



Quarterly Metrics Report No. 11 (March 31, 2017) Webinar | May 31, 2017

Agenda

Note: All data included in this quarterly update is current as of March 31, 2017, unless otherwise indicated

- Performance
 - Performance at a Glance As of March 31, 2017
- Investment Activity
 - Transaction Status & Active Pipeline
 - Active Pipeline Technology, Geography & End-Users
 - Q1 2017 Investments
- Objectives, Milestones & Deliverables
 - Overarching Goals, KPIs & Metrics
 - FY 2016 2017 Objectives
 - Progress Against 2016 2017 Plan Deliverables
- Quarterly Metrics

- Trends
 - Pipeline of Investment Opportunities
 - Investment Portfolio
 - Estimated Lifetime GHG Reductions
 - Revenues & Expenses (Cumulative)
 - Revenues & Expenses (Quarterly)
- What's Coming Next?
- Stay In Touch with NY Green Bank
- Questions



Performance



Performance at a Glance – As of March 31, 2017

Strong quarter, closing out very strong FY 2016 - 2017 of clean energy investment in New York State (NYS). NYGB closed **\$292.0 million** of investments in FY 2016 - 2017 – a five-fold increase over FY 2015 - 2016 – resulting in Overall Investments to Date of **\$346.1 million**.

Stimulating New Clean Energy Proposals in the State	Strong Active Pipeline ⁽¹⁾	Driving Material Clean Energy Investments Across NYS	Mobilizing Capital	Revenue Growth Paving the Way to Self- Sufficiency	Contributing to REV, the CEF & CES Objectives
Proposals received for \$2.0 billion in NYGB investment since inception	Active Pipeline of transactions moving towards closing is \$591.7 million	Investments support clean energy projects with total project costs between \$1.0 and \$1.4 billion , based on Overall Investments to Date of \$346.1 million	NYGB's investment portfolio as a whole represents expected mobilization ratio on track at or above 3:1 ; over 10 years on track to meet or exceed 8:1	\$12.9 million in cumulative revenues generated since inception	Estimated lifetime GHG reductions between 4.3 and 6.4 million metric tons, equivalent to removing 50,000 - 70,000 cars off the road for 20 years

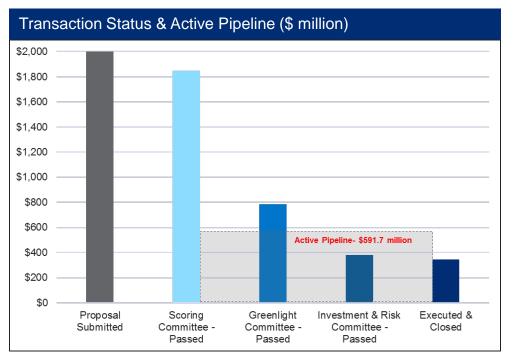
Q1 Metrics Report was filed May 15, 2017, pursuant to the Metrics, Reporting & Evaluation Plan v3.0 and is available at www.greenbank.ny.gov/About/Public-Filings

(1) "Active Pipeline" means, at any time and for any period, the sum (expressed in dollars) of the proposed NYGB investment amount in all NYGB active transactions in the Pipeline where, in relation to each transaction: (a) there is agreement in principle between the parties; (b) there is momentum in moving the transaction forward; (c) conditions to investment are expected to be met; and (d) NYGB is dynamically proceeding towards and through "greenlight" recommendation, IRC approval and transaction execution. Unlike other Metrics that are cumulative measures since NYGB Inception, "Active Pipeline" is a point in time measure. As momentum behind individual transactions fluctuates while advancing towards execution due to various factors, including many not under NYGB's control, transactions may move in and out of the Active Pipeline at any given time.



Investment Activity





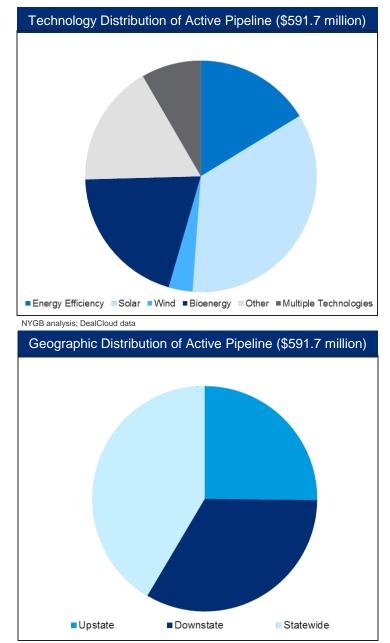
NYGB analysis; DealCloud data

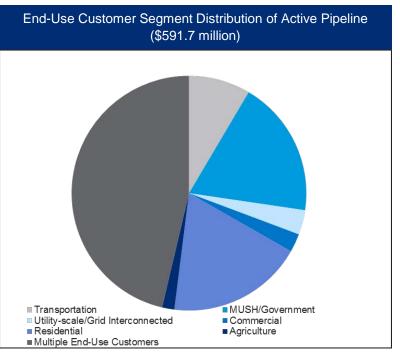
Since inception through March 31, 2017:

- \$2.0 billion of proposals received and evaluated by NYGB's Scoring Committee
- \$1.8 billion of proposals passed Scoring Committee evaluation – representing potential investments that meet NYGB's mandate and proposal evaluation criteria
- Active Pipeline currently \$591.7 million
- \$783.6 million of proposals received Greenlight Committee recommendation for advancement
- \$382.5 million of proposals vetted by the Investment & Risk Committee (IRC) and approved by NYSERDA's President & CEO
- \$346.1 million of transactions closed comprising Overall Investments to Date mobilizing public and private investments to support in the range of \$1.0 to \$1.4 billion in Total Project Costs (Cumulative) for new clean energy deployment in the State



Active Pipeline – Technology, Geography & End-Users





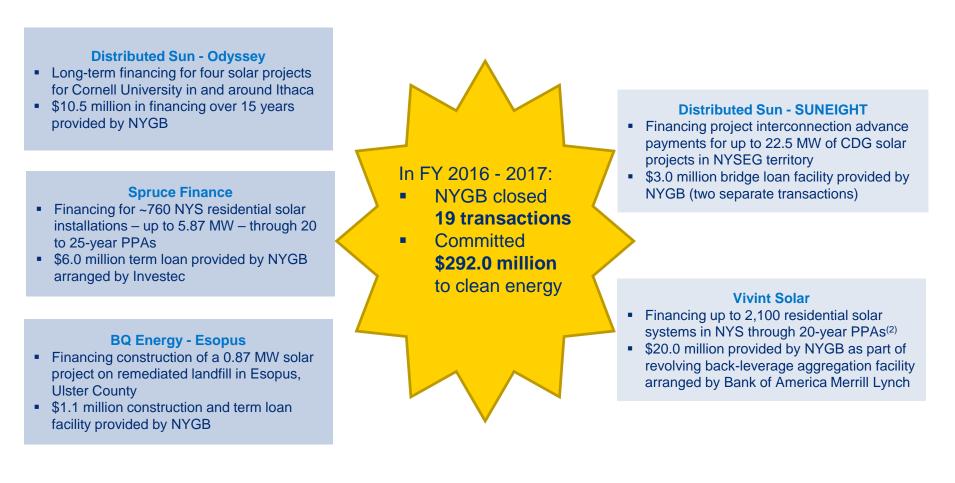
NYGB analysis; DealCloud data



NYGB analysis; DealCloud data

Q1 2017 Investments

In Q1 2017, **six new transactions** were closed, totaling a **\$40.6 million** addition to Overall Investments To Date.⁽¹⁾





Objectives, Milestones & Deliverables



Overarching Goals, KPIs & Metrics

NYGB Goals	Key Performance Indicators	Metrics		
	 Mobilizing capital 	 Mobilization ratio of total project costs to NYGB investment, reported quarterly 		
Attract Private Sector Capital into Clean	 Portfolio driving material clean energy investments across NYS 	 Total Project Costs (Cumulative) (\$) 		
Energy Capital Markets	Growing portfolio	Overall Investments to Date (\$)		
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	 Expenses (cumulative) (\$) 		
 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) 		



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 Capital

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

Drive Toward Self-Sufficiency

NYGB continues to work diligently towards achieving and maintaining self-sufficiency

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

Focus Interest of Syndicates on NYS 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



	Goal	Progress		
Put ratepayer funds to work:Commit \$200.0 million in new investments each year		NYGB has committed \$292.0 million (146% of goal) in FY 2016 - 2017 ending March 31, 2017 with new transactions moving towards close. Current Portfolio is \$344.3 million (\$346.1 million Overall Investments to Date)		
Mobilize capital:	Achieve average mobilization ratio of 3:1, and 8:1 across portfolio by end of CEF in 2025	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		
Drive towards self- sufficiency:	Continue to grow revenues and manage expenses to reach self- sufficiency by 2018	Over \$12.9 million in revenues has been generated since NYGB's inception		
Strong Active Pipeline:	Maintain an Active Pipeline of at least \$300.0 million	Active Pipeline of potential investments proceeding to close is \$591.7 million		
Reduce GHG Emissions:	Contribute to CEF objectives and in turn REV & the CES	Current Portfolio represents up to: 341.0 MW of new clean energy installations in NYS, 9.71 million MWh of clean energy generation, 1.23 million MWh saved, 10.3 million MMBtus saved, and estimated lifetime GHG reductions of between 4.3 and 6.37 million metric tons over the life of underlying projects		



Progress Against 2016 – 2017 Plan Deliverables (cont.)

Category		Deliverable		Status in Quarter Ending March 31, 2017 [End of 2016 – 2017 Plan Year]		
Stro	ong Active Pipeline					
•	Active Pipeline	•	Maintain an Active Pipeline of at least \$300.0 million.	₹	Achieved for this Quarter: Active Pipeline of \$591.7 million . Achieved for the Plan Year: Average Active Pipeline \$588.1 million per quarter.	
•	CRM, Transaction Pipeline & Portfolio Management Infrastructure	•	Implementation of third-party platform, full "go-live".		Achieved for the Plan Year: In December 2016 NYGB and DealCloud launched this customized system and achieved "Go Live". NYGB continues to fully optimize and customize the system to maximize effectiveness, efficiencies and user experience in line with NYGB's growing business and evolving needs.	
Port	tfolio Driving Material Clean Energy	/ Inves	tments Across NYS	I		
•	Committed Funds	•	Commit \$200.0 million to NYGB investments per year, equating to an average of \$50.0 million in closed transactions per quarter.	V	 Achieved for this Quarter: \$40.6 million of closed transactions in the quarter, given an average of \$73.0 million across all four quarters of the Plan Year. Achieved for the Plan Year: In 2016 - 2017 NYGB committed \$292.0 million to new clean energy investments in the State – well in excess of the targeted \$200.0 million. 	
•	Financing Commercial Real Estate & Multi-Family Solar System &/or Energy Efficiency Purchases	•	Publicly issue RFP.		Achieved for the Plan Year: RFP publicly issued and launched in March 2017 and available on NYGB and NYSERDA websites.	
•	Financing Ground-Mounted Solar Systems Targeting Corporate & Industrial End- Users	•	Publicly issue RFP.		Achieved for the Plan Year: RFP publicly issued and launched in March 2017 and available on NYGB and NYSERDA websites.	



Progress Against 2016 – 2017 Plan Deliverables (cont.)

Category	Deliverable	Status in Quarter Ending March 31, 2017 [End of 2016 – 2017 Plan Year]	
Portfolio Driving Material Clean Energy	v Investments Across NYS (cont.)		
 Fund Administration & Loan/Investment Servicing Infrastructure 	 Implementation of third-party platform, full "go-live". 	Achieved for the Plan Year: In January 2017 NYGB and SS&C completed detailed system design and implementation to accommodate all NYGB processes and procedures – as well as reflect all historic data and transactions since inception, including achieving "Go Live". SS&C now represents NYGB's source for fund administration and loan/investment servicing, consistent with industry best practice among comparable public and private funds and financing entities. NYGB is already realizing material efficiencies from implementation of this platform and the creation of more end-to-end processes and reduction of duplicative and/or highly manual activities.	
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: In Summer 2016, the \$150.0 million threshold was met and a further capital installment funded to NYGB pursuant to Commission Order.	
Mobilizing 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 on track at at least 3:1 on average across NYGB's portfolio. Achieved for the Plan Year: Mobilization Ratio across all quarters of the Plan Year consistent with maintaining at least a 3:1 ratio on average across NYGB's portfolio. 	



Quarterly Metrics



Quarterly Metrics are set out below, without footnotes. For complete Metrics and narrative, please see the full Report filed on May 15, 2017 available at <u>www.greenbank.ny.gov/About/Public-Filings</u>

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 (\$) 	\$127.7 million	\$106.2 million		
Operational Matters				
 Cumulative Revenues (\$) 	\$9.6 million	\$12.9 million		
 Cumulative Operating Expenses (\$) 	\$14.7 million	\$16.7 million		
 Direct Operating Expenses (\$) 	\$8.3 million	\$9.5 million		
 Allocated Expenses (\$) 	\$6.4 million	\$7.2 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) (\$)	\$68.4 million	\$85.8 million		
 Deployed Funds (Cumulative) (\$) 	\$235.7 million	\$258.5 million		
 Current Portfolio (\$) 	\$304.1 million	\$344.3 million		
 Overall Investments to Date (\$) 	\$304.7 million	\$346.1 million		
 Total Project Costs (Cumulative) (\$) 	Up to ~\$1.3 billion	In the range of \$1.0 - \$1.43 billion		
Mobilization Ratio	At least 3:1	Tracking at least 3:1 on average across portfolio		
Commitment Ratio (%)	82.5%	99.2%		
Portfolio Concentrations (%)	72.0% Renewable Energy	75.0% Renewable Energy		
	17.0% Energy Efficiency	15.0% Energy Efficiency		
	12.0% Other	11.0% Other		
		NEW YORK NY Green Bank		

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Quarterly Metrics (cont.)

	Quarterly Metric	Prior Quarter	Current Quarter
•	Number & Type of NYGB Investments	10 – Renewable Energy	16 – Renewable Energy
		6 – Energy Efficiency	6 – Energy Efficiency
		2 – Other	2 – Other
•	Number & General Type of NYGB Counterparties	41 – Local Development Corporation; Global	45 – 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; Municipal, University, Schools &	Developers; Municipal, University, Schools &
		Hospitals; Energy Technology Provider &	Hospitals; Energy Technology Provider &
		Vendors; Government Authority	Vendors; Government Authority; Insurance
			Companies
		1	1
•	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	1.1 – 1.2 million MWh; and	1.12 – 1.23 million MWh; and
	Funds & Deployed Funds	9.4 – 10.3 million MMBtu	9.43 – 10.3 million MMBtu
		Estimated Gross Lifetime Clean Energy	Estimated Gross Lifetime Clean Energy
		Generated:	Generated:
		4.7 – 7.9 million MWh	5.89 – 9.71 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	90,000 – 97,000 MWh; and	89,400 – 97,500 MWh; and
	Committed Funds & Deployed Funds	800,000 – 870,000 MMBtu	801,000 – 873,000 MMBtu
		Estimated Gross First Year Clean Energy	Estimated Gross First Year Clean Energy
		Generated:	Generated:
		210,000 – 340,000 MWh	256,000 – 413,000 MWh
•	Estimated Gross Lifetime Energy Saved from CHP (MWh) for	Estimated Gross Lifetime Energy Saved from	Estimated Gross Lifetime Energy Saved from
	Committed Funds & Deployed Funds	CHP:	CHP:
		7,100 – 8,600 MWh	7,070 – 8,640 MWh
•	Estimated Gross First Year Energy Saved from CHP (MWh) for	Estimated Gross First Year Energy Saved	Estimated Gross First Year Energy Saved
	Committed Funds & Deployed Funds	from CHP:	from CHP:
		290 - 360 MWh	293 - 358 MWh



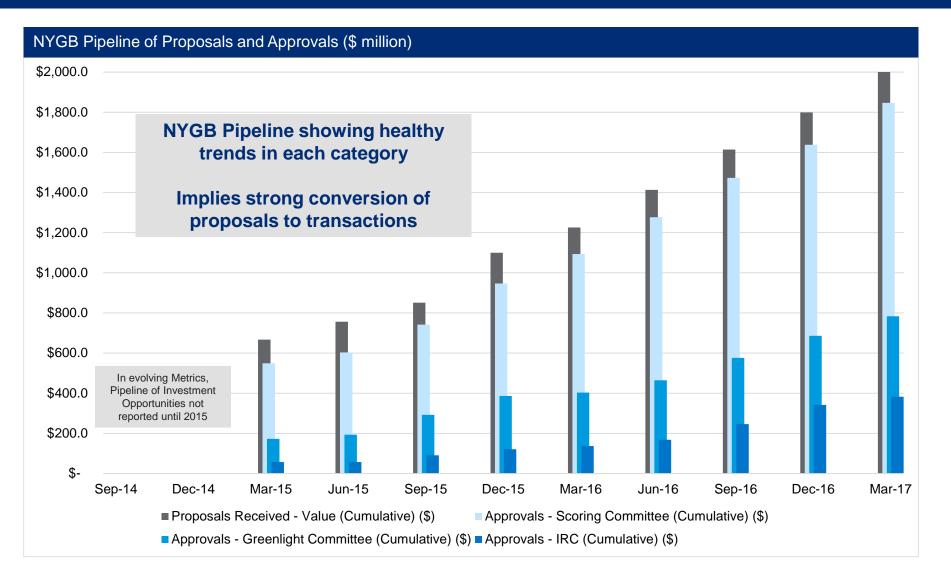
	Quarterly Metric	Prior Quarter	Current Quarter
•	Estimated Gross Lifetime Energy Savings from CHP (MMBtu)	Estimated Gross Lifetime Energy Savings	Estimated Gross Lifetime Energy Savings
	for Committed Funds & Deployed Funds	from CHP:	from CHP:
		-(41,000 – 50,000) MMBtu	-(41,000 – 50,100) MMBtu
•	Estimated Gross First Year Energy Savings from CHP	Estimated Gross First Year Energy Savings	Estimated Gross First Year Energy Savings
	(MMBtu) for Committed Funds & Deployed Funds	from CHP:	from CHP:
		-(1,700 – 2,100) MMBtu	-(1,700 – 2,070) MMBtu
•	Estimated Gross Clean Energy Generation Installed Capacity	1.6 MW	1.6 MW
	from CHP (MW), if applicable, for Committed Funds &		
	Deployed Funds		
•	Estimated Gross Clean Energy Generation Installed Capacity	173.2 – 279.2 MW	217.0 – 341.0 MW
	(MW), if applicable, for Committed Funds & Deployed Funds		
•	Estimated Gross Lifetime GHG Emission Reductions (metric	3.5 – 5.4 million metric tons	4.26 – 6.37 million metric tons
	tons) for Committed Funds & Deployed Funds		
Inve	stment Pipeline		
	Active Pipeline (In the Quarter) (\$)	\$597.7 million	\$591.7 million
		400	Ç
Inve	stment Process		
•	Proposals Received – Value (Cumulative) (\$)	\$1.8 billion	\$2.0 billion
•	Approvals - Scoring Committee (Cumulative) (\$)	\$1.6 billion	\$1.8 billion
•	Approvals - Greenlight Committee (Cumulative) (\$)	\$686.1 million	\$783.6 million
•	Approvals - IRC (Cumulative) (\$)	\$342.1 million	\$382.5 million





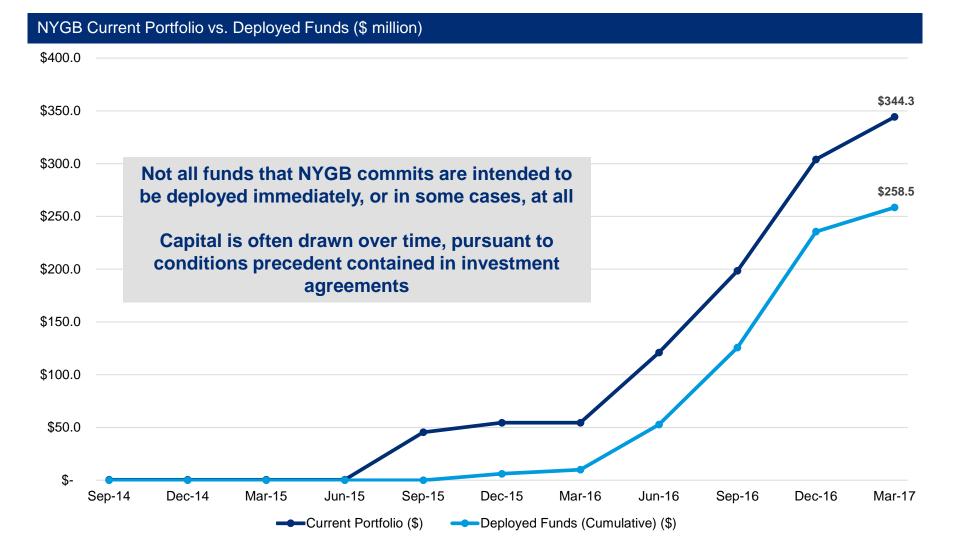


Pipeline of Investment Opportunities





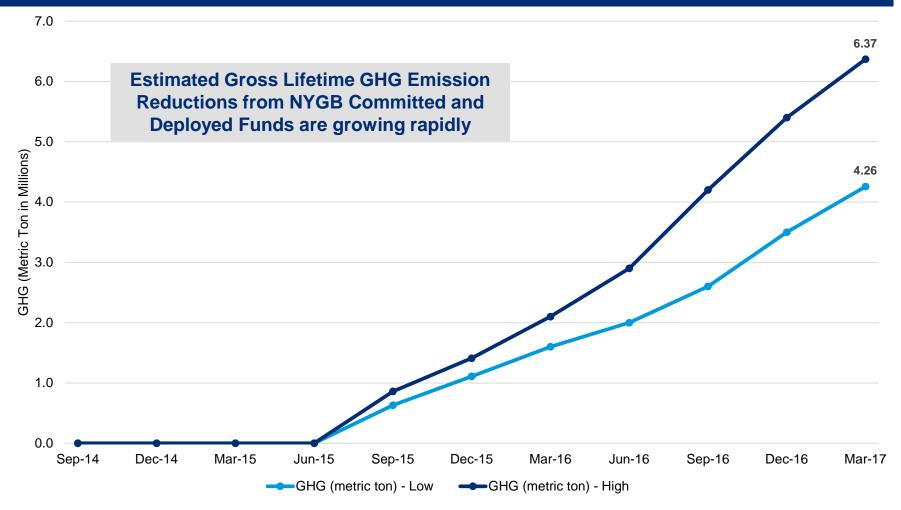
Investment Portfolio





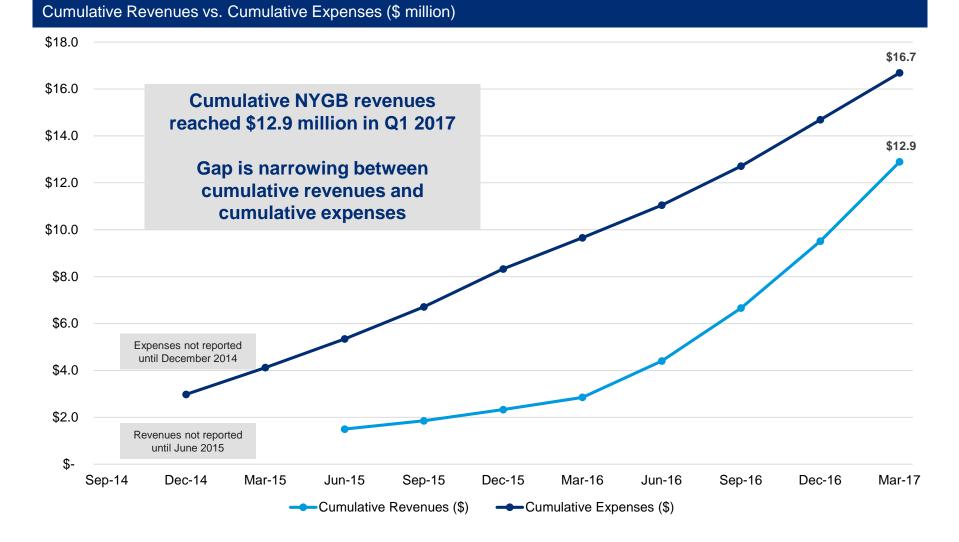
Estimated Lifetime GHG Reductions

Estimated Gross Lifetime GHG Emission Reductions for Committed Funds & Deployed Funds (Metric Ton in millions)





Revenues & Expenses (Cumulative)





Revenues & Expenses (Quarterly)

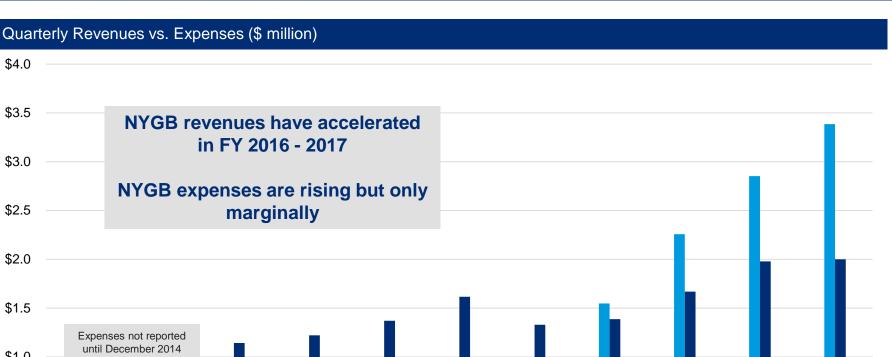
\$4.0

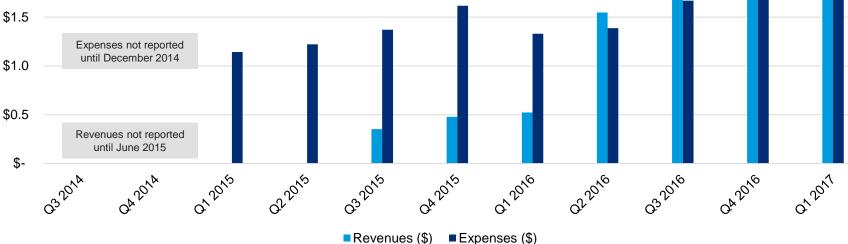
\$3.5

\$3.0

\$2.5

\$2.0







What's Coming Next?



- Annual Business Planning Process
 - Well underway will culminate in filing of NYGB's Annual Business Plan for FY 2017-18 with the PSC on June 19, 2017
- Annual Financial Metrics Report
 - To be filed with the PSC on June 29, 2017
- Annual Audited Financial Statements
 - Currently being prepared and finalized. Will be incorporated in the Annual Financial Metrics Report and separately published on NYGB's website
- Next Quarterly Report
 - For the quarter ending June 30, 2017. Will be filed with the PSC on August 14, 2017



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All information available on the website: www.greenbank.ny.gov



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Questions

