users 	Publicly issue RFP.	proposed RFPs to structure offerings to motivate increased solar system and energy efficiency investments in the target end-user groups.			
Fund Administration & Loan/Investment Servicing Infrastructure	 Implementation of third-party platform, full "go-live". 	Ongoing & On Track: Completed negotiations and executed Fund Administration & Loan/Investment Servicing Agreement with preferred provider on August 12, 2016. Detailed system design and implementation to accommodate all NYGB processes and procedures, including inter-agency and counterparty interactions, commenced.			
Available Capital	 Satisfy the Cash Release Trigger pursuant to the 2015 Capitalization Order through achieving a portfolio size of \$150.0 million. 	 Achieved for the Plan Year: Portfolio size at September 30, 2016 was \$198.5 million. 			
Mobilizing Private Capital					
Mobilization Ratio	Achieve an average, portfolio- wide mobilization ratio of at least 3:1, driving towards a ratio of 8:1 across all NYGB investments by the end of the CEF term in 2025.	Achieved for this Quarter: Current quarter Mobilization Ratio is up to 5:1.			



Quarterly Metrics



Quarterly Metrics*

* Quarterly Metrics are reproduced below, but without all footnotes. For complete Metrics and relevant narrative, please see the full Report filed on November 15, 2016 available at www.greenbank.ny.gov/About/Public-Filings

Capital Position		
Authorized Capital (\$)	\$1.0 billion	\$1.0 billio
Authorized Administrative Expenses (\$)	\$17.5 million	\$17.5 millio
Authorized Evaluation Expenses (\$)	\$4.0 million	\$4.0 millio
Available Capital (\$)	\$159.0 million	\$236.6 millio
Operational Matters		
Cumulative Revenues (\$)	\$4.4 million	\$6.7 millio
Cumulative Operating Expenses (\$)	\$11.0 million	\$12.7 millio
Direct Operating Expenses (\$)	\$6.0 million	\$7.0 millio
Allocated Expenses (\$)	\$5.0 million	\$5.7 millio
Credit Facility (if in place)		
Credit Facility Amount (\$)	Not Applicable	Not Applicabl
Credit Facility Drawn Amount (\$)	Not Applicable	Not Applicab
Credit Facility Fees & Interest (Cumulative) (\$)	Not Applicable	Not Applicabl
nvestment Portfolio		
Committed Funds (Cumulative) (\$)	\$68.2 million	\$72.7 millio
Deployed Funds (Cumulative) (\$)	\$52.8 million	\$125.8 millio
Current Portfolio (\$)	\$121.0 million	\$198.5 millio
Overall Investments to Date (\$)	\$121.0 million	\$198.5 millio
Total Project Costs (Cumulative) (\$)	Up to \$518.3 million	Up to \$953.0 millic



Quarterly Metrics (cont.)

Mobilization Ratio	Up to 4:1	Up to 5:1
Commitment Ratio (%)	55.0%	54.0%
Portfolio Concentrations (%)	75.0% Renewable Energy	85.0% Renewable Energy
	25.0% Energy Efficiency	15.0% Energy Efficiency
Number & Type of NYGB Investments	6 – Renewable Energy	7 – Renewable Energy
	4 – Energy Efficiency	4 – Energy Efficiency
Number & General Type of NYGB Counterparties	24 – Local Development Corporation, Global Corporate & Investment Banks, Commercial/Regional Banks, Specialty Finance Company, Energy Project Developers	28 – Local Development Corporation, Global Corporate & Investment Banks, Commercial/Regional Banks, Specialty Finance Company, Energy Project Developers
Estimated Gross Lifetime Energy Saved by Fuel Type from Energy Efficiency Projects (MWh/MMBtu) and/or Estimated Gross Lifetime Clean Energy Generated (MWh) for Committed Funds & Deployed Funds	Estimated Gross Lifetime Energy Saved by Fuel Type (Energy Efficiency): 960,000 – 1.0 million MWh; and 9.0 – 9.9 million MMBtu	Estimated Gross Lifetime Energy Saved by Fuel Type (Energy Efficiency): 960,000 – 1.0 million MWh; and 9.0 – 9.9 million MMBtu
	Estimated Gross Lifetime Clean Energy Generated: 1.8 – 3.4 million MWh	Estimated Gross Lifetime Clean Energy Generated: 3.2 – 6.1 million MWh
Estimated Gross First Year Energy Saved by Fuel Type from Energy Efficiency Projects (MWh/MMBtu) and/or Estimated Gross First Year Clean Energy Generated (MWh) for Committed Funds & Deployed Funds	Estimated Gross First Year Energy Saved by Fuel Type (Energy Efficiency): 78,000 – 82,000 MWh; and 780,000 – 850,000 MMBtu Estimated Gross First Year Clean Energy Generated: 88,000 – 160,000 MWh	Estimated Gross First Year Energy Saved by Fuel Type (Energy Efficiency): 78,000 – 82,000 MWh; and 780,000 – 850,000 MMBtu Estimated Gross First Year Clean Energy Generated: 141,000 – 260,000 MWh



Quarterly Metrics (cont.)

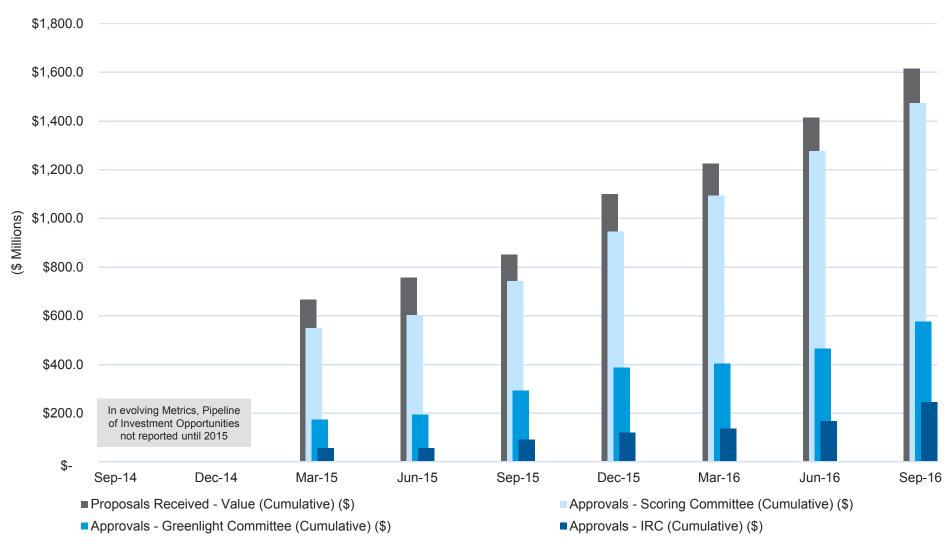
Estimated Gross Lifetime Primary Energy Saved from CHP (Btu) for Committed Funds & Deployed Funds	Not Applicable	Not Applicable
Estimated Gross First Year Primary Energy Saved from CHP (Btu) for Committed Funds & Deployed Funds	Not Applicable	Not Applicable
Estimated Gross Clean Energy Generation Installed Capacity (MW), if applicable, for Committed Funds & Deployed Funds	77.0 – 130.0 MW	122.3 – 217.3 MW
Estimated Gross Lifetime GHG Emission Reductions (metric tons) for Committed Funds & Deployed Funds	2.0 – 2.9 million metric tons	2.6 – 4.2 million metric tons
Investment Pipeline		
Active Pipeline (In the Quarter) (\$)	\$524.3 million	\$638.7 million
Investment Process		
Proposals Received – Value (Cumulative) (\$)	\$1.4 billion	\$1.6 billion
Proposals Received - Total Project Cost (Cumulative) (\$)	\$5.1 billion	\$5.3 billion
Approvals - Scoring Committee (Cumulative) (\$)	\$1.3 billion	\$1.5 billion
Approvals - Greenlight Committee (Cumulative) (\$)	\$464.4 million	\$576.4 million
Approvals - IRC (Cumulative) (\$)	\$168.4 million	\$245.9 million



Trends

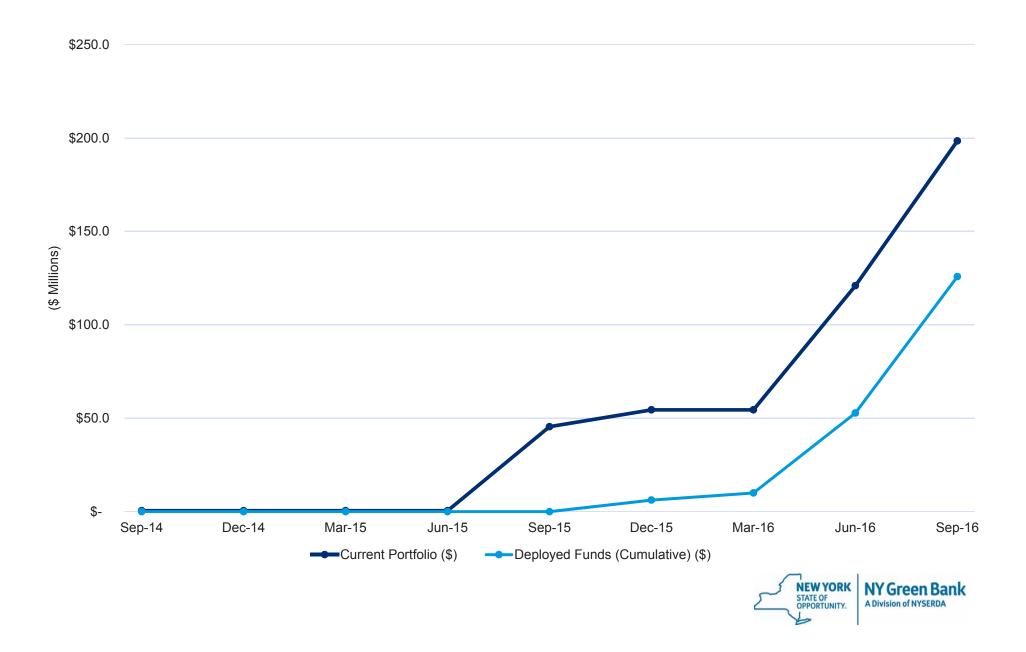


Pipeline of Investment Opportunities

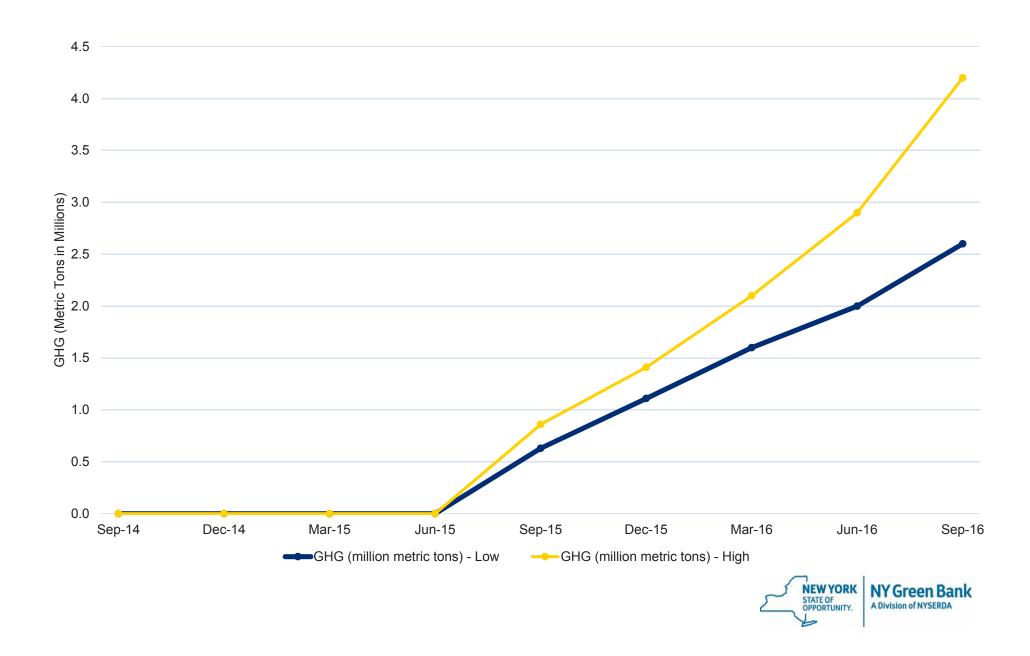




Investment Portfolio



Estimated Lifetime GHG Reductions



Revenues & Expenses

