Leadership in Energy & Environmental Design

What Is Green Building?

IMPACTS OF U.S. BUILDINGS ON RESOURCES

40% primary energy use*

72% electricity consumption*

39% CO_2 emissions*

13.6% potable water consumption**

Sources:
*Environmental Information Administration (2008). EIA Annual Energy Outlook.
** U.S. Geological Survey (2000). 2000 data.

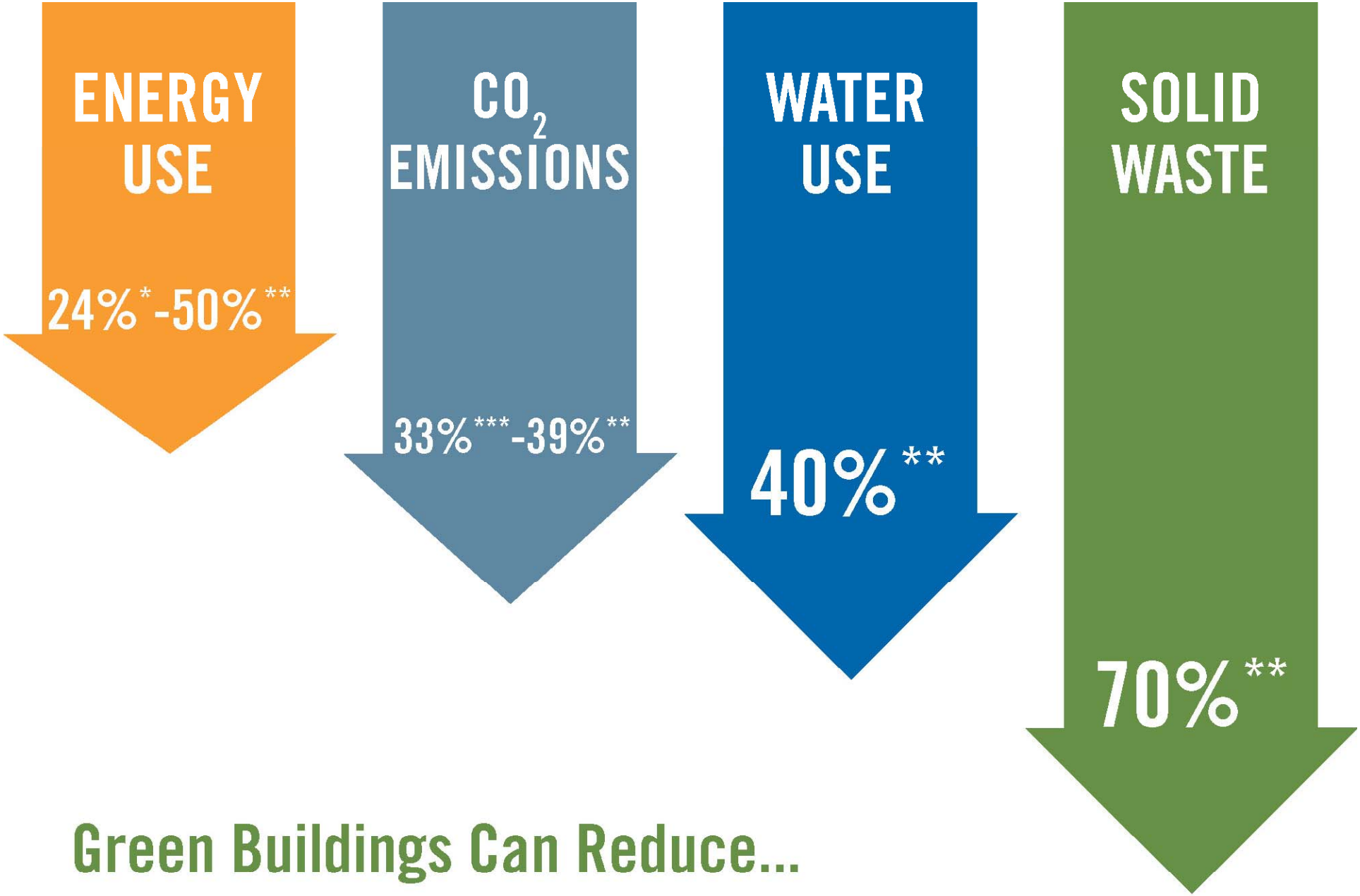
Global CO_2 Emissions by Sector

#1. Buildings

#2. Transportation

#3. Industry

Source: Energy Information Administration (2006). Emissions of Greenhouse Gases in the United States.



Green Buildings Can Reduce...

* Turner, C. & Frankel, M. (2008). Energy performance of LEED for New Construction buildings: Final report.
** Kats, G. (2003). The Costs and Financial Benefits of Green Building: A Report to California's Sustainable Building Task Force.
*** GSA Public Buildings Service (2008). Assessing green building performance: A post occupancy evaluation of 12 GSA buildings.

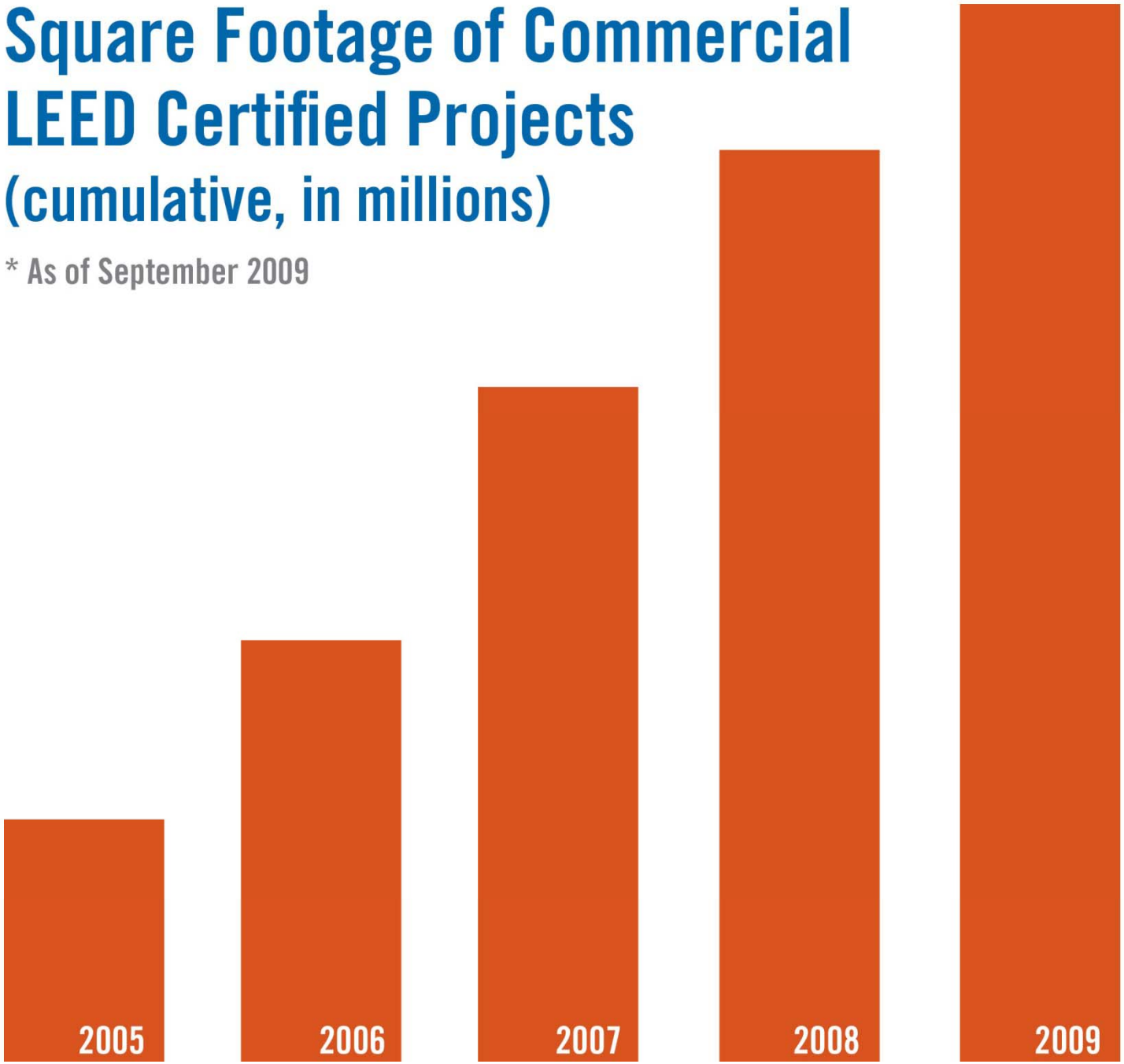
Green Building Occupants Are Healthier & More Productive

- In the U.S., people spend, on average, 90% or more of their time indoors*
- Green buildings typically have better indoor air quality and lighting

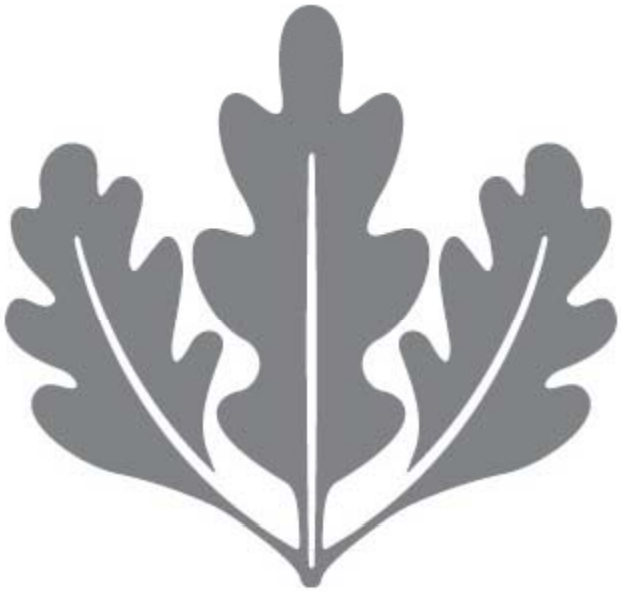
* Source: The Total Exposure Assessment Methodology (TEAM) Study. EPA 600/S6-87/002. U.S. Environmental Protection Agency. 1987.

Square Footage of Commercial LEED Certified Projects
(cumulative, in millions)

* As of September 2009



613*
million



MISSION

Buildings and communities will regenerate and sustain the health and vitality of all life within a generation.

VISION

To transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy and prosperous environment that improves the quality of life.

USGBC has four levels of LEED:

Certified: 40-49 points Silver: 50-59 points Gold: 60-79 points Platinum: 80+ points

t1

Steps to LEED Certification

Slide 11

t1 Change title to:
Getting Started: Tools
technician, 8/8/2008

LEED 2009 for New Construction
Project Scorecard

Project Name: Peekskill Fire Headquarters
Project Addre: Peekskill, NY

Possible Items — Yellow
Rejected Items — Grey
Selected Items — White

Yes	?	No	MEASURES		NOTES	Rough Guess Cost
8	6	1	**SUSTAINABLE SITES**	26	**Points**	
Y			Prereq 1 **Construction Activity Pollution Preven**	Req'd	Reduce pollution from construction activities by controlling erosion, waterway sedimentation and airborne dust generation.	$ -
		1	Credit 1 **Site Selection**	1	Avoid the development of inappropriate sites and reduce the environmental impact from the location of a building on a site.	No Cost
		1	Credit 2 **Development Density and Community Con**	5	Channel development to urban areas with existing infrastructure, protect greenfields, and preserve habitat and natural resources.	No Cost
		1	Credit 3 **Brownfield Redevelopment**	1	Rehabilitate damaged sites where development is complicated by environmental contamination and reduce pressure on undeveloped la	No Cost
		1	Credit 4.1 **Alternative Transportation** - Public Transpo	6	Reduce pollution and land development impacts from automobile use (proximity to public transportation).	$ -
		1	Credit 4.2 **Alternative Transportation** - Bicycle Storag	1	Reduce pollution and land development impacts from automobile use (bicycle racks & changing rooms).	$1,000
		1	Credit 4.3 **Alternative Transportation** - Low-Emitting a	3	Reduce pollution and land development impacts from automobile use (preferred parking for low-emitting and fuel-efficient vehicles).	No Cost
		1	Credit 4.4 **Alternative Transportation** - Parking Capac	2	Reduce pollution and land development impacts from automobile use (preferred parking for carpools or vanpools).	No Cost
		1	Credit 5.1 **Site Development** - Protect or Restore Habitat	1	Restore damaged areas to provide habitat and promote biodiversity (restore with native or adapted vegetation.	NA
		1	Credit 5.2 **Site Development** - Maximize Open Space	1	Promote biodiversity by providing a high ratio of open space to development footprint (open space exceeds local zoning requirement by 2	No Cost
		1	Credit 6.1 **Stormwater Design** - Quantity Control	1	Limit disruption of natural hydrology by reducing imperviour cover, increasing on-site infiltration, reducing or eliminating pollution from r	See WE
		1	Credit 6.2 **Stormwater Design** - Quality Control	1	To limit disruption and pollution of natural water flows by managing stormwater runoff (removing 80% of the average annual port develope	See WE
		1	Credit 7.1 **Heat Island Effect** - Nonroof	1	Reduce heat islands to minimize impacts on microclimates and human and wildlife habitats (SRI≥29 [concrete paving]).	$ -
		1	Credit 7.2 **Heat Island Effect** - Roof	1	Reduce heat islands to minimize impacts on microclimates and human and wildlife habitats (light roof with SRI≥78).	$ -
		1	Credit 8 **Light Pollution Reduction**	1	Minimize light trespass from the building and site, reduce sky-glow to increase night sky access, improve nighttime visibility through glare reduction and reduce development impact from lighting on nocturnal environments.	$ -
						$$$
5	0	5	**WATER EFFICIENCY**	10	**Points**	
				4		
Y			Prereq 1 **Water Use Reduction**	Req'd	Increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.	No Cost
		2	Credit 1 **Water Efficient Landscaping**	2 to 4		
			2 Reduce by 50%	2	Limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for l	
			4 No Potable Water Use or Irrigation	4		$$$$
		2	Credit 2 **Innovative Wastewater Technologies**	2	Reduce wastewater generation and potable water demand while increasing the local aquifer recharge (treated drain water for truck washing	$$$$
		2	Credit 3 **Water Use Reduction**	2 to 4		
			2 Reduce by 30%	2	Further increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems (water saving f	No Cost
						$$$
3	8	8	**ENERGY & ATMOSPHERE**	35	**Points**	
Y			Prereq 1 **Fundamental Commissioning of Building**	Req'd	Verify that the project's energy-related systems are installed, and calibrated to perform according to the owner's project requirements, b	$$$$
Y			Prereq 2 **Minimum Energy Performance**	Req'd	Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts ass	$ -
Y			Prereq 3 **Fundamental Refrigerant Management**	Req'd	Reduce stratospheric ozone depletion (Zero use of chlorofluorocarbon (CFC)).	$ -
	4		Credit 1 **Optimize Energy Performance**	1 to 19	Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts	
			7 Improve by 24% for New Buildings or 20% for Ex	7	associated with excessive energy use (equal to 24% reduction).	$ -
	1		Credit 2 **On-Site Renewable Energy**	1 to 7	Encourage and recognize increasing levels of on-site renewable energy self-supply to reduce environmental and economic impacts associ	
			1 1% Renewable Energy	1	Domestic Hot Water - Small PV array. Pre-wire for future large PV array. Triggers EP	$$$$
			2 3% Renewable Energy	2		NA
			3 5% Renewable Energy	3		NA
			4 7% Renewable Energy	4		NA
			5 9% Renewable Energy	5		NA
			6 11% Renewable Energy	6		NA
			7 13% Renewable Energy	7		NA
	2		Credit 3 **Enhanced Commissioning**	2	Begin the commissioning process early in the design process and execute additional activities after systems performance verification is completed (Prior to the start of the construction documents phase, designate an independent commissioning authority (CxA) to lead,	$$$$
		2	Credit 4 **Enhanced Refrigerant Management**	2	Reduce ozone depletion (Select refrigerants and equipment that minimize or eliminate the emission of compounds that contribute to ozo	$ -
		3	Credit 5 **Measurement and Verification**	3	Provide for the ongoing accountability of building energy consumption over time.	$ -
		2	Credit 6 **Green Power**	2	Encourage the development and use of grid-source, renewable energy technologies on a net zero pollution basis (2-year renewable energy	$2,000
						$$$
2	2	8	**MATERIALS & RESOURCES**	14	**Points**	
Y			Prereq 1 **Storage and Collection of Recyclables**	Req'd	Reduction of waste generated by building occupants that is hauled to and disposed of in landfills (easily-accessible dedicated areas are ava	$ -
		3	Credit 1.1 **Building Reuse** - Maintain Existing Walls, Floors &	1 to 3	Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and environmental impacts ar	NA
		1	Credit 1.2 **Building Reuse** - Maintain Interior Nonstructural	1	Extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and environmental impacts ar	NA
		2	Credit 2 **Construction Waste Management**	1 to 2	Divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources	
			1 50% Recycled or Salvaged	1	back to the manufacturing process and reusable materials to appropriate sites.	$ -
		2	Credit 3 **Materials Reuse**	1 to 2	Reuse building materials and products to reduce demand for virgin materials and reduce waste, lessening impacts from extraction and pro	NA
		2	Credit 4 **Recycled Content**	1 to 2	Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction a	$ -
		2	Credit 5 **Regional Materials**	1 to 2	Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use	
			1 10% of Material	1	of indigenous resources and reducing the environmental impacts resulting from transportation (10% of value from within 500 miles).	$ -
		1	Credit 6 **Rapidly Renewable Materials**	1	Reduce the use and depletion of finite raw materials and long cycle renewable materials by replacing them with rapidly renewable materia	NA
		1	Credit 7 **Certified Wood**	1	Environmentally responsible forest management (50% (based on cost) of wood-based materials and products that are certified in accordan	$ -
						$$
8	3	2	**INDOOR ENVIRONMENTAL QUALITY**	15	**Points**	
Y			Prereq 1 **Minimum Indoor Air Quality Performanc**	Req'd	Enhance indoor air quality (IAQ) performance in buildings for comfort and well-being of the occupants (Meet the minimum requirements	$ -
Y			Prereq 2 **Environmental Tobacco Smoke (ETS) Co**	Req'd	Prevent or minimize exposure of building occupants to environmental tobacco smoke. (Prohibit on-property smoking within 25 feet of ent	No Cost
		1	Credit 1 **Outdoor Air Delivery Monitoring**	1	Provide ventilation system monitoring to help promote occupant comfort and well-being (permanent monitoring systems to ensure that u	$ -
		1	Credit 2 **Increased Ventilation**	1	Provide additional outdoor air ventilation to improve indoor air quality (IAQ) and promote occupant comfort, well-being and productivity	$ -
		1	Credit 3.1 **Construction Indoor Air Quality Manage**	1	Reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well-being of construction	$ -
		1	Credit 3.2 **Construction Indoor Air Quality Manage**	1	Reduce indoor air quality (IAQ) problems resulting from construction, after all finishes have been installed and the building has been sampl	$ -
		1	Credit 4.1 **Low-Emitting Materials** - Adhesives and Seal	1	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and s	$ -
		1	Credit 4.2 **Low-Emitting Materials** - Paints and Coatings	1	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and s	$ -
		1	Credit 4.3 **Low-Emitting Materials** - Flooring Systems	1	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and s	$ -
		1	Credit 4.4 **Low-Emitting Materials** - Composite Wood and	1	Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and s	$ -
		1	Credit 5 **Indoor Chemical and Pollutant Source Co**	1	Minimize building occupant exposure to potentially hazardous particulates and chemical pollutants (minimize and control the entry of po	$ -
		1	Credit 6.1 **Controllability of Systems** - Lighting	1	Provide a high level of lighting system control by individual occupants or groups in multi-occupant spaces and promote their productivity,	$ -
		1	Credit 6.2 **Controllability of Systems** - Thermal Comfo	1	Provide a high level of thermal comfort system control by individual occupants or groups in multi-occupant spaces, and promote their pro	$ -
		1	Credit 7.1 **Thermal Comfort** - Design	1	Provide a comfortable thermal environment that promotes occupant productivity and well-being (comply with ASHRAE Standard 55-200	$ -
		1	Credit 7.2 **Thermal Comfort** - Verification	1	Provide for the assessment of building occupant thermal comfort over time (provide a permanent monitoring system).	NA
		1	Credit 8.1 **Daylight and Views** - Daylight	1	Provide building occupants with a connection between indoor spaces and the outdoors through the introduction of daylight and views into	$ -
		1	Credit 8.2 **Daylight and Views** - Views	1	Provide building occupants a connection to the outdoors through the introduction of daylight and views into the regularly occupied areas o	NA
						$$
2	0	4	**INNOVATION IN DESIGN**	6	**Points**	
			Credit 1.1 **Innovation in Design**	1 to 5		
			1 Innovation or Exemplary Performance	1	Educational Program	No Cost
			5 Innovation or Exemplary Performance	1		
		1	Credit 2 **LEED® Accredited Professional**	1		
						$$
2	0	2	**REGIONAL PRIORITY**	4	**Points**	
			Credit 1 **Regional Priority**	1 to 4		
			1 Regionally Defined Credit Achieved	1	SSc4.1 - Access to public transportation triggers Regional Priority Credit	See SSc4
			1 Regionally Defined Credit Achieved	1	EAc2 - Renewable Energy - 1% triggers Regional Priority Credit	See EAc2
						$$
69	18	43	**PROJECT TOTALS (Certification Estimate: 110 Points**			$$$

Certified: 40-49 points; Silver: 50-59 points; Gold: 60-79 points; Platinum: 80+ points

LEED 2009 for New Construction
Project Scorecard

Project Name:	Peekskill Fire Headquarters
Project Address:	Peekskill, NY

Possible Items	Yellow
Rejected Items	grey
Selected Items	White
	Rough Guess

Yes	?	No	MEASURES				NOTES	
19	**6**	**1**	**SUSTAINABLE SITES**			**26 Points**		**Cost**
Y			Prereq 1	**Construction Activity Pollution Prevention**		**Req'd**	Reduce pollution from construction activities by controlling erosion, waterway sedimentation and airborne dust generation	$ -
1			Credit 1	**Site Selection**		**1**	Avoid the development of inappropriate sites and reduce the environmental impact from the location of a building on a site.	No Cost
5			Credit 2	**Development Density and Community Connectivity**		**5**	Channel development to urban areas with existing infrastructure, protect greenfields, and preserve habitat and natural resources.	No Cost
	1		Credit 3	**Brownfield Redevelopment**		**1**	Rehabilitate damaged sites where development is complicated by environmental contamination and to reduce pressure on undeveloped land.	No Cost
6			Credit 4.1	**Alternative Transportation -** Public Transportation Access		**6**	Reduce pollution and land development impacts from automobile use (proximity to public transportation).	$ -
1			Credit 4.2	**Alternative Transportation -** Bicycle Storage and Changing Rooms		**1**	Reduce pollution and land development impacts from automobile use (bicycle racks & changing rooms).	$ 1,000
3			Credit 4.3	**Alternative Transportation -** Low-Emitting and Fuel-Efficient Vehicles		**3**	Reduce pollution and land development impacts from automobile use (preferred parking for low-emitting and fuel-efficient vehicles).	No Cost
	2		Credit 4.4	**Alternative Transportation -** Parking Capacity		**2**	Reduce pollution and land development impacts from automobile use (preferred parking for carpools or vanpools).	No Cost
		1	Credit 5.1	**Site Development -** Protect or Restore Habitat		**1**	Restore damaged areas to provide habitat and promote biodiversity (restore with native or adapted vegetation.	NA
	1		Credit 5.2	**Site Development -** Maximize Open Space		**1**	Promote biodiversity by providing a high ratio of open space to development footprint (open space exceeds local zoning requirements by 25%).	No Cost
1			Credit 6.1	**Stormwater Design -** Quantity Control		**1**	Limit disruption of natural hydrology by reducing impervious cover, increasing on-site infiltration, reducing or eliminating pollution from stormwater runoff and eliminating contaminants.	See WEc1
1			Credit 6.2	**Stormwater Design -** Quality Control		**1**	To limit disruption and pollution of natural water flows by managing stormwater runoff (removing 80% of the average annual post development total suspended) solids.	See WEc1
	1		Credit 7.1	**Heat Island Effect -** Nonroof		**1**	Reduce heat islands to minimize impacts on microclimates and human and wildlife habitats (SR>29 [concrete paving]).	$ -
1			Credit 7.2	**Heat Island Effect -** Roof		**1**	Reduce heat islands to minimize impacts on microclimates and human and wildlife habitats (light roof with SRI>78).	$ -
	1		Credit 8	**Light Pollution Reduction**		**1**	Minimize light trespass from the building and site, reduce sky-glow to increase night sky access, improve nighttime visibility through glare reduction and reduce development impact from lighting on nocturnal environments.	$ -
Yes	?	No						**$ 1,000**
8	**0**	**2**	**WATER EFFICIENCY**			**10 Points**		
						4		
Y			Prereq 1	**Water Use Reduction**		**Req'd**	Increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.	No Cost
4			Credit 1	**Water Efficient Landscaping**		**2 to 4**		
					Reduce by 50%	2	Limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for landscape irrigation (stored rain water).	
				4	No Potable Water Use or Irrigation	4		$ 50,000
2			Credit 2	**Innovative Wastewater Technologies**		2	Reduce wastewater generation and potable water demand while increasing the local aquifer recharge (stored rain water for truck washing - subterranean recharge galleys).	$ 20,000
2		2	Credit 3	**Water Use Reduction**		**2 to 4**	Further increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems (water saving fixtures).	
				2	Reduce by 30%	2		No Cost
Yes	?	No						**$ 70,000**
10	**12**	**13**	**ENERGY & ATMOSPHERE**			**35 Points**		
Y			Prereq 1	**Fundamental Commissioning of Building Energy Systems**		**Req'd**	Verify that the project's energy-related systems are installed, and calibrated to perform according to the owner's project requirements, basis of design and construction documents.	$ 30,000
Y			Prereq 2	**Minimum Energy Performance**		**Req'd**	Establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use (10% better).	$ -
Y			Prereq 3	**Fundamental Refrigerant Management**		**Req'd**	Reduce stratospheric ozone depletion (Zero use of chlorofluorocarbon (CFC)).	$ -
7	4	3	Credit 1	**Optimize Energy Performance**		**1 to 19**	Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use (goal is 24% reduction).	
				7	Improve by 24% for New Buildings or 20% for Existing Building R	7		$ -
1	1	5	Credit 2	**On-Site Renewable Energy**		**1 to 7**	Encourage and recognize increasing levels of on-site renewable energy self-supply to reduce environmental and economic impacts associated with fossil fuel energy use.	
				1	1% Renewable Energy	1	Domestic Hot Water - Small PV array, Pre-wire for future large PV array. Triggers EP	$ 20,000
					3% Renewable Energy	2		NA
					5% Renewable Energy	3		NA
					7% Renewable Energy	4		NA
					9% Renewable Energy	5		NA
					11% Renewable Energy	6		NA
					13% Renewable Energy	7		NA
	2		Credit 3	**Enhanced Commissioning**		**2**	Begin the commissioning process early in the design process and execute additional activities after systems performance verification is completed (Prior to the start of the construction documents phase, designate an independent commissioning authority (CxA) to lead, review and oversee the completion of all commissioning process activities).	$ 12,000

Yes	?	No	MEASURES		
17	8	1	SUSTAINABLE SITES		26
Y			Prereq 1	**Construction Activity Pollution Prevention**	Req'd
1			Credit 1	**Site Selection**	1
5			Credit 2	**Development Density and Community Connectivity**	5
	1		Credit 3	**Brownfield Redevelopment**	1
6			Credit 4.1	**Alternative Transportation -** Public Transportation Access	6
1			Credit 4.2	**Alternative Transportation -** Bicycle Storage and Changing Rooms	1
3			Credit 4.3	**Alternative Transportation -** Low-Emitting and Fuel-Efficient Vehicles	3
	2		Credit 4.4	**Alternative Transportation -** Parking Capacity	2
		1	Credit 5.1	**Site Development -** Protect or Restore Habitat	1
	1		Credit 5.2	**Site Development -** Maximize Open Space	1
	1		Credit 6.1	**Stormwater Design -** Quantity Control	1
	1		Credit 6.2	**Stormwater Design -** Quality Control	1
	1		Credit 7.1	**Heat Island Effect -** Nonroof	1
1			Credit 7.2	**Heat Island Effect -** Roof	1
	1		Credit 8	**Light Pollution Reduction**	1

Yes	?	No				
2	6	2	**WATER EFFICIENCY**			10
						4
Y			Prereq 1	**Water Use Reduction**		Req'd
	4		Credit 1	**Water Efficient Landscaping**		2 to 4
					Reduce by 50%	2
				4	No Potable Water Use or Irrigation	4
	2		Credit 2	**Innovative Wastewater Technologies**		2
2		2	Credit 3	**Water Use Reduction**		2 to 4
				2	Reduce by 30%	2

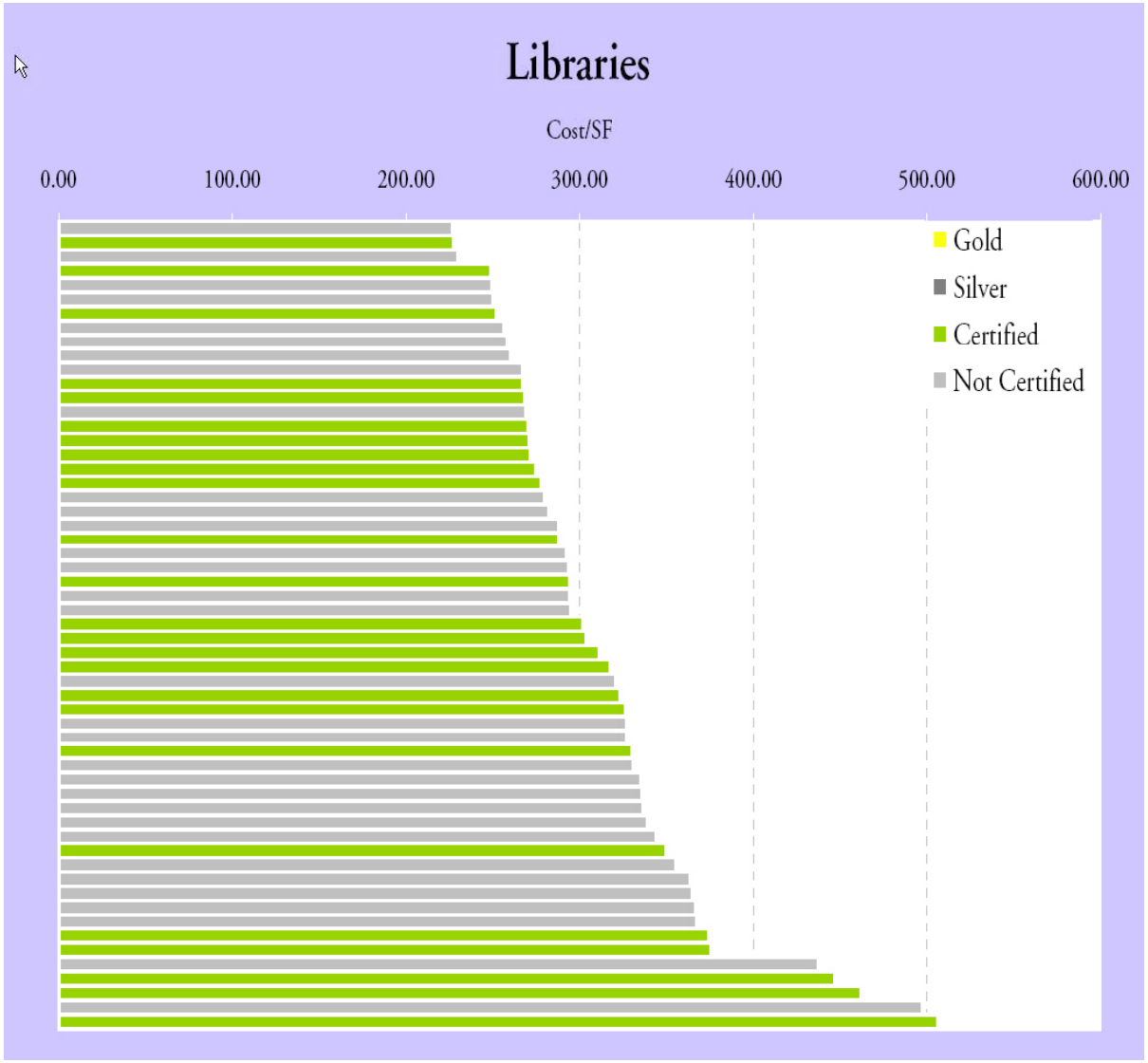
Yes	?	No				
12	10	13	**ENERGY & ATMOSPHERE**			**35**
Y			Prereq 1	**Fundamental Commissioning of Building Energy Systems**		**Req'd**
Y			Prereq 2	**Minimum Energy Performance**		**Req'd**
Y			Prereq 3	**Fundamental Refrigerant Management**		**Req'd**
7	4	8	Credit 1	**Optimize Energy Performance**		**1 to 19**
				7	Improve by 24% for New Buildings or 20% for Existing Buildin	7
1	1	5	Credit 2	**On-Site Renewable Energy**		**1 to 7**
				1	1% Renewable Energy	1
					3% Renewable Energy	2
					5% Renewable Energy	3
					7% Renewable Energy	4
					9% Renewable Energy	5
					11% Renewable Energy	6
					13% Renewable Energy	7
2			Credit 3	**Enhanced Commissioning**		**2**
2			Credit 4	**Enhanced Refrigerant Management**		**2**
	3		Credit 5	**Measurement and Verification**		**3**
	2		Credit 6	**Green Power**		**2**

2	2	10	**MATERIALS & RESOURCES**		14
Y			Prereq 1	**Storage and Collection of Recyclables**	Req'd
		3	Credit 1.1	**Building Reuse** - Maintain Existing Walls, Floors and Roof	1 to 3
		1	Credit 1.2	**Building Reuse** - Maintain Interior Nonstructural Elements	1
	1	1	Credit 2	**Construction Waste Management**	1 to 2
				1 50% Recycled or Salvaged	1
		2	Credit 3	**Materials Reuse**	1 to 2
	1	1	Credit 4	**Recycled Content**	1 to 2
1		1	Credit 5	**Regional Materials**	1 to 2
				1 10% of Materials	1
		1	Credit 6	**Rapidly Renewable Materials**	1
1			Credit 7	**Certified Wood**	1
Yes	?	No			

Yes	?	No			
11	3	1	**INDOOR ENVIRONMENTAL QUALITY**		15
Y			Prereq 1	**Minimum Indoor Air Quality Performance**	Req'd
Y			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Req'd
1			Credit 1	**Outdoor Air Delivery Monitoring**	1
1			Credit 2	**Increased Ventilation**	1
1			Credit 3.1	**Construction Indoor Air Quality Management Plan -** During Constru	1
1			Credit 3.2	**Construction Indoor Air Quality Management Plan** - Before Occupa	1
1			Credit 4.1	**Low-Emitting Materials -** Adhesives and Sealants	1
1			Credit 4.2	**Low-Emitting Materials -** Paints and Coatings	1
1			Credit 4.3	**Low-Emitting Materials -** Flooring Systems	1
	1		Credit 4.4	**Low-Emitting Materials -** Composite Wood and Agrifiber Products	1
	1		Credit 5	**Indoor Chemical and Pollutant Source Control**	1
1			Credit 6.1	**Controllability of Systems -** Lighting	1
1			Credit 6.2	**Controllability of Systems -** Thermal Comfort	1
1			Credit 7.1	**Thermal Comfort -** Design	1
1			Credit 7.2	**Thermal Comfort -** Verification	1
	1		Credit 8.1	**Daylight and Views -** Daylight	1
		1	Credit 8.2	**Daylight and Views -** Views	1

Yes	?	No				
4	**0**	**2**	**INNOVATION IN DESIGN**			**6**
3	0	2	Credit 1	**Innovation in Design**		**1 to 5**
				1	Innovation or Exemplary Performance	1
				1	Innovation or Exemplary Performance	1
				1	Innovation or Exemplary Performance	1
1			Credit 2	**LEED® Accredited Professional**		**1**
Yes	?	No				
2	**0**	**2**	**REGIONAL PRIORITY**			**4**
2		2	Credit 1	**Regional Priority**		**1 to 4**
				1	Regionally Defined Credit Achieved	1
				1	Regionally Defined Credit Achieved	1
Yes	?	No				
50	**29**	**31**	**PROJECT TOTALS (Certification Estimates)**			**110**
			Certified: 40-49 points Silver: 50-59 points Gold: 60-79 points Platinum: 80+			

Cost of LEED


Libraries
Cost/SF
0.00
100.00
200.00
300.00
400.00
500.00
600.00
Gold
Silver
Certified
Not Certified

8	0	2	WATER EFFICIENCY				10	
							4	
Y			Prereq 1	**Water Use Reduction**			**Req'd**	No Cost
4			Credit 1	**Water Efficient Landscaping**			**2 to 4**	
						Reduce by 50%	2	
					4	No Potable Water Use or Irrigation	4	$ 50,000
2			Credit 2	**Innovative Wastewater Technologies**			2	$ 20,000
2		2	Credit 3	**Water Use Reduction**			**2 to 4**	
					2	Reduce by 30%	2	No Cost
Yes	?	No						**$ 70,000**

NEW CONSTRUCTION PROGRAM INCENTIVES AND SERVICES FOR PROJECTS LOCATED IN CONSOLIDATED EDISON SERVICE TERRITORY

PON 1501

TECHNICAL ASSISTANCE		Cost of Service	Assumed Incentive		Customer Share	
Basic Technical Assistance Services			Non-LEED	LEED	Non-LEED	LEED
Energy Analysis: Requires the use of a consultant currently under contract to NYSERDA to assist applicants and their design teams to identify energy efficiency opportunities. (20,000 sq ft threshold for modelling).	NYSERDA will pay the first $5,000 and will cost share 50% of the balance up to a total contribution of $75,000.	$ 30,000	$ 17,500	$ 17,500	$ 12,500	$ 12,500
	NYSERDA will increase the maximum funding amount for technical services by an additional $25,000 ($100,000 total) to identify Demand Response opportunities.	Funding is Exhausted for This Incentive				
Green Building Services						
NYSERDA will provide financial assistance for the applicant's green building consultant for projects seeking green building assistance. Applicants may use a green building consultant of their choice or NYSERDA can help identify a provider for these services.	For green building technical services on projects that achieve LEED® or NY-CHPS certification, NYSERDA will pay an additional amount equal to NYSERDA's share of energy analysis TA services, up to a total additional NYSERDA contribution of $25,000.	$ 30,000	NA	$ 17,500	$ 30,000	$ 12,500
Building Commissioning Services						
NYSERDA will provide financial assistance for the applicant's commissioning consultant for projects seeking commissioning assistance. Applicants may use a commissioning provider of their choice, or NYSERDA can help identify a consultant for these services.	Commissioning is required if incentive award is over $100,000. Commissioning is also required for all lighting systems that incorporate advanced daylighting dimming or switching controls. NYSERDA will increase its financial incentives by 10% to offset the applicant's cost of commissioning, up to a maximum NYSERDA contribution of $25,000.	$ 30,000	$ 1,750	$ 3,500	$ 28,250	$ 26,500
Design Team Incentives (for Whole Building Design and Green Buildings projects)						
1. Designs 3% to 9% above designated baseline*	1. $25 per peak summer kW saved, maximum $3,400					
2. Designs 9.1% to 16% above designated baseline*	2. $40 per peak summer kW saved, maximum $5,000					
3. Designs 16.1% to 23% above designated baseline*	3. $55 per peak summer kW saved, maximum $6,700		$ 6,700	6700	$ (6,700)	$ (6,700)
4. Designs 23.1% to 30% above designated baseline*	4. $70 per peak summer kW saved, maximum $10,000					
5. Designs 30.1% or more above designated baseline*	5. $90 per peak summer kW saved, maximum $15,000					

	Cost of Service	Assumed Incentive		Customer Share	
* Designated baseline is ASHRAE/IESNA 90.1-2007		Non-LEED	LEED	Non-LEED	LEED
TOTALS>>>	**$ 90,000**	**$ 25,950**	**$ 45,200**	**$ 64,050**	**$ 44,800**

	Selected	Maybe
Possible Total Cost Increase	$ 258,000	$ 394,579
Potential Cost Increase Percentage	2.5%	3.8%
Possible Total Cost Increase	$	652,579
Potential Cost Increase Percentage	6.2%	