

The City of New York

Prepared by:
Mayor's Office of Operations
Office of Environmental Coordination



Introduction

Local Law 86 of 2005 (LL86), also known as New York City (NYC)'s Green Building Law, covers work in most major building construction projects that receive funding over certain threshold amounts from the City. Construction in all occupancy groups is covered by the law with the exception of residential, industrial, high hazard, and outdoor assembly. For covered projects, the requirements of the law fall into the following six basic categories: (i) work with a construction cost over \$2 million that involves one or more new buildings, additions, or substantial reconstructions of existing buildings requires the achievement of at least a Leadership in Energy & Engineering Design 2009 (LEED®) Silver rating level with the exception of projects in educational and certain health related occupancies that must achieve at least a LEED® Certified rating level; (ii) a certain number of projects that are required to achieve a specific LEED® rating must apply to the United States Green Building Council (USGBC) for certification of the level achieved; (iii) projects that are required to achieve a specific LEED® rating level and that have a construction cost over \$12 million must reduce energy cost by a minimum of 20-30% depending on the payback of feasible energy efficiency measures and building occupancy; (iv) all other types of covered projects that involve boilers, lighting, as well as heating, ventilation, and air conditioning (HVAC) comfort controls work must reduce energy cost by a minimum of 5-10% depending on the type and cost of such work; (v) all covered projects that involve domestic plumbing work with construction costs over \$0.5 million must reduce potable water use by a minimum of at least 30% unless an application for waterless urinals has been rejected by the NYC Department of Buildings (DOB); and lastly, (vi) the law requires the preparation of a report each year, starting in 2008.

This is the fourth annual report that has been prepared to satisfy the law's reporting requirement. Projects included herein are those that are subject to or have been complying with LL86 requirements and that received initial authorization from the Mayor's Office of Management and Budget (OMB) to spend city funds by the end of the Fiscal Year (FY) 2011 (June 30, 2011). The current report includes projects that are in various stages of design and construction as well as those completed before the end of FY 2011. In addition to describing various attributes of projects, such as the expected year of completion, project cost, and the agencies involved, this report includes the construction cost of work subject to the requirements of LL86. Available data regarding the costs and benefits of LL86 compliance is also reported for many projects that have completed design. Note that all data included in this report may be updated in later reports and was reported to the Mayor's Office of Environmental Coordination (MOEC) by city agencies in accordance with the guidelines developed by MOEC to satisfy the law's reporting requirements.

It is also important to note that, since the report for FY 2010 was released, Mayor Bloomberg issued Executive Order (EO) 149 of 2011. EO 149 added to the responsibilities of the Director of MOEC the authority to periodically review and increase the stringency and applicability of requirements in the LL86 Rules in order to align them with current best practices in the green construction industry. Such updates will ensure that (i) NYC government continues to lead by example in this area; (ii) that LL86 requirements remain more stringent, where feasible, than analogous requirements in the NYC building code; and (iii) that LL86 projects continue to create precedents that inform and support current and future green building initiatives.

Further information regarding the law's administration, background, and provisions as well as the reports for FY 2008 through FY 2010 may be found at www.nyc.gov/oec.

Projects Subject to LL86

To summarize, a total of 62 projects subject to LL86 were authorized by OMB to spend city funds between January 1, 2007, when the law took effect, and the end of FY 2011. Of these 62 projects, which account for total project costs of \$3,143,193,535, 53 are subject to LEED® rating level provisions, and nine are subject to System Specific Energy Cost Reductions. Further details follow:

LEED® Rating Level Projects. There are 53 projects with construction costs of \$2,450,159,528 and a combined floor area of 4,022,417 square feet (sf), which are subject to the LEED® rating level provisions in the law. Of these 53 projects, 48 require a minimum of a LEED® Silver rating level, and five require a minimum of a LEED® Certified rating level. The combined construction

costs of projects that have construction costs of \$12 million or more and that are therefore also subject to one of the 20-30% energy cost reduction requirements, is \$2,289,593,411 and represents 28 of the 53 projects.

System Specific Energy Cost Reduction Projects (Projects not subject to LEED® Rating Level provisions). There are nine projects that are subject to the boiler, lighting, and HVAC comfort controls energy cost reduction requirements. One of these involves work related to boilers, three involve work related to lighting, and five involve work related to HVAC comfort controls. Together they have aggregate construction costs of \$56,271,435.

Potable Water Use Reduction Projects. 24 projects subject to the LEED® rating level requirement are also subject to the potable water use reduction requirement in LL86. They represent \$51,132,303 worth of domestic plumbing work. There are no projects subject to only the potable water use reduction requirement.

Completed Projects. Since the report for FY 2010, which identified 28 completed projects, four projects subject to LL86 LEED® rating level provisions and four projects subject to the various system specific requirements were completed (of which two are SCA LL86 projects). This brings the total number of projects subject to LL86 that have been completed since 2007 to 36.

Project Exemptions. Prior to FY 2011, three projects - the Sephardic Community Center, the YMCA Arverne project, and the Whitney Museum at Gansevoort Street - had applied for and received exemptions from one or more LL86 requirements. Since the report for FY 2010, no projects applied for a whole or partial exemption from any LL86 requirement. However, the Whitney Museum at Gansevoort Street, which had received a partial exemption from one of the LEED® project energy cost reduction requirements in FY 2010, withdrew its application following a redesign and subsequent analysis demonstrating it could now satisfy all applicable LL86 requirements (this project is not shown in Table 1, "Projects Subject to LL86", because no Certificate to Proceed has been approved by OMB).

Table 1, "Projects Subject to LL86", shows projects subject to LL86 that are in various stages of design and construction as well as those that were completed by the end of FY 2011. Further, note that data in this report were supplied to MOEC by the managing agencies (i.e., those agencies managing contracts for the expenditure of city funds) and may change as projects proceed toward completion.

Table 1 - Projects Subject to LL86, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs				Compliance Costs and Benefits						LEED Rating Level and Certification Achieved		
Primary Budgeting Agency ³	Managing Agency ⁴	Project Name	Primary Project Type	FY of Completion ⁵	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ⁶ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁷ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁸ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁹ (\$)	Cost Attributable to LEED® or Green Schools 2007 and 2009 Compliance ¹⁰ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ¹¹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?	
(DOHMH) Department of Health & Mental Hygiene	(DCAS) Department of Citywide Administrative Services	DOHMH Headquarters Consolidation	Fit-out in New Building	2012	661,051	125,456,760	9,215,810	92,138,890	Silver	92,138,890				1,582,000									
(DCAS) Department of Citywide Administrative Services	(DDC) Department of Design & Construction	City Hall Renovation	Substantial Reconstruction	2012	68,000	132,488,512	54,330,454	118,834,646	Silver	118,834,646				565,838									
DCAS subtotals (8 projects)					729,051	325,131,458	98,746,628	210,973,536		210,973,536	0	5,607,552	15,673,498	2,147,838									
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	American Museum of Natural History	Lighting	2011	0	10,388,000	0				0	1,100,000	0	0	0	2	376	1	0	0			
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	NYBG - NY Botanical Garden Horticulture Service	Substantial Reconstruction	2012	3,200	7,300,000	1,074,420	2,018,070	Silver	0				562,000	75,000	3	3,849	13	30,124	1,730,107			
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	NYBG Snuff Mill Renovation & IT Network Upgrade	Substantial Reconstruction	2012	8,900	11,000,000	470,036	8,486,000	Silver	0				589,000	75,000	32	8,976	20	29,358	55,042			
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	Museum of City of New York, Phase II	Substantial Reconstruction	2012	54,640	25,817,000	11,532,083	25,540,000	Silver	25,540,000				551,885	260,418	32	36,427	70	219,200	0			
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	122 Community Center COO Project	Substantial Reconstruction	2014	44,225	24,197,000	827,389	17,052,000	Silver	17,052,000				600,000									
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	52nd Street	Substantial Reconstruction	2012	17,000	11,108,000	521,200	10,824,000	Silver	0				0	52,688	0	71,717	331	93,250	0			
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	ART/ NY Alliance of Resident Theater	Fit-out in New Building	2013	19,020	14,400,000	440,687	10,060,091	Silver	0				0									
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	Bx River Art Center Building Reconstruction	Substantial Reconstruction	2013	4,540	9,025,000	115,762	7,622,000	Silver	0				0									
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	Irish Repertory Theatre Phase I Renovations	Substantial Reconstruction	2014	3,000	3,865,000	150,457	2,884,153	Silver	0				0									
(DCLA) Department of Cultural Affairs	(DDC) Department of Design & Construction	MBCA Install Elevator, Boilers, AC & Cellar Renovation	Substantial Reconstruction	2012	13,424	7,983,000	230,959	6,111,000	Certified	0				0	144,455	16	8,806	17	0	0			

Table 1 - Projects Subject to LL86, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs				Compliance Costs and Benefits						LEED Rating Level and Certification Achieved		
Primary Budgeting Agency ³	Managing Agency ⁴	Project Name	Primary Project Type	FY of Completion ⁵	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ⁶ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁷ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁸ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁹ (\$)	Cost Attributable to LEED® or Green Schools 2007 and 2009 Compliance ¹⁰ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ¹¹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?	
(DOHMH) Department of Health & Mental Hygiene	(DCAS) Department of Citywide Administrative Services	Two Gotham Center	Fit-out in New Building	2012	661,051	125,456,760	9,215,810	92,138,890	Silver	92,138,890				1,582,000	390,000	290	231,441	452	1,414,127	0			
DOHMH subtotals (4 projects)					725,479	176,515,790	33,892,692	139,693,885		137,243,885				3,497,800	662,525	431	262,109	535	1,516,819	0			
(DOITT) Department of Information Technology &	(DDC) Department of Design & Construction	NYPD Public Safety Answering Center	New Building	2014	550,000	700,000,000	83,278,957	525,000,000	Silver	525,000,000				13,057,000									
DOITT subtotals (1 project)					550,000	700,000,000	83,278,957	525,000,000		525,000,000				13,057,000									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	Marine Park Community Center	New Building	2011	9,800	11,413,000	11,413,000	9,000,000	Silver	0				0									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	McCarren Pool and Recreation Center	Substantial Reconstruction	2012	22,000	50,000,000	50,000,000	41,500,000	Silver	41,500,000				1,600,000									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	BRG River House	New Building	2015	6,901	6,300,000	0	6,076,000	Silver	0				0									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	Ocean Breeze Field House	New Building	2013	134,522	62,274,000	6,565,575	50,600,000	Silver	50,600,000				954,300									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	District HQ + Comfort Station	New Building	2011	15,527	24,584,220	28,311,000	24,584,220	Silver	24,584,220				618,002									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	Alley Pond Environmental Center	New Building	2013	8,500	10,140,000	10,140,000	10,140,000	Silver	0				750,000									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	Idlewild Nature Center	New Building	2013	4,500	5,005,000	5,005,000	5,005,000	Silver	0				0									
(DPR) Department of Parks & Recreation	(DPR) Department of Parks & Recreation	Washington Square Park Comfort Station	New Building	2013	3,173	6,431,000	469,300	6,431,000	Silver	0				0									
(DPR) Department of Parks & Recreation	(EDC) NYC Economic Development Corporation	Lakeside Center	New Building	2012	26,000	33,000,000	5,906,000	30,000,000	Silver	30,000,000				1,391,400	193,200	22	21,782	73	205,065	3,983,222			
(DPR) Department of Parks & Recreation	(EDC) NYC Economic Development Corporation	Coney Island - Steeplechase Plaza Concessions & Carousel	New Building	2014	8,000	25,000,000	25,000,000	7,000,000	Silver	0				0	100,000	23	9,185	18	42,068	0			

Table 1 - Projects Subject to LL86, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs				Compliance Costs and Benefits						LEED Rating Level and Certification Achieved		
Primary Budgeting Agency ³	Managing Agency ⁴	Project Name	Primary Project Type	FY of Completion ⁵	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ⁶ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁷ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁸ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁹ (\$)	Cost Attributable to LEED® or Green Schools 2007 and 2009 Compliance ¹⁰ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ¹¹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?	
(DPR) Department of Parks & Recreation	(EDC) NYC Economic Development Corporation	Mill Pond Park-Yankee Stadium - Public Work	Substantial Reconstruction	2009	28,248	15,300,000	0	12,000,000	Silver	12,000,000				0								Gold	Yes
DPR subtotals (11 projects)					267,171	249,447,220	142,809,875	202,336,220		158,684,220				5,313,702	293,200	45	30,967	91	247,133	3,983,222			
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Pier A	Substantial Reconstruction	2012	33,000	30,000,000	4,300,000	12,000,000	Silver	12,000,000				762,725									
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Sephardic Community Center	New Building	2011	110,000	62,946,000	12,700,000	46,800,000	Silver	46,800,000				0									
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Federation of Italian-American Organizations - Il Centro	New Building	2013	49,899	12,388,000	1,548,500	12,388,000	Silver	12,388,000				633,720	12,400	48	39,723	123	284,229	0			
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Seaview Senior Living Center - Commons	New Building	2014	11,820	79,395,643	0	42,847,588	Silver	42,847,588				0									
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Seaview Senior Living Center - Assisted Living Facility	New Building	2014	97,585		0	5,490,091	Silver	0				0									
(EDC) NYC Economic Development Corporation	(EDC) NYC Economic Development Corporation	Seaview Senior Living Center - Director's Residence	Substantial Reconstruction	2014	3,617		0	4,777,203	Silver	0				0									
EDC subtotals (6 projects)					305,921	184,729,643	18,548,500	124,302,882		114,035,588				1,396,445	12,400	48	39,723	123	284,229	0			
(HPD) Department of Housing Preservation & Development	(HPD) Department of Housing Preservation & Development	YMCA at Arverne By The Sea	New Building	2012	37,000	24,489,079	0	21,109,833	Silver	21,109,833				900,000									
HPD subtotals (1 project)					37,000	24,489,079	0	21,109,833		21,109,833				900,000	0	0	0	0	0	0	0		
(NYPD) Police Department	(DDC) Department of Design & Construction	New Police Academy	New Building	2013	650,000	683,777,000	63,966,855	662,000,000	Silver	662,000,000				17,183,000	1,100,000	487	792,628	2,347	4,638,400	4,258,713			
(NYPD) Police Department	(DDC) Department of Design & Construction	New 121st Precinct in Staten Island	New Building	2013	52,870	59,878,838	2,849,000	57,567,886	Silver	57,567,886				0	300,000	17	40,966	135	112,957	1,468,745			
NYPD subtotals (2 projects)					702,870	743,655,838	66,815,855	719,567,886		719,567,886				17,183,000	1,400,000	503	833,593	2,482	4,751,357	5,727,458			
(NYPL) New York Public Library	(DDC) Department of Design & Construction	Mariner Harbor Branch Library	New Building	2012	10,000	8,364,726	42,101	7,412,000	Silver	0				0	104,258	95	14,603	28	49,830	0			

Table 1 - Projects Subject to LL86, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs				Compliance Costs and Benefits					LEED Rating Level and Certification Achieved		
Primary Budgeting Agency ³	Managing Agency ⁴	Project Name	Primary Project Type	FY of Completion ⁵	Floor Area Subject to LEED® Rating Requirement (s.f.)	Project Cost ⁶ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Requirement ⁷ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁸ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁸ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁹ (\$)	Cost Attributable to LEED® or Green Schools 2007 and 2009 Compliance ¹⁰ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ¹¹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(NYPL) New York Public Library	(DDC) Department of Design & Construction	Woodstock Library Interior Renovation	Substantial Reconstruction	2015	9,630	4,841,821	31,067	4,235,000	Silver	0				0								
NYPL subtotals (2 projects)					19,630	13,206,547	73,168	11,647,000		0			0	104,258	95	14,603	28	49,830	0			
(QPL) Queens Library	(DDC) Department of Design & Construction	Glen Oaks Library	New Building	2012	18,000	13,911,000	136,851	11,658,000	Certified	0				0	146317	54	8,592	30	0	0		
(QPL) Queens Library	(DDC) Department of Design & Construction	Kew Gardens Hill Public Library	Substantial Reconstruction	2014	11,666	6,341,085	139,400	5,619,995	Silver	0				0								
(QPL) Queens Library	(DDC) Department of Design & Construction	East Elmhurst Expansion	Addition	2014	4,396	2,650,000	27,682	2,367,000	Certified	0				0								
QPL subtotals (3 projects)					34,062	22,902,085	303,933	19,644,995		0			0	146,317	54	8,592	30	0	0			
TOTALS (62 projects)					4,022,417	3,143,193,535	627,683,451	2,450,159,528		2,289,593,411	7,300,000	6,707,552	42,263,883	51,132,303	3,740,391	1,611	1,600,231	56,255	8,538,858	11,524,257		

New York School Construction Authority (SCA) LL86 Projects

The SCA reports that their projects are being designed and constructed to comply with LL86 although, in accordance with the New York State (NYS) Public Authority Law, such projects are not subject to certain local laws such as LL86. Data reported by the SCA continues to demonstrate compliance with LL86, except that projects starting design after the LL86 Rules were amended on June 26, 2009, would need to use LEED® for Schools 2009 in lieu of the NYC Green Schools Guide rating system and would need to satisfy the LL86 requirement that some projects apply to the USGBC for certification. Data analogous to that described in Table 1, “Projects Subject to LL86”, is provided for SCA LL86 projects in Table 2, “SCA LL86 Projects”.

Notes to tables

1. Gray cells in Table 1, “Projects Subject to LL86”, and Table 2, “SCA LL86 Projects”, indicate where the data type described is not applicable to the project for one of the two following reasons. It is not provided either because a project that is subject to a LEED® rating level requirement cannot, in accordance with LL86, be subject to a system specific energy cost reduction requirement and vice versa or because the project design or construction has not progressed to the point that the requested data can be generated.
2. Blue cells in Table 2, “SCA LL86 Projects”, indicate those projects that would be required to utilize LEED® for Schools 2009, in lieu of the NYC Green Schools Guide Rating System 2007 or 2009, were they subject to the requirements of LL86. Note that several of these projects would also be required to apply to the USGBC for certification.
3. The budgeting agency is the city agency whose budget carries the largest portion of the City's funding contribution to the project until such funds are transferred to the managing agency. In cases where an agency is managing a project funded out of its own budget, the primary budgeting agency and the managing agency are the same.
4. The managing agency is the city agency that manages construction on the project or, in the case of projects where construction is managed by a non-city entity, the managing agency is the city agency that holds and enforces the funding agreement, land disposition agreement, or lease with the non-city entity receiving city funds for the project. The managing agency is also responsible for reporting data on the LL86 projects in their portfolio.

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 342-M aka M342	Fit-out in New Building	On Hold	89,847	65,056,034	5,397	56,178,352	Certified	56,178,352				965,172								
(DOE) Department of Education	(SCA) NYC School Construction	PS 316-Q aka Q316	New Building	2015	65,810	53,541,465	1,030,698	45,735,627	Certified	45,735,627				0								
(DOE) Department of Education	(SCA) NYC School Construction	PS 70-Q Addition aka Q070	Addition	2015	60,469	52,477,600	384,548	39,391,456	Certified	39,391,456				0								
(DOE) Department of Education	(SCA) NYC School Construction	PS 294-X	New Building	2015	63,361	46,294,872	809,611	39,904,540	Certified	39,904,540				0								
(DOE) Department of Education	(SCA) NYC School Construction	PS 287 aka Q287	New Building	2014	64,791	59,112,860	2,366,640	44,600,542	Certified	44,600,542				531,775								
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 312 aka Q312	New Building	2014	98,569	66,343,327	50,647,054	58,101,300	Certified	58,101,300				623,790	235,000	150	30,386	87	929,512	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 71 aka R071	New Building	2014	111,000	80,400,622	54,566,956	64,941,750	Certified	64,941,750				1,159,150	313,000	161	42,781	116	336,365	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	IS @Highbridge Gardens aka Q285	New Building	2014	59,941	49,355,983	4,102,142	41,444,865	Certified	41,444,865				564,975	235,000	91	18,478	53	248,957	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 177 aka X177	New Building	2014	97,122	75,246,050	1,011,276	59,398,920	Certified	59,398,920				787,320	235,000	148	29,940	86	298,832	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS @ Barnes Ave aka X292	New Building	2013	61,000	47,725,333	2,386,231	38,791,305	Certified	38,791,305				544,320	255,000	93	18,805	54	223,611	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 29 Addition aka Q029	Addition	2013	26,735	27,971,300	684,582	16,375,770	Certified	16,375,770				0	194,000	25	11,941	32	253,544	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	IS/HS 404 aka Q404	New Building	2014	142,606	84,626,467	4,092,518	74,234,070	Certified	74,234,070				1,788,480	270,500	189	97,007	261	637,493	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 281 aka M281	New Building	2013	94,124	99,355,013	2,682,267	57,809,700	Certified	57,809,700				767,880	240,000	71	29,217	91	342,269	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 51 Replacement aka M338	New Building	2014	99,370	75,817,930	2,078,032	66,496,950	Certified	66,496,950				804,330	235,000	151	30,633	88	353,876	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 310 aka K310	New Building	2013	52,758	39,762,496	1,088,054	62,126,960	Certified	62,126,960				537,030	235,000	80	16,264	47	160,081	0	Certified	No

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	PS 331 aka K331	New Building	2014	98,849	83,201,532	3,697,159	62,126,960	Certified	62,126,960				818,910	75,000	150	30,473	87	356,119	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 8 Addition aka K008	Addition	2013	17,858	29,280,511	1,847,793	22,779,016	Certified	22,779,016				0	240,000	27	5,682	16	83,708	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 133 @ Butler Street aka K133	New Building	2014	117,484	91,477,187	881,014	79,203,904	Certified	79,203,904				843,180	235,000	179	36,218	104	455,789	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	IS/HS @ Spring Creek aka K422	New Building	2013	154,530	100,313,783	669,986	87,125,688	Certified	87,125,688				1,704,300	235,000	235	47,638	136	731,360	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	All City Leadership School aka K554	New Building	2013	53,171	40,362,711	1,057,165	35,041,604	Certified	35,041,604				580,000	235,000	81	16,391	47	236,550	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 79 Addition aka X079	Addition	2012	65,141	67,863,387	2,329,263	37,419,252	Certified	37,419,252				807,300	215,000	99	20,081	58	471,968	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 95 Addition aka X095	Addition	2012	55,869	66,972,197	2,872,792	35,038,016	Certified	35,038,016				1,495,000	205,000	85	17,223	49	213,976	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	ECC 361 @ PS 94 aka X361	New Building	2012	52,776	46,416,960	1,855,689	40,269,320	Certified	40,269,320				598,000	215,000	51	8,990	25	303,705	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 48 aka Q276	New Building	2012	94,023	72,399,387	2,307,143	62,776,844	Certified	62,776,844				986,700	215,000	143	28,985	83	471,574	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 276M aka M276	New Building	2012	127,700	108,902,124	3,584,392	93,072,720	Certified	93,072,720				1,554,800	325,000	194	39,367	113	471,968	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	IS 259 Addition aka K259	Addition	2012	51,209	52,814,565	1,219,987	30,952,480	Certified	30,952,480				753,480	205,000	78	15,787	45	244,770	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS @ PS163K aka K163	New Building	2012	101,560	82,459,104	2,949,102	71,561,464	Certified	71,561,464				1,106,300	260,000	154	31,309	90	386,700	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 971 @ 4th Avenue aka K971	New Building	2012	43,338	41,332,510	1,541,357	30,492,020	Certified	30,492,020				0	215,000	66	13,360	38	224,855	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 42 Addition aka Q042	Addition	2013	53,091	59,329,623	2,530,635	32,490,536	Certified	32,490,536				837,200	235,000	81	16,367	47	687,956	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	HS 585 (Maspeth HS) aka Q585	New Building	2013	149,938	113,612,421	1,392,297	84,019,000	Certified	84,019,000				2,152,800	235,000	228	46,222	132	667,128	0	Certified	No

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	PS 196 Addition aka Q196	Addition	2013	35,684	41,079,865	2,940,237	27,048,736	Certified	27,048,736				550,160	235,000	54	11,001	32	378,525	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 277 aka Q277	New Building	2013	94,580	77,328,153	1,548,285	56,373,460	Certified	56,373,460				1,088,360	235,000	144	29,157	83	404,862	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS/IS 264 aka K264	New Building	2013	73,528	64,125,395	10,604	47,618,624	Certified	47,618,624				759,460	235,000	112	22,667	65	258,069	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	Settlement Housing PS/IS aka X240	New Building	2013	147,654	54,507,156	1,192,656	42,839,524	Certified	42,839,524				1,584,700	205,000	224	45,518	130	694,166	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 89 Cypress Hills aka K814	New Building	2012	57,066	50,192,702	1,021,161	43,150,840	Certified	43,150,840				609,000	255,000	87	17,592	50	235,518	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	Community Health Academy (CLOTH) aka M814	New Building	2013	75,183	65,544,323	1,578,194	52,298,688	Certified	52,298,688				879,060	235,000	114	23,177	66	289,812	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	PS 160K Annex aka K160	Addition	2014	61,971	58,732,532	1,297,495	37,877,320	Certified	37,877,320				669,760	235,000	59	36,659	80	239,152	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	Manhattan Eye, Ear and Throat Hospital Annex	Substantial Reconstruction	2012	50,786	80,345,591	61,149	40,600,000	Certified	40,600,000				1,421,000	268,500	168	34,212	98	326,381	0	Certified	No
(DOE) Department of Education	(SCA) NYC School Construction	BRONX REGIONAL HS aka X401 (PLANYC BOILER)	Boiler	2014	0	5,618,888	61,569			4,106,464	0	0	0									
(DOE) Department of Education	(SCA) NYC School Construction	BROOKLYN TECH HS (TOILETS - STUDENTS)	Plumbing	2012	0	5,615,260	2,703,985			0	0	0	572,178	0	0	0	0	0	2,304,465	0		
(DOE) Department of Education	(SCA) NYC School Construction	FT HAMILTON HS (HEATING PLANT UPGRADE)	Boiler	2012	0	11,033,680	8,251,843			9,059,232	0	0	0	0	0	0	5,307	24	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	GOMPERS VOCATIONAL HS (PLANYC BOILER)	Boiler	2013	0	8,550,570	5,025,087			5,246,064	0	0	0	0	0	0	3,628	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 113 (BOILER SYSTEM & FUEL OIL TANK RPLC)	Boiler	2014	0	5,512,318	4,248,894			3,730,140	0	0	0	0	0	0	0	0	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 115 (@X115) (PLANYC BOILER CONVERSION)	Boiler	2012	0	6,974,520	4,400,704			4,971,312	0	0	0	0	0	0	2,383	11	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 127 (ELECTRICAL LIGHTING)	Lighting	2012	0	1,250,200	1,036,591			0	1,128,000	0	0	0	0	25	11,218	22	0	0		

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 137 (PLANYC BOILER CONVERSION)	Boiler	2013	0	6,224,400	4,332,174				4,773,600	0	0	0	0	0	4,289	20	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 147 (PLANYC BOILER CONVERSION)	Boiler	2013	0	4,671,891	2,368,360				2,775,240	0	0	0	0	0	3,646	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 158 (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,210,940	3,350,445				2,860,140	0	0	0	0	0	4,010	18	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 183 (PLANYC BOILER CONVERSION)	Boiler	2013	0	4,644,360	1,970,738				2,304,720	0	0	0	0	0	3,474	16	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 184 (PLANYC BOILER CONVERSION)	Boiler	2013	0	4,681,600	1,822,257				2,144,102	0	0	0	0	0	3,753	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 193 (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,167,050	2,008,178				2,284,380	0	0	0	0	0	1,587	7	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 195M (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,038,040	2,983,712				3,045,552	0	0	0	0	0	3,324	15	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 216 (@X116) (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,942,440	2,893,400				3,163,344	0	0	0	0	0	3,732	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 227 (HEATING PLANT UPGRADE)	Boiler	2012	0	7,041,339	4,571,234				5,273,063	0	0	0	0	0	3,850	18	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 234 (TOILETS - STUDENTS)	Plumbing	2012	0	1,711,020	1,620,978				0	0	0	1,543,777	0	0	0	0	1,100,736	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 285 (HEATING PLANT UPGRADE)	Boiler	2013	0	5,774,860	4,175,986				3,490,968	0	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 383 (PLANYC BOILER CONVERSION)	Boiler	2013	0	6,208,440	3,513,100				3,809,088	0	0	0	0	0	3,774	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 391 (@X137) (TOILETS - STUDENTS)	Plumbing	2012	0	3,362,240	1,086,065				0	0	0	1,061,760	0	0	0	0	768,427	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 59 (LIGHTING FIXTURES)	Lighting	2012	0	1,197,000	913,847				0	3,978,076	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 61 (BOILER REPLACEMENT)	Boiler	2013	0	2,876,321	3,793,403				4,392,091	0	0	0	0	0	3,195	15	0	0		

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs				Compliance Costs and Benefits						LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 84X (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,316,010	2,025,736				2,158,380	0	0	0	0	0	3,774	17	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	I.S. 93 (ELECTRICAL LIGHTING)	Lighting	2012	0	1,179,710	980,011				0	1,064,400	0	0	0	23	0	0	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 10 (BOILER REPLACEMENT)	Boiler	2012	0	9,149,070	6,206,271				6,686,388	0	0	0	0	0	2,115	10	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 141 (HEATING PLANT UPGRADE)	Boiler	2012	0	5,275,392	3,680,071				3,760,068	0	0	0	0	0	2,680	12	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 157 (HEATING PLANT UPGRADE)	Boiler	2013	0	18,991,070	2,503,194				2,912,916	0	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 168 (HEATING PLANT UPGRADE)	Boiler	2014	0	7,319,974	4,818,784				5,113,152	0	0	0	0	0	2,595	12	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 324 (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,079,270	3,028,958				3,207,960	0	0	0	0	0	4,118	19	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	J.H.S. 45 (HEATING PLANT UPGRADE)	Boiler	2012	0	8,075,760	3,701,252				3,570,336	0	0	0	0	0	3,838	18	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	JAMAICA HS (HEATING PLANT UPGRADE)	Boiler	2013	0	10,773,000	6,241,804				6,609,600	0	0	0	0	0	5,345	25	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	JOHN JAY HS (CEC REQUEST- HEATING PLANT)	Boiler	2013	0	10,863,440	6,545,448				7,351,200	0	0	0	0	0	5,972	28	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	MADISON HS (TOILETS - STUDENTS)	Plumbing	2012	0	16,636,611	1,424,050				0	0	0	4,587,922	0	0	0	0	902,467	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 100 (LIGHTING FIXTURES)	Lighting	2013	0	1,529,500	31,632				0	2,397,502	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 108 (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,971,700	3,983,839				4,310,400	0	0	0	0	0	829	4	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 111 (HEATING PLANT UPGRADE)	Boiler	2012	0	5,068,630	3,609,668				3,567,096	0	0	0	0	0	1,979	9	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 12 (HEATING PLANT UPGRADE)	Boiler	2012	0	7,611,391	3,954,338				4,120,452	0	0	0	0	0	1,646	8	0	0		

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 120 (PLANYC BOILER CONVERSION)	Boiler	2012	0	4,184,180	2,973,934				3,510,936	0	0	0	0	0	1,118	5	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 121 (HEATING PLANT UPGRADE)	Boiler	2012	0	4,395,650	3,222,826				3,212,460	0	0	0	0	0	1,651	8	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 121 (TOILETS - STUDENTS)	Plumbing	2012	0	1,114,466	745,219				0	0	0	619,112	0	0	0	0	157,248	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 122 (@X122) (PLANYC HEATING PLANT UPGRADE)	Boiler	2013	0	6,196,470	3,745,937				4,304,916	0	0	0	0	0	1,608	7	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 157 (PLANYC BOILER CONVERSION)	Boiler	2014	0	3,652,179	2,774,986				3,295,199	0	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 161 (PLANYC BOILER CONVERSION)	Boiler	2013	0	6,916,000	38,097				4,800,000	0	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 161 (TOILETS - STUDENTS)	Plumbing	2011	0	1,448,370	1,392,251				0	0	0	955,156	0	0	0	0	565,110	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 178 (PLANYC HEATING PLANT UPGRADE)	Boiler	2012	0	6,232,380	3,607,086				4,837,022	0	0	0	0	0	1,317	6	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 18 (BOILER REPLACEMENT)	Boiler	2013	0	4,217,430	3,624,646				3,805,200	0	0	0	0	0	1,973	9	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 18 (PLANYC BOILER CONVERSION)	Boiler	2014	0	6,916,000	311,243				4,800,000	0	0	0	0	0	0	0	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 180 (LIGHTING FIXTURES)	Lighting	2013	0	1,324,680	20,019				0	1,195,200	0	0								
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 188 (PLANYC HEATING PLANT UPGRADE)	Boiler	2012	0	5,497,090	1,102,066				1,012,200	0	0	0	0	0	1,344	6	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 194 (PLANYC BOILER CONVERSION)	Boiler	2012	0	7,672,770	4,781,115				5,053,644	0	0	0	0	0	1,698	8	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 209 (TOILETS - STUDENTS)	Plumbing	2012	0	2,135,980	947,056				0	0	0	925,056	0	0	0	0	369,192	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 226 (TOILETS - STUDENTS)	Plumbing	2012	0	1,728,310	1,456,925				0	0	0	1,070,366	0	0	0	0	484,029	0		

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 229 (PLANYC BOILER CONVERSION)	Boiler	2013	0	3,870,300	1,869,868				2,199,960	0	0	0	0	0	3,324	15	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 23 (PLANYC BOILER CONVERSION)	Boiler	2012	0	5,171,040	2,747,789				2,939,328	0	0	0	0	0	1,509	7	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 246 (POE CENTER, PLANYC BOILER)	Boiler	2013	0	7,038,360	4,063,013				4,762,800	0	0	0	0	0	0	0	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 253 (BOILER PLANT)	Boiler	2012	0	5,696,124	4,302,266				4,574,030	0	0	0	0	0	1,329	6	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 26 (PLANYC BOILER CONVERSION)	Boiler	2013	0	5,266,800	2,516,906				2,898,720	0	0	0	0	0	1,548	7	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 3 (LIGHTING FIXTURES)	Lighting	2012	0	1,242,358	1,746,848				0	1,120,924	0	0	0	0	4,118	19	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 32 (HEATING PLANT UPGRADE)	Boiler	2014	0	21,065,870	3,464,033				3,611,292	0	0	0	0	27	12,327	24	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 335 (TOILETS - STUDENTS)	Plumbing	2012	0	3,047,030	2,802,927				0	0	0	2,749,200	0	0	1,906	9	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 36 (PLANYC BOILER CONVERSION)	Boiler	2012	0	6,227,060	2,940,173				3,427,224	0	0	0	0	0	0	0	393,059	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 377 (PLANYC BOILER CONVERSION)	Boiler	2012	0	7,755,230	4,499,581				5,197,200	0	0	0	0	0	1,523	7	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 44 (TOILETS - STUDENTS)	Plumbing	2012	0	1,570,298	1,436,225				0	0	0	1,416,810	0	0	2,390	11	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 50 (BOILER REPLACEMENT)	Boiler	2013	0	4,428,900	3,236,967				3,436,560	0	0	0	0	0	0	0	331,695	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 50 (UDC & ECF) (PLANYC BOILER)	Boiler	2013	0	4,221,420	2,302,719				2,475,720	0	0	0	0	0	1,780	8	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 52 (PLANYC HEATING PLANT UPGRADE)	Boiler	2011	0	4,968,880	2,766,396				3,048,576	0	0	0	0	0	2,788	13	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 56 (PLANYC BOILER CONVERSION)	Boiler	2012	0	6,969,200	3,353,355				3,898,560	0	0	0	0	0	2,086	10	0	0		

Table 2 - SCA LL86 Projects, continued

Project Attributes								LEED Project Requirements and Construction Costs			System Specific Project Requirements and Construction Costs					Compliance Costs and Benefits					LEED Rating Level and Certification Achieved	
Primary Budgeting Agency ¹	Managing Agency ²	Project Name	Primary Project Type	FY of Completion ⁴	Floor Area Subject to LEED® Rating Level Requirement (s.f.)	Project Cost ³ (\$)	City Expenditure in FY 2011 (\$)	Construction Cost of Work Subject to LEED® Rating Level Requirement ⁵ (\$)	Minimum LEED® Rating Level Required	Construction Cost of Work Subject to LEED® Project Minimum 20 - 30% Energy Cost Reduction (ECR) Requirements (\$)	Construction Cost of Boiler Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of Lighting Work Subject to Minimum 10% ECR Requirement ⁶ (\$)	Construction Cost of HVAC Comfort Control Work Subject to Minimum 5% ECR Requirement ⁶ (\$)	Construction Cost of Domestic Plumbing Work Subject to Minimum 30% Potable Water Use Reduction Requirement ⁷ (\$)	Cost Attributable to LEED® or Green Schools 2007 Compliance ⁸ (\$)	Electric Peak Demand Reduction (kW)	Energy Cost Reduction (\$/yr)	Greenhouse Gas Reduction (metric tons/yr)	Potable Water Use Reduction (gals/yr)	Stormwater Runoff Reduction ⁹ (gals/yr)	LEED® Rating Level Achieved	Has USGBC certified LEED rating level achieved?
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 57 (BOILER REPLACEMENT)	Boiler	2012	0	3,827,740	2,827,555				3,142,776	0	0	0	0	0	1,924	9	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 60 (ELECTRICAL LIGHTING)	Lighting	2012	0	1,117,200	1,472,538				0	1,008,000	0	0	0	0	2,862	13	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 7 (TOILETS - STUDENTS)	Plumbing	2012	0	1,659,109	1,637,023				0	0	0	1,496,940	0	0	0	0	329,238	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 76 (PLANYC BOILER CONVERSION)	Boiler	2012	0	5,963,720	3,215,044				3,443,712	0	0	0	0	0	1,926	9	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 81 (PLANYC BOILER CONVERSION)	Boiler	2012	0	6,243,020	2,672,251				3,154,368	0	0	0	0	0	2,469	11	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	P.S. 91 (TOILETS - STUDENTS)	Plumbing	2012	0	1,725,650	1,604,868				0	0	0	1,556,977	0	0	0	0	351,697	0		
(DOE) Department of Education	(SCA) NYC School Construction	SEWARD PARK HS (TOILETS - STUDENTS)	Plumbing	2012	0	1,851,360	2,543,603				0	0	0	504,399	0	0	0	0	534,310	0		
(DOE) Department of Education	(SCA) NYC School Construction	TAFT HS (PLANYC BOILER CONVERSION)	Boiler	2012	0	13,531,420	7,499,028				8,301,984	0	0	0	0	0	6,116	28	0	0		
(DOE) Department of Education	(SCA) NYC School Construction	W.E.B. DUBOIS H.S. (HEATING PLANT UPGRADE)	Boiler	2010	0	6,910,680	4,540,617				5,284,320	0	0	0	0	0	1,072	5	0	0		
TOTAL (129 projects)						4,541,771	4,176,196,023	510,148,573	2,854,936,113		2,854,936,113	225,226,155	11,892,102	0	61,428,384	140,460,616	4,159	1,104,133	3,357	21,404,897	0	

5. The FY of Completion represents the FY in which (i) the project or project phase is at least substantially complete, (ii) the last of the city funds to be expended on the project have been released from the city treasury, and (iii) all applicable LL86 requirements have been achieved. Note that such requirements include the requirement to apply to the USGBC for certification of a LEED® rating or the equivalent certification that is internal to the managing agency.
6. Project cost is the value of all capitably eligible work described in all OMB approved Certificates to Proceed (CP) or CBX Certificates for the entire project, including all amendments thereto and all supporting documentation submitted to OMB for the issuance thereof, and "capitably eligible" is defined in accordance with the latest version of Directive 10 published by the NYC Comptroller. Note that, while some portions of a project may not be paid for with city funds, all capitably eligible work mentioned in the CP or CBX Certificates and their supporting documentation contributes to determining the project cost.
7. Construction costs indicated here are only for the portion of work to which the LL86 LEED® related provisions apply. For example, where a project or project phase is subject to the system specific energy cost reduction requirements of the law and involves significant landscaping work in addition to the system specific work, the construction cost indicated here reflects only work on such system specific work. Construction costs reported derive from or anticipate costs in the final design and include all construction related costs, such as furniture, fittings and equipment, contractor mark-ups, contingencies, and construction management fees.
8. This represents the construction cost for the portion of work in the project that is subject to the relevant LL86 system specific energy cost reduction provisions. For example, where a covered lighting installation is part of a larger project, the construction cost indicated here reflects only the lighting work. Note that all construction costs reported are derived from or anticipate costs in the supporting documentation of the OMB approved CP or CBX Certificates, and include all mark-ups and contingencies as well as construction management fees.
9. If there is a potable water use reduction requirement, the construction cost indicated represents the domestic plumbing work in the project. Construction costs reported are derived from or anticipate costs in the supporting documentation of the OMB approved CP or CBX Certificates, and include all mark-ups and contingencies as well as construction management fees.

10. LEED® compliance costs indicated are limited to professional fees for energy analysis, commissioning, USGBC filing, and LEED® or NYC Green Schools Guide 2007 or 2009 expertise.
11. Stormwater baseline and design case data is only reported for projects with a LEED® rating level requirement that have targeted Sustainable Sites (SS) Credit 6.1 Stormwater Design-Quantity Control in LEED® 2009 for New Construction and Major Renovations or the equivalent credit in other LEED® rating systems utilized to satisfy LL86 requirements.

Conclusions

In the time between January 1, 2007, when LL86 took effect, and the end of FY 2011, a cumulative total of 191 construction projects (of which 62 were regular LL86 projects and 129 were SCA LL86 projects) authorized by OMB to spend city funds were required to comply with the rigorous standards of the LEED® green building rating system and the 2007 and 2009 NYC Green Schools Guide rating system as a result of LL86 of 2005. This accounts for a total of 8,564,188 sf and a total project cost of \$7,319,389,558 throughout the City. By requiring these 191 construction projects, along with many future city construction projects, to comply with the LEED® green building rating system and the 2007 and 2009 NYC Green Schools Guide rating system, NYC is reducing greenhouse gas emissions, lowering city operating expenses, increasing city worker productivity, and improving the overall health of the City's citizens.

Since the last report on LL86 was published, more steps have been taken to ensure that NYC capital construction projects remain leaders in sustainability. On June 27, 2011 Mayor Bloomberg issued Executive Order 149 of 2011. This Executive Order allows MOEC to change the stringency and requirements of LL86 to best align with current green building standards and practices. This Executive Order will ensure that new city construction projects are built to best serve the future needs of the City.

Unlike previous years, the 2011 data presented in this report indicates that the overall value of all projects subject to LL86 significantly declined. This decrease in project value subject to LL86 is a direct result of the amount of money authorized by OMB for construction projects. From FY 2008 to FY 2011, OMB authorized on average \$1.8 billion ever year for construction related city expenditures, while in FY 2011 OMB only authorized \$800 million.

Despite the overall drop in project value subject to LL86, the projects that did comply with LL86 in 2011 contributed greatly to the City's goal of reducing greenhouse gas emissions of municipal operations by 30% by 2017 - a key PlaNYC 2030 initiative and a central provision of the "Long-Term Plan to Reduce Energy Consumption and Greenhouse Gas Emissions of Municipal Buildings." Extrapolating from the data shown in this report, the incremental investment in energy efficiency mandated by LL86 contributes toward both of these greenhouse gas reduction goals at an average annual reduction rate of approximately 2700 metric tons per year, or roughly 1% of the target for the reduction of greenhouse gas emissions.

In conclusion, the implementation of LL86 remains a cost effective way to save taxpayer dollars over the life of the buildings and spaces covered by its provisions, despite the variability from year to year in the dollar value of LL86 projects authorized to contract for the expenditure of city funds. The data in this report show that, as more and more LL86 projects come on line, the law's contribution to reducing greenhouse gases and lowering city expenses, as well as to increasing the health and productivity of building occupants, will remain significant.