



Quarterly Metrics Report No. 10 (December 31) Webinar | March 7, 2017

Agenda

Note: All data included in this quarterly update is current as of December 31, 2016, unless otherwise indicated

- Overview of Performance
 - Performance at a Glance As of December 31, 2016
 - Transaction Status & Active Pipeline
- Investments
 - Portfolio
 - Technology, Geography & End-Users (Active Pipeline)
- Objectives, Milestones & Deliverables
 - Overarching Goals, KPIs & Metrics
 - FY 2016 2017 Objectives
 - Progress Against Plan Deliverables
- Quarterly Metrics

- Annual Installed Energy & Environmental Benefits
- Trends
 - Pipeline of Investment Opportunities
 - Investment Portfolio
 - Estimated Lifetime GHG Reductions
 - Revenues & Expenses
- Stay In Touch with NY Green Bank
- Questions



Overview of Performance



Performance at a Glance – As of December 31, 2016

Strong quarter, closing out very strong year of clean energy investment in NYS.

NYGB closed over **\$250.0 million** of investments in 2016 – a four-fold increase year-on-year – resulting in a portfolio of **\$305.0 million**.

Stimulating
New Clean
Energy
Proposals in
the State

Proposals received for \$1.8 billion in NYGB investment

Strong Active Pipeline

Active pipeline of transactions moving towards closing is \$597.7 million

Driving
Material
Clean
Energy
Investments
Across NYS

Portfolio

Investments support total clean energy project costs of up to ~\$1.3 billion, based on overall investments to date of \$304.7 million

Mobilizing Private Capital

NYGB's current portfolio represents expected mobilization ratio on track at or above 3:1; over 10 years on track to meet or exceed 8:1

Revenue Growth Paving the Way to Self-Sufficiency

\$9.6 million in cumulative revenues generated

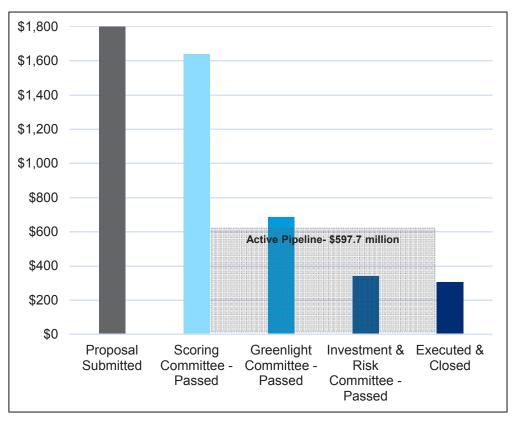
Contributing to REV, the CEF & CES Objectives

Estimated
lifetime GHG
reductions up
to 5.4 million
metric tons,
equivalent to
removing
over 60,000
cars for 19
years

Q3 Metrics Report was filed February 15, 2017, 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 December 31, 2016:

- \$1.8 billion of proposals received and evaluated by NYGB's Scoring Committee
- \$1.6 billion of proposals passed Scoring Committee evaluation – representing potential investments that meet NYGB's mandate and proposal evaluation criteria
- \$686.1 million of proposals received Greenlight Committee recommendation for advancement
- \$342.1 million of proposals vetted by the Investment & Risk Committee (IRC) and approved by NYSERDA's President & CEO
- \$304.7 million of transactions closed comprising the Current Portfolio mobilizing
 public and private investments to support up
 to ~\$1.3 billion in total project costs for new
 clean energy deployment in the State
- Active pipeline currently \$597.7 million



Investments



Portfolio

In Q4 2016, six new transactions were closed, totaling **\$106.2 million**. Details of all NYGB investments can be found in Transaction Profiles available at www.greenbank.ny.gov/Investments/Transaction-Profiles. Press releases can be accessed at www.greenbank.ny.gov/News/In-The-News.

In 2016:

- NYGB closed 13 transactions
- Committed more than \$250.0 million to clean energy
- Expected to stimulate additional private sector clean energy investment in NYS exceeding \$677.0 million

Northport School District

- EE retrofits for 9 school and administrative buildings, saving ~\$1.1 million/year
- \$8.7 million leasing facility from NYGB, arranged with Bank of America Merrill Lynch

Solar City

- Residential solar financing facilities for ~7,000 new installations across NYS
- \$50.0 million revolving and term debt facilities from NYGB provided in two separate transactions

Plug Power

- Financing deployment of fuel cell systems powering forklifts in distribution centers across NYS
- \$25.0 million senior debt provided by NYGB

New York City Housing Authority

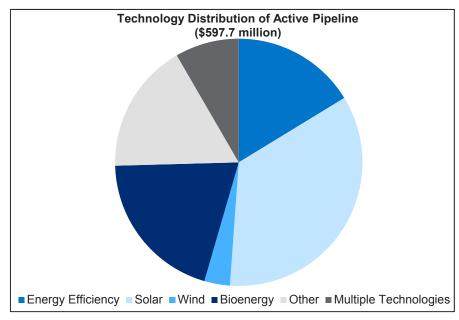
- EE retrofits for 18 multi-family/LMI housing developments
- \$11.0 million bridge loan commitment

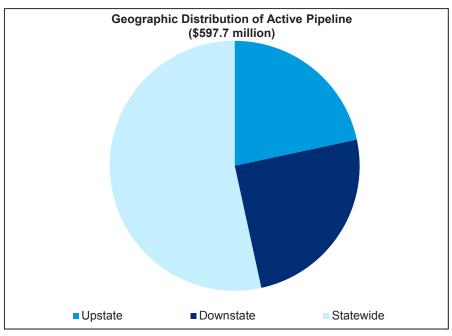
Hebrew Home for the Aged in Riverdale

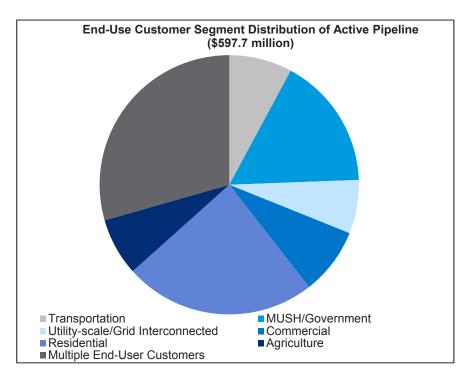
- Installation of CHP system at aged care facility, saving more than \$1.6 million/year
- ~\$14.0 million leasing facility from NYGB, arranged with Bank of America Merrill Lynch



Technology, Geography & End-Users (Active Pipeline)









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	 Portfolio driving material clean energy investments across NYS 	■ Total project costs enabled by NYGB (cumulative) (\$)
Energy Capital Markets	 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) (\$)
Do don Guotaming	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 in 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:

Achieve average mobilization ratio of 3:1, and 8:1 across portfolio by end of CEF in 2025

Drive towards sustainability:

Continue to grow revenues and manage expenses to reach self-sufficiency by 2018

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 ~**\$250.0 million (~**125% **of goal)** in FY16-17 ending March 31, with new transactions moving towards close. Current Portfolio is **\$304.1 million (\$304.7 million** overall investments to date)

NYGB's current portfolio-wide mobilization ratio meets the required **3:1** and is on track to achieve an **8:1 mobilization ratio** by 2025, including through **recycling capital** for investment in new transactions

Over **\$9.6 million in** revenues has been generated since NYGB's inception

Active pipeline of potential investments proceeding to close is **\$597.7 million**

Current Portfolio represents up to: **280.8 MW** of clean energy built in NYS, **7.9 million MWh** of clean energy generation, **1.2 million MWh** saved, **10.3 million MMBtus** saved, and estimated lifetime GHG reductions up to **5.4 million metric tons** over the life of underlying projects



Progress Against Plan Deliverables (cont.)

Category	Deliverable	Status in Quarter Ending December 31, 2016		
Strong Active Pipeline	•			
Active Pipeline	 Maintain an Active Pipeline of at least \$300.0 million. 	Achieved for this Quarter: Active Pipeline \$597.7 million.		
 CRM, Transaction Pipeline & Portfolio Management Infrastructure 	 Implementation of third-party platform, full "go-live". 	Achieved: In December 2016 NYGB and DealCloud, Inc. launched this customized system and achieved "go live". NYGB continues to work with DealCloud to fully optimize the system for NYGB's growing business and evolving needs.		
Portfolio Driving Material Clean Ener	gy 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: \$106.2 million of closed transactions in the quarter. Achieved for 2016 since NYGB committed in excess of \$250.0 million to new investments.		
Financing Commercial Real Estate & Multi-Family Solar System &/or Energy Efficiency Purchases	Publicly issue RFP.	Ongoing & On Track: RFP documents currently being drafted and are scheduled for public release in the first part of 2017.		
Financing Ground-Mounted Solar Systems Targeting Corporate & Industrial End- Users	Publicly issue RFP.			
Fund Administration & Loan/Investment Servicing Infrastructure	 Implementation of third-party platform, full "go-live". 	Ongoing & On Track: Detailed system design and implementation to accommodate all NYGB processes and procedures – as well as reflect all historic data and transactions since inception - continuing, including inter-agency and counterparty interactions.		
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 Business Plan year in the third calendar quarter of 2016.		



Progress Against Plan Deliverables (cont.)

Category		Deliverable		Status in Quarter Ending December 31, 2016			
Mok	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.	V	Achieved for this Quarter: Current quarter Mobilization Ratio on track at at least 3:1.			



Quarterly Metrics



NY Green Bank
A Division of NYSERDA

Quarterly Metrics*

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

Quarterly Metric	Prior Quarter	Current Quarter		
Capital Position				
Authorized Capital (\$)	\$1.0 billion	\$1.0 billion		
Authorized Administrative Expenses (\$)	\$17.5 million	\$17.5 million		
 Authorized Evaluation Expenses (\$) 	\$4.0 million	\$4.0 million		
Available Capital (\$)	\$236.6 million	\$127.7 million		
Operational Matters				
Cumulative Revenues (\$)	\$6.7 million	\$9.6 million		
Cumulative Operating Expenses (\$)	\$12.7 million	\$14.7 million		
Direct Operating Expenses (\$)	\$7.0 million	\$8.3 million		
Allocated Expenses (\$)	\$5.7 million	\$6.4 million		
Credit Facility (if in place)				
Credit Facility Amount (\$)	Not Applicable	Not Applicable		
Credit Facility Drawn Amount (\$)	Not Applicable	Not Applicable		
Credit Facility Fees & Interest (Cumulative) (\$)	Not Applicable	Not Applicable		
Investment Portfolio				
Committed Funds (Cumulative) (\$)	\$72.7 million	\$68.4 million		
Deployed Funds (Cumulative) (\$)	\$125.8 million	\$235.7 million		
Current Portfolio (\$)	\$198.5 million	\$304.1 million		
Overall Investments to Date (\$)	\$198.5 million	\$304.7 million		
Total Project Costs (Cumulative) (\$)	Up to \$953.0 million	Up to ~\$1.3 billion		
Mobilization Ratio	At least 3:1	At least 3:1		
Commitment Ratio (%)	54.0%	82.5%		
		15.0		
Portfolio Concentrations (%)	85.0% Renewable Energy 72.0% Renewable Energy			
, ,	15.0% Energy Efficiency	17.0% Energy Efficiency		
	0.0% Other	12.0% Other		

Quarterly Metrics (cont.)

Quarterly Metric		Prior Quarter	Current Quarter	
•	Number & Type of NYGB Investments	7 – Renewable Energy	10 – Renewable Energy	
		4 – Energy Efficiency	6 – Energy Efficiency	
		0 – Other	2 – Other	
•	Number & General Type of NYGB Counterparties	28 – Local Development Corporation; Global	41 – Local Development Corporation; Global	
		Corporate & Investment Banks;	Corporate & Investment Banks;	
		Commercial/Regional Banks; Specialty	Commercial/Regional Banks; Specialty	
		Finance Company; Energy Project	Finance Company; Energy Project	
		Developers	Developers; Municipal, University, Schools &	
			Hospitals; Energy Technology Provider &	
			Vendors; Government Authority	
•	Estimated Gross Lifetime Energy Saved by Fuel Type from	Estimated Gross Lifetime Energy Saved by	Estimated Gross Lifetime Energy Saved by	
	Energy Efficiency Projects (MWh/MMBtu) and/or Estimated	Fuel Type (Energy Efficiency):	Fuel Type (Energy Efficiency):	
	Gross Lifetime Clean Energy Generated (MWh) for Committed	960,000 – 1.0 million MWh; and	1.1 – 1.2 million MWh; and	
	Funds & Deployed Funds	9.0 – 9.9 million MMBtu	9.4 – 10.3 million MMBtu	
		Estimated Gross Lifetime Clean Energy	Estimated Gross Lifetime Clean Energy	
		Generated:	Generated:	
		3.2 – 6.1 million MWh	4.7 – 7.9 million MWh	
•	Estimated Gross First Year Energy Saved by Fuel Type from	Estimated Gross First Year Energy Saved by	Estimated Gross First Year Energy Saved by	
	Energy Efficiency Projects (MWh/MMBtu) and/or Estimated	Fuel Type (Energy Efficiency):	Fuel Type (Energy Efficiency):	
	Gross First Year Clean Energy Generated (MWh) for Committed	78,000 – 82,000 MWh; and	90,000 – 97,000 MWh; and	
	Funds & Deployed Funds	780,000 – 850,000 MMBtu	800,000 – 870,000 MMBtu	
		Estimated Gross First Year Clean Energy	Estimated Gross First Year Clean Energy	
		Generated:	Generated:	
		141,000 – 260,000 MWh	210,000 –340,000 MWh	
•	Estimated Gross Lifetime Energy Saved from CHP (MWh) for	Not Applicable	Estimated Gross Lifetime Energy Saved from	
	Committed Funds & Deployed Funds		CHP:	
			7,100 – 8,600 MWh	
-	Estimated Gross First Year Energy Saved from CHP (MWh) for	Not Applicable	Estimated Gross First Year Energy Saved	
	Committed Funds & Deployed Funds		from CHP:	
			290 - 360 MWh	



Quarterly Metrics (cont.)

Quarterly Metric	Prior Quarter	Current Quarter	
Estimated Gross Lifetime Energy Savings from CHP (MMBtu) for Committed Funds & Deployed Funds	Not Applicable	Estimated Gross Lifetime Energy Savings from CHP: -(41,000 – 50,000) MMBtu	
Estimated Gross First Year Energy Savings from CHP (MMBtu) for Committed Funds & Deployed Funds	Not Applicable	Estimated Gross First Year Energy Savings from CHP: -(1,700 – 2,100) MMBtu	
 Estimated Gross Clean Energy Generation Installed Capacity (MW), if applicable, for Committed Funds & Deployed Funds 	Not Applicable	1.6 MW	
 Estimated Gross Clean Energy Generation Installed Capacity (MW), if applicable, for Committed Funds & Deployed Funds 	122.3 – 217.3 MW	173.2 – 279.2 MW	
 Estimated Gross Lifetime GHG Emission Reductions (metric tons) for Committed Funds & Deployed Funds 	2.6 – 4.2 million metric tons	3.5 – 5.4 million metric tons	
Investment Pipeline			
Active Pipeline (In the Quarter) (\$)	\$638.7 million	\$597.7 million	
Investment Process			
Proposals Received – Value (Cumulative) (\$)	\$1.6 billion	\$1.8 billion	
Approvals - Scoring Committee (Cumulative) (\$)	\$1.5 billion	\$1.6 billion	
Approvals - Greenlight Committee (Cumulative) (\$)	\$576.4 million	\$686.1 million	
Approvals - IRC (Cumulative) (\$)	\$245.9 million	\$342.1 million	



Annual Installed Energy & Environmental Benefits



Annual Installed Benefits (Calendar Year 2016)

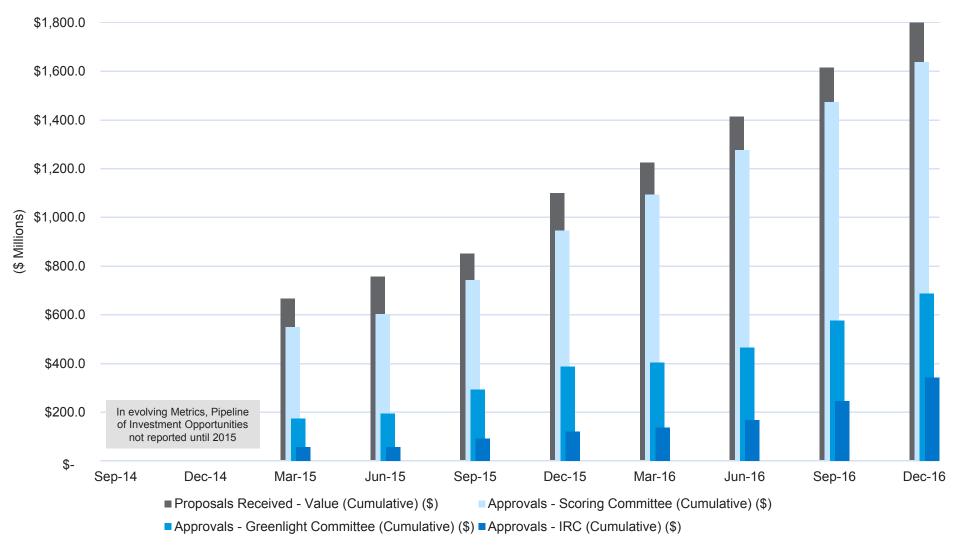
	Energy & Environmental Benefit	Prior Year	Prior Year	Current Year	Current Year
		Increment	Cumulative	Increment	Cumulative
•	Installed energy saved by fuel type from energy	Energy Saved by	Energy Saved by	Energy Saved by	Energy Saved by
	efficiency projects (MWh/MMBtu) and/or	Fuel Type (Energy	Fuel Type (Energy	Fuel Type (Energy	Fuel Type (Energy
	installed clean energy generated (MWh)	Efficiency):	Efficiency):	Efficiency):	Efficiency):
		0 MWh; and	0 MWh; and	678 MWh; and	678 MWh; and
		0 MMBtu	0 MMBtu	9,265 MMBtu	9,265 MMBtu
		Clean Energy	Clean Energy	Clean Energy	Clean Energy
		Generated:	Generated:	Generated:	Generated:
		0 MWh	0 MWh	56,676 MWh	56,676 MWh
•	Installed energy savings from CHP (MWh)	0 MWh	0 MWh	0 MWh	0 MWh
•	Installed energy savings from CHP (MMBtu)	0 MMBtu	0 MMBtu	0 MMBtu	0 MMBtu
•	Installed CHP capacity (MW), if applicable	0 MW	0 MW	0 MW	0 MW
•	Installed clean energy generation capacity (MW), if applicable	0 MW	0 MW	48.1 MW	48.1 MW
•	Installed GHG emission reductions (metric tons)	0 metric tons	0 metric tons	30,276 metric tons	30,276 metric tons



Trends

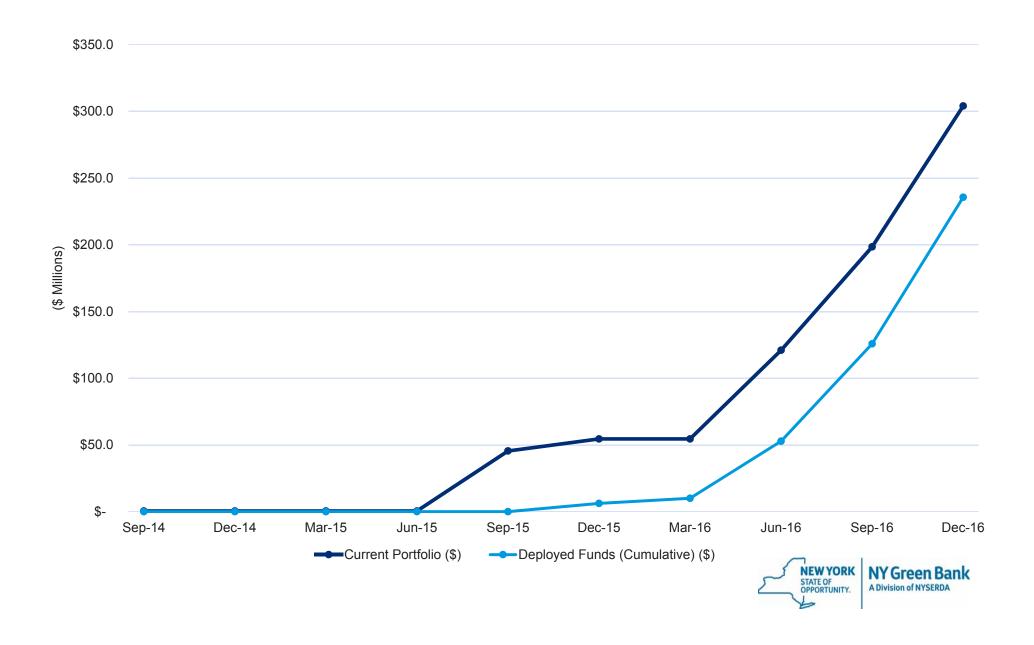


Pipeline of Investment Opportunities

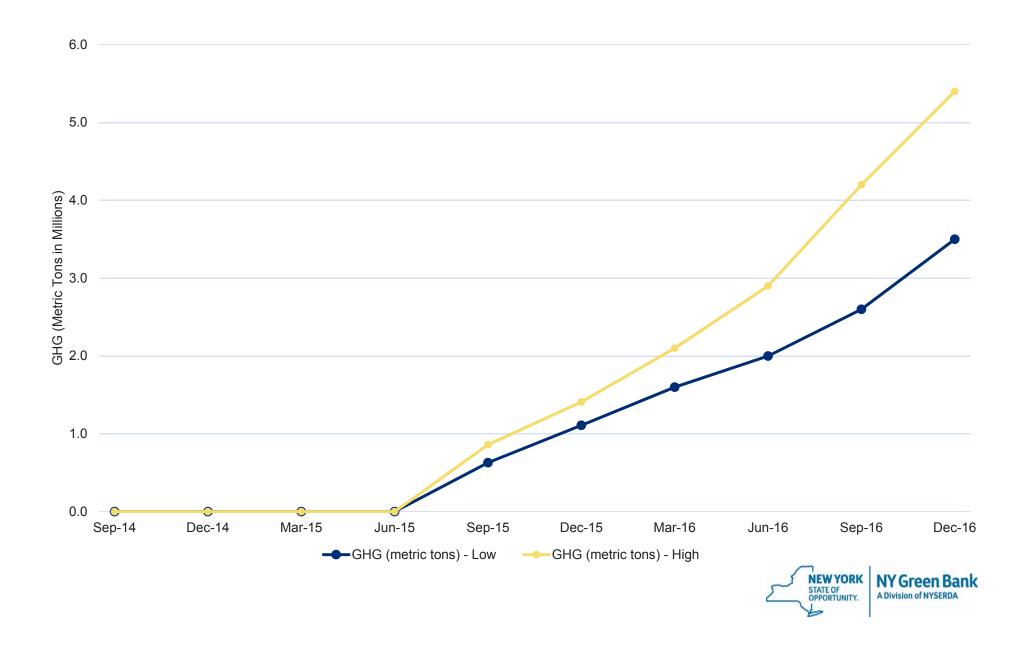




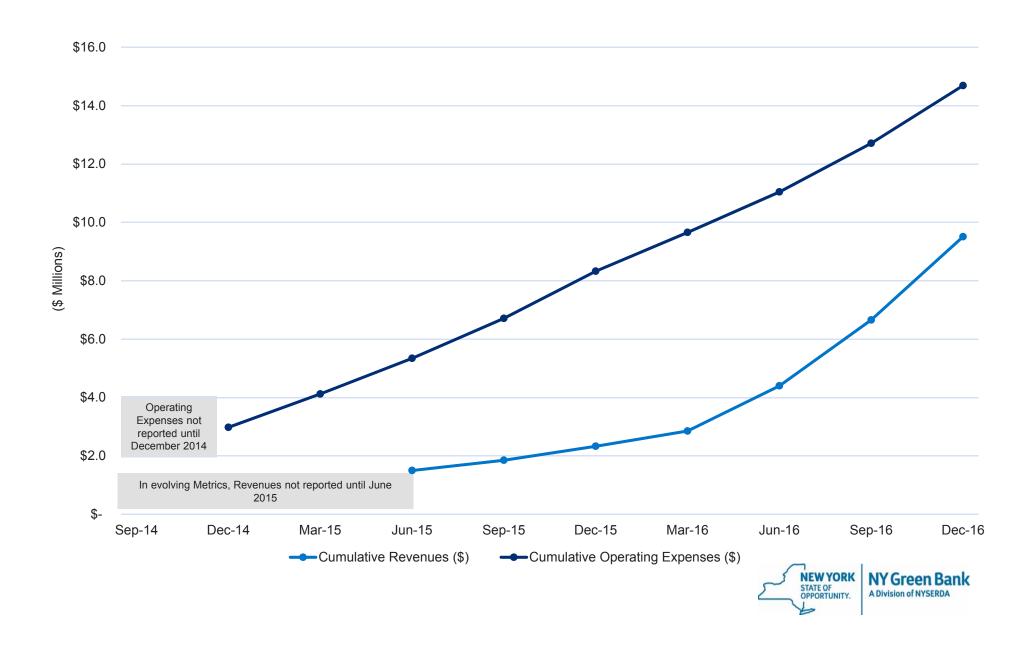
Investment Portfolio



Estimated Lifetime GHG Reductions



Revenues & Expenses



Stay In Touch with NY Green Bank



Stay In Touch with NY Green Bank

Advancing New York's

clean energy investment opportunities

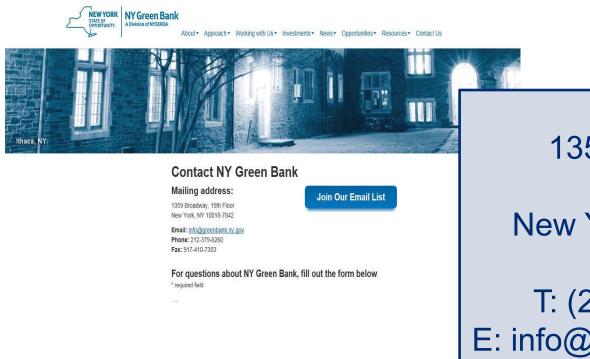




11-16-2016: NY Green Bank Fall 2016 Newsletter
 03-01-2016: NY Green Bank Spring 2016 Newsletter

Stay In Touch with NY Green Bank (cont.)

- Contact us at any time
- Sign up for our mailing list for periodic updates



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Questions

