



Quarterly Metrics Report No. 12 (June 30, 2017) Webinar | August 29, 2017

Agenda

Note: All data included in this quarterly update is current as of June 30, 2017, unless otherwise indicated

- Performance
 - Performance at a Glance As of June 30, 2017
- Investment Activity
 - Transaction Status & Active Pipeline
 - Active Pipeline Technology, Geography & End-Users
 - Q2 2017 Investments
- Objectives, Milestones & Deliverables
 - Overarching Goals, KPIs & Metrics
 - FY 2017 18 Objectives
 - Progress Against FY 2017 18 Objectives
 - Progress Against FY 2017 18 Plan Deliverables

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



Performance



Performance at a Glance – As of June 30, 2017

Strong first quarter of FY 2017 – 18. NYGB closed **\$63.3 million** of new clean energy investments in New York State (NYS), exceeding its goal of **\$50.0 million** per quarter and putting it on pace to achieve its objective of **\$550.0 million** of cumulative investments by the end of FY 2017 – 18.

Stimulating New Clean Energy Proposals in the State	Strong Active Pipeline ⁽¹⁾	Driving Material Clean Energy Investments Across NYS	Mobilizing Capital	Revenue Growth Maintaining Self-Sufficiency	Contributing to CEF Objectives, REV & the CES
Proposals received for \$2.1 billion in NYGB investment since inception	Active Pipeline of transactions moving towards closing is \$588.3 million	Investments support clean energy projects with total project costs between \$1.2 and \$1.4 billion , based on Overall Investments to Date of \$409.4 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	\$17.8 million in cumulative revenues generated since inception, including \$4.9 million in Q2 2017 alone	Estimated lifetime GHG reductions between 4.3 and 5.8 million metric tons, equivalent to removing 51,300 – 65,300 cars off the road for 20 years

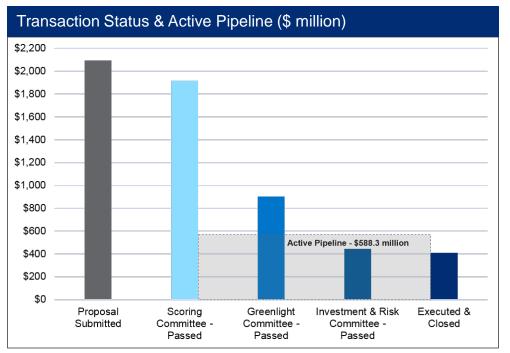
Q1 Metrics Report was filed August 14, 2017, pursuant to the Metrics, Reporting & Evaluation Plan v3.0 and is available at www.greenbank.ny.gov/About/Public-Filings

(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





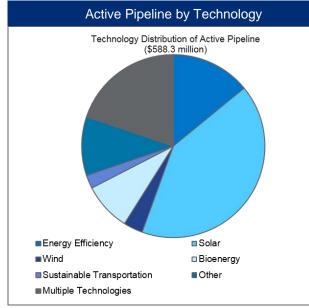
NYGB analysis; DealCloud data

Since inception through June 30, 2017:

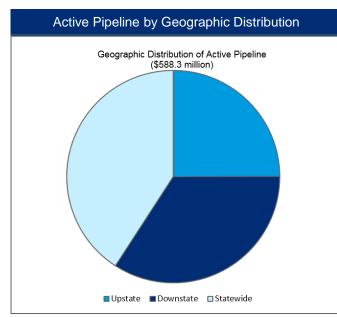
- \$2.1 billion of proposals received and evaluated by NYGB's Scoring Committee
- \$1.9 billion of proposals passed Scoring Committee evaluation – representing potential investments that meet NYGB's mandate and proposal evaluation criteria
- Active Pipeline currently \$588.3 million
- \$904.5 million of proposals received Greenlight Committee recommendation for advancement
- \$445.8 million of proposals vetted by the Investment & Risk Committee (IRC) and approved by NYSERDA's President & CEO
- \$409.4 million of transactions closed comprising Overall Investments to Date mobilizing public and private investments to support in the range of \$1.2 to \$1.4 billion in Total Project Costs (Cumulative) for new clean energy deployment in the State

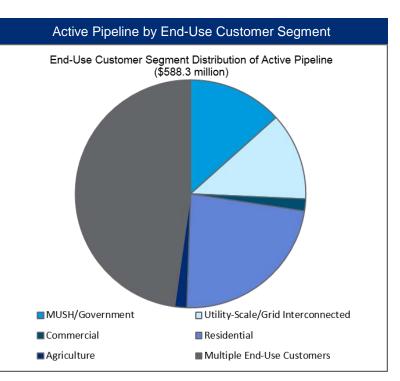


Active Pipeline – Technology, Geography & End-Users



NYGB analysis; DealCloud data





NYGB analysis; DealCloud data



NYGB analysis; DealCloud data

Q2 2017 Investments

In Q2 2017, NYGB closed **two new transactions**, totaling a **\$63.3 million** addition to Overall Investments To Date.⁽¹⁾

Sunrun Inc.

- Financing expansion of Sunrun's residential solar business in NYS
- Increases renewable energy installed generation capacity by 7.0 MW
- \$15.0 million in post-construction financing provided by NYGB toward a \$202.0 million aggregation-to-term loan facility

Motivate International Inc.

- Financing addition of 2,000 bikes in low-tomoderate (LMI) neighborhoods to Citi Bike's existing fleet of 10,000 bikes across 600 stations in NYC
- Reduces up to 32,500 metric tons of GHG emissions over a seven-year useful life
- \$43.3 million term loan and \$5.0 million seasonal variable funding note provided by NYGB

Objectives, Milestones & Deliverables



Overarching Goals, KPIs & Metrics

NYGB Goals	Key Performance Indicators	Metrics			
	 Mobilizing capital 	 Mobilization Ratio of Total Project Costs (Cumulative) to NYGB investment 			
Attract Capital to Clean	 Portfolio driving material clean energy investments across NYS 	 Total Project Costs (Cumulative) enabled by NYGB (\$) 			
Energy Capital Markets	Growing portfolio	 Overall Investments to Date (\$) 			
	Strong Active Pipeline	Active Pipeline (\$)			
	 Stimulating new clean energy proposals in NYS 	 Investment proposals received (cumulative) (\$) 			
	r				
Be Self-Sufficient	 Revenue growth paving the way to self-sufficiency 	 Revenues (cumulative) (\$) Expenses (cumulative) (\$) 			
Deliver Energy & Environmental Impact Benefits	 Contributing to CEF objectives and in turn REV & the CES (by supporting increased deployment of renewable energy, distributed energy & energy efficiency) 	 Estimated energy and environmental benefits: Lifetime energy saved by fuel type from energy efficiency projects (MWh/MMBtu) and/or Lifetime clean energy generated (MWh); First-Year energy saved by fuel type from energy efficiency projects (MWh/MMBtu) and/or estimated First- Year clean energy generated (MWh); Lifetime and First-Year energy saved from CHP (MWh); Lifetime and First-Year energy savings from CHP (MMBtu); Clean energy generation installed capacity (MW) from CHP; 			



Overarching Goals, KPIs & Metrics (cont.)

NYGB Goals	Key Performance Indicators	Metrics
Deliver Energy & Environmental Impact Benefits (cont.)	 Contributing to CEF objectives and in turn REV & the CES (by supporting increased deployment of renewable energy, distributed energy & energy efficiency) (cont.) 	 Estimated energy and environmental benefits (cont.): Other clean energy generation installed capacity (MW); and GHG emissions reductions (metric tons); and Installed energy and environmental benefits: 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; and GHG emissions reductions (metric tons).



NYGB's Annual Review 2016 – 17 and Annual Business Plan 2017 – 18 defined three primary objectives:

Put Ratepayer Money to Work

Commit \$550.0 million (cumulative) to NYGB investments over the fiscal year ending March 31, 2018, with an average of \$50.0 million in closed transactions per quarter.

Mobilize Capital

Maintain an average, portfolio-wide Mobilization Ratio of at least 3:1 (the ratio of Total Project Costs (Cumulative) to NYGB Overall Investments to Date), driving towards a ratio of at least 8:1 across all NYGB investments by the end of the CEF term in 2025.

Maintain Self-Sufficiency

Continue to grow revenues and manage expenses to maintain selfsufficiency and generate net income.

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

Build & Mair Pipe			& Expense gets		Performance npact	to Invest in	bilize Capital NYS Clean ergy		e Market & ler Outreach
	Cultivate Op Related to Progran Initia	New State	Grow Impa	ct Benefits	Baseline Ev the Investme	aluations of ent Portfolio	Attract & Require		
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	Objective	Progress
Put ratepayer money to work:	Commit \$550.0 million (cumulative) to NYGB investments by fiscal year end March 31, 2018	NYGB has committed \$63.3 million in the first quarter of FY 2017 – 18 (\$409.4 million in Overall Investments to Date), putting it at 74.4% of goal for the current fiscal year.
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 on average and is on track to achieve an 8:1 mobilization ratio by 2025, including through recycling capital for investment in new transactions
Maintain self- sufficiency	Continue to grow revenues and manage expenses to maintain self- sufficiency	\$17.8 million in revenues has been generated since NYGB's inception, including \$4.9 million in Q2 2017
Strong Active Pipeline:	Maintain an Active Pipeline of at least \$300.0 million	Active Pipeline of potential investments proceeding to close is \$588.3 million
Reduce GHG Emissions:	Contribute to CEF objectives and in turn REV & the CES	Current Portfolio represents up to: 300.0 MW of new clean energy installations in NYS, 8.52 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 5.8 million metric tons over the life of underlying projects



Progress Against FY 2017 – 18 Plan Deliverables

	Category		Deliverable	Status in Quarter Ending June 30, 2017
Stro	ong Active Pipeline			
•	Active Pipeline	-	Maintain an Active Pipeline of at least \$300.0 million on average throughout the year.	Achieved for this Quarter: Active Pipeline of \$588.3 million.
•	Streamline Investment Proposal Submission Process and Data Collection	•	Create an online portal for submission of Investment RFPs to NYGB with straight-through processing and data collection in NYGB's CRM system to make management and reporting tools more efficient and effective.	Achieved for this Quarter: In May 2017 NYGB launched the online portal for submission of Investment RFPs to NYGB.
Por	folio Driving Material Clean Energy	v Inves	stments Across NYS	
•	Committed Funds	•	Commit \$550.0 million (cumulative) to NYGB investments, equating to an average of \$50.0 million in closed transactions per quarter.	Achieved for this Quarter: \$63.3 million of closed transactions in the quarter.
•	Issue CDG RFP	•	Publicly Issue RFP.	Not Started: NYGB is due to start this activity in Q3 2017.
•	Issue Interconnection Bridge Loan RFP	•	Publicly issue RFP.	Not Started: NYGB is due to start this activity in Q3 2017.
•	Perform Initial Evaluation Activities	•	Engage with independent evaluators to conduct baseline assessments for both financial market transformation and energy and environmental impact of NYGB's Investment Portfolio.	Ongoing & On Track: NYGB is developing the Baseline Evaluation Plan with NYSERDA Performance & Market Standards group and in consultation with DPS. Evaluation of NYGB's Portfolio by independent third-party evaluators is expected to commence in Q4 2017.
Mot	bilizing 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 on track at least 3:1 on average across NYGB's portfolio.



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13

Quarterly Metrics



Quarterly Metrics are set out below, without footnotes. For complete Metrics and narrative, please see the full Report filed on August 14, 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 billior
 Authorized Administrative Expenses (\$) 	\$17.5 million	\$17.5 millior
 Authorized Evaluation Expenses (\$) 	\$4.0 million	\$4.0 millior
Operational Matters		
Cumulative Revenues (\$)	\$12.9 million	\$17.8 million
 Cumulative Operating Expenses (\$) 	\$16.7 million	\$19.0 million
 Direct Operating Expenses (\$) 	\$9.5 million	\$10.8 millior
 Allocated Expenses (\$) 	\$7.2 million	\$8.1 millior
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
		1
Investment Portfolio		1
Committed Funds (Cumulative) (\$)	\$85.8 million	\$76.7 million
 Deployed Funds (Cumulative) (\$) 	\$258.5 million	\$320.0 millior
Current Portfolio (\$)	\$344.3 million	\$396.6 millior
Overall Investments to Date (\$)	\$346.1 million	\$409.4 millior
 Total Project Costs (Cumulative) (\$) 	In the range of \$1.0 - \$1.43 billion	In the range of \$1.2 - \$1.4 billior
Mobilization Ratio	Tracking at least 3:1 on average across	Tracking at least 3:1 on average across
	portfolio	portfolic
Portfolio Concentrations (%)	75.0% Renewable Energy	66.8% Renewable Energy
	15.0% Energy Efficiency	12.3% Energy Efficiency
	11.0% Other	20.9% Other
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OPPORTUNITY.

Quarterly Metrics (cont.)

	Quarterly Metric	Prior Quarter	Current Quarter					
Inve	Investment Portfolio (cont.)							
•	Number & Type of NYGB Investments	16 – Renewable Energy	17 – Renewable Energy					
		6 – Energy Efficiency	6 – Energy Efficiency					
		2 – Other	3 – Other					
•	Number & General Type of NYGB Counterparties	45 – Local Development Corporation; Global	46 – Local Development Corporation; Global,					
		Corporate & Investment Banks;	Corporate and/or Investment Bank; Regional Bank;					
		Commercial/Regional Banks; Specialty Finance	Specialty Finance Company; Energy Project					
		Company; Energy Project Developers; Municipal,	Developer; Municipal, University, Schools &					
		University, Schools & Hospitals; Energy Technology	Hospitals; Energy Technology Provider & Vendors;					
		Provider & Vendors; Government Authority	Government Authority; Insurance Company					
•	Estimated Gross Lifetime Energy Saved by Fuel	Estimated Gross Lifetime Energy Saved by Fuel	Estimated Gross Lifetime Energy Saved by Fuel					
	Type from Energy Efficiency Projects	Type (Energy Efficiency):	Type (Energy Efficiency):					
	(MWh/MMBtu) and/or Estimated Gross Lifetime	1.12 – 1.23 million MWh; and	1.12 – 1.23 million MWh; and					
	Clean Energy Generated (MWh) for Committed	9.43 – 10.3 million MMBtu	9.43 – 10.3 million MMBtu					
	Funds & Deployed Funds	Estimated Gross Lifetime Clean Energy Generated:	Estimated Gross Lifetime Clean Energy Generated:					
		5.89 – 9.71 million MWh	5.96 – 8.52 million MWh					
•	Estimated Gross First Year Energy Saved by Fuel	Estimated Gross First Year Energy Saved by Fuel	Estimated Gross First Year Energy Saved by Fuel					
	Type from Energy Efficiency Projects	Type (Energy Efficiency):	Type (Energy Efficiency):					
	(MWh/MMBtu) and/or Estimated Gross First Year	89,400 – 97,500 MWh; and	89,400 – 97,500 MWh; and					
	Clean Energy Generated (MWh) for Committed	801,000 – 873,000 MMBtu	801,000 – 873,000 MMBtu					
	Funds & Deployed Funds	Estimated Gross First Year Clean Energy	Estimated Gross First Year Clean Energy					
		Generated:	Generated:					
		256,000 – 413,000 MWh	258,000 – 366,000 MWh					
•	Estimated Gross Lifetime Energy Saved from CHP	Estimated Gross Lifetime Energy Saved from CHP:	Estimated Gross Lifetime Energy Saved from CHP:					
	(MWh) for Committed Funds & Deployed Funds	7,070 – 8,640 MWh	7,070 – 8,640 MWh					
•	Estimated Gross First Year Energy Saved from	Estimated Gross First Year Energy Saved from	Estimated Gross First Year Energy Saved from					
	CHP (MWh) for Committed Funds & Deployed	CHP:	CHP:					
	Funds	293 - 358 MWh	293 – 358 MWh					



Quarterly Metrics (cont.)

	Quarterly Metric	Prior Quarter	Current Quarter
Inve	stment Portfolio (cont.)		
•	Estimated Gross Lifetime Energy Savings from	Estimated Gross Lifetime Energy Savings from CHP:	Estimated Gross Lifetime Energy Savings from
	CHP (MMBtu) for Committed Funds & Deployed	-(41,000 – 50,100) MMBtu	CHP:
	Funds		-(41,000 – 50,100) MMBtu
•	Estimated Gross First Year Energy Savings from	Estimated Gross First Year Energy Savings from	Estimated Gross First Year Energy Savings from
	CHP (MMBtu) for Committed Funds & Deployed	CHP:	CHP:
	Funds	-(1,700 – 2,070) MMBtu	-(1,700 – 2,070) MMBtu
•	Estimated Gross Clean Energy Generation	1.6 MW	1.6 MW
	Installed Capacity from CHP (MW), if applicable,		
	for Committed Funds & Deployed Funds		
•	Estimated Gross Clean Energy Generation	217.0 – 341.0 MW	220.0 – 300.0 MW
	Installed Capacity (MW), if applicable, for		
	Committed Funds & Deployed Funds		
•	Estimated Gross Lifetime GHG Emission	4.26 – 6.37 million metric tons	4.32 – 5.77 million metric tons ¹
	Reductions (metric tons) for Committed Funds &		
	Deployed Funds		
Inve	estment Pipeline		
	Active Pipeline (In the Quarter) (\$)	\$591.7 million	\$588.3 million
		400 I.7 IIIII0II	\$500.5 million
Inve	estment Process		
•	Proposals Received – Value (Cumulative) (\$)	\$2.0 billion	\$2.1 billion
•	Approvals - Scoring Committee (Cumulative) (\$)	\$1.8 billion	\$1.9 billion
•	Approvals - Greenlight Committee (Cumulative) (\$)	\$783.6 million	\$904.5 million
•	Approvals - IRC (Cumulative) (\$)	\$382.5 million	\$445.8 million

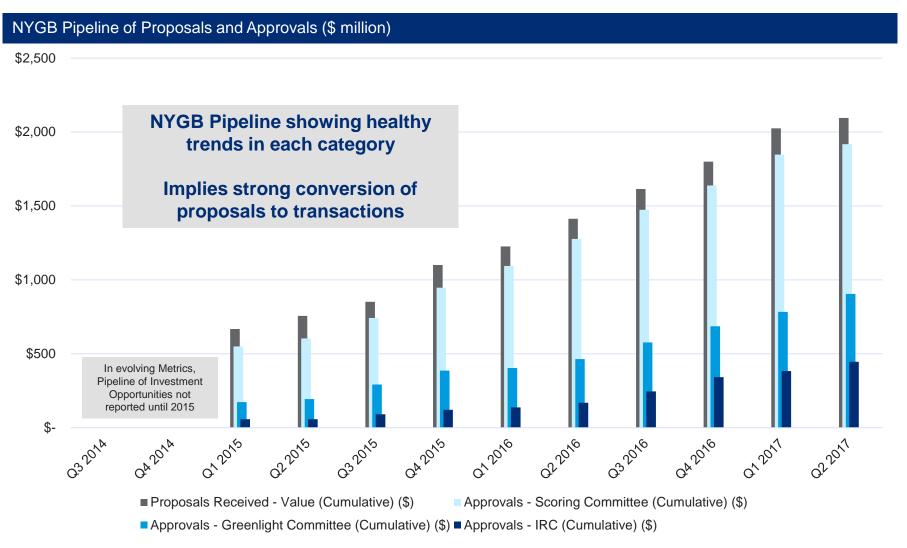
(1) NYGB monitors its counterparties' clean energy project installations throughout the duration of each investment through the receipt and review of periodic reports. Based on information received, NYGB continually manages the actual and expected energy and environmental benefits across its overall portfolio. As new information becomes available informing NYGB of NYS market uptake of clean energy projects, NYGB may correspondingly adjust (up or down) the overall portfolio's high and low estimated Total Project Costs and energy and environmental metrics (identified at closing of each investment, working with the relevant clients and counterparties and reflected in Transaction Profiles). This constant monitoring and refinement of expected outcomes improves the accuracy of NYGB's overall portfolio level estimations of impact benefits as it works towards meeting the CEF objectives to support the NYS CES and SEP goals. Given such periodic adjustments, the aggregate estimated benefits reported in Quarterly Reports will be the most up-to-date and accurate estimate, and so no longer will reflect the sum of the low and high estimated benefits specified in the Transaction Profiles at the time of each transaction close.







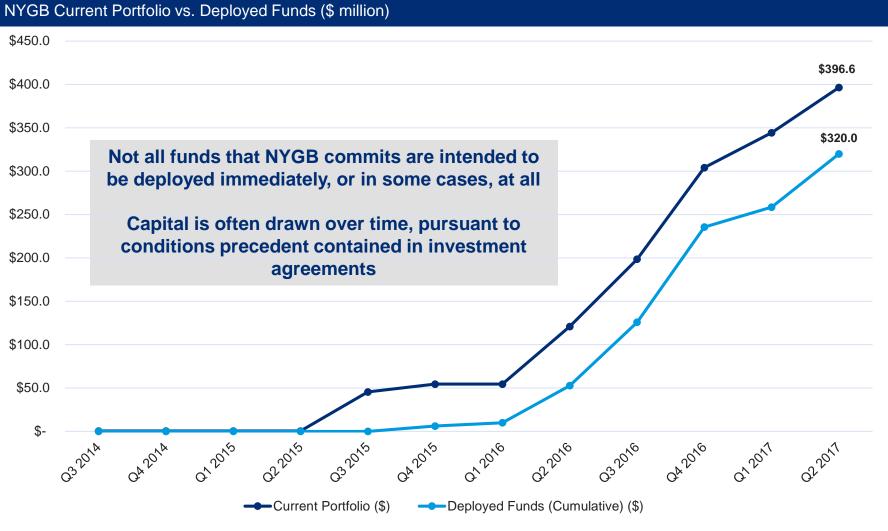
Pipeline of Investment Opportunities



NYGB analysis; DealCloud data



Investment Portfolio

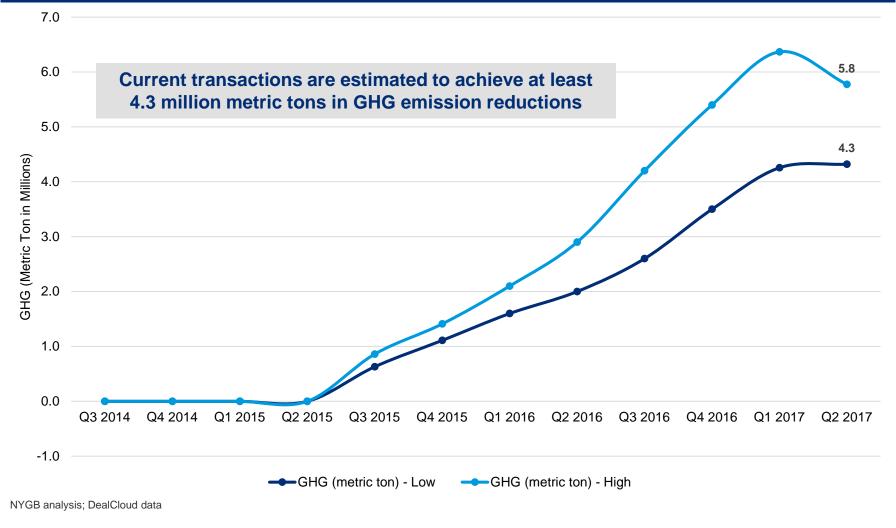


NYGB analysis; SS&C data



Estimated Lifetime GHG Emission Reductions

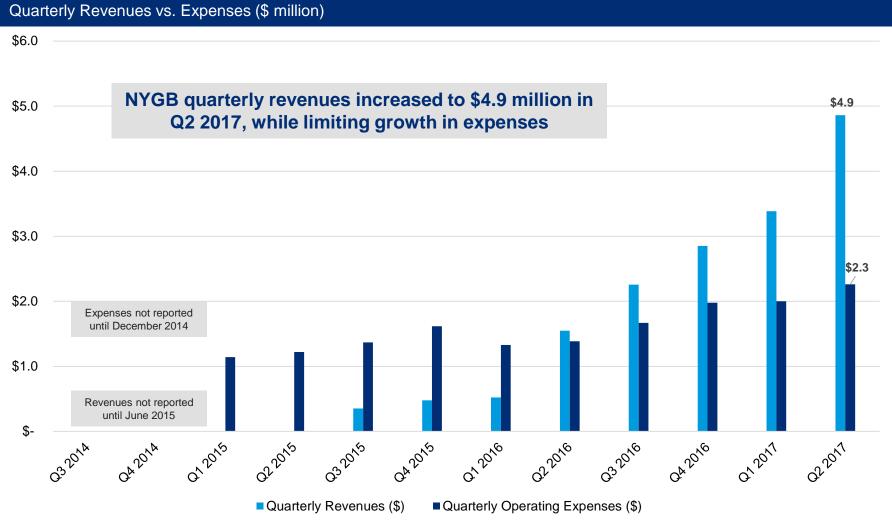
Estimated Gross Lifetime GHG Emission Reductions for Committed Funds & Deployed Funds (Metric Tons in millions)





Revenues & Expenses (Quarterly)

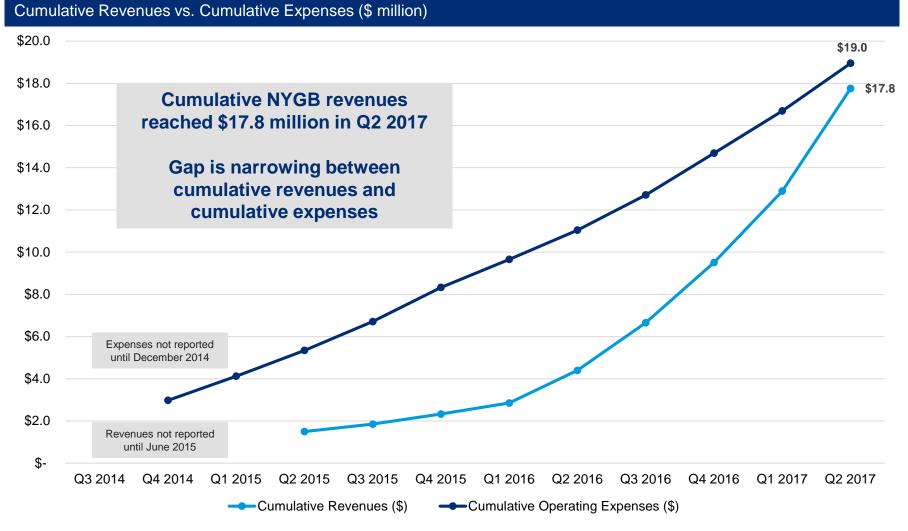
22



NYGB analysis; SS&C data



Revenues & Expenses (Cumulative)



NYGB analysis; SS&C data



What's Coming Next?



Green Bank Summit

- NY Green Bank will co-host the next annual international Green Bank Summit held in New York City during Climate Week between September 18 – 22, 2017.
- Further information and registration available at <u>www.greenbanknetwork.org/2017-green-bank-congress/</u>
- CEF Annual Report
 - The CEF Annual report will contain information related to the "cumulative progress" for impact benefits realized as a result of NYGB's portfolio of investments. This report will be filed with the PSC on November 1, 2017 by NYSERDA
- Next Quarterly Report
 - For the quarter ending September 30, 2017. Will be filed with the PSC on November 14, 2017



Stay In Touch with NY Green Bank



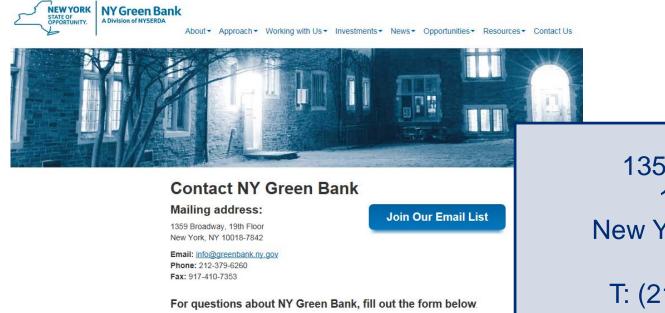
Stay In Touch with NY Green Bank

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



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- Contact us at any time
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Questions

