Retrofit Program

nationalgrid

40 Sylvan Road, Waltham, MA 02451-1120 Tel: 1-800-787-1706 / Fax: 781-522-1069 E-mail: business@us.ngrid.com www.nationalgridus.com

The Retrofit Program is designed for commercial and industrial customers to help replace aging, inefficient equipment and systems with energy efficient technologies. The Retrofit Program provides a customer with incentives and technical services that will facilitate the installation of premium efficient equipment. Call National Grid to arrange a convenient time to perform an inspection of the existing equipment or systems.

Prescriptive Retrofit Application & Instructions

For Replacement of Operating Equipment

1. Is your project eligible?

• Equipment shall be new and shall be installed in a commercial, industrial, institutional, educational, or municipal building within an electric National Grid's service territory

2. Is the equipment you intend to buy eligible?

• Product types listed in this form are eligible for prescriptive incentives. However, other measures not listed here may be eligible for custom incentives using the Custom Retrofit Application

3. Pre-Approval requirements:

- · Contact your National Grid representative before purchasing and installing the equipment
- To see if the energy efficient measure (EEM) qualifies for an incentive:
 - i. Review the Terms and Conditions governing the program, then submit a completed application form with an authorized signature
 - ii. Submit a copy of the Manufacturer's technical specification sheets ("cut sheets") for each type of eligible equipment to be purchased
 - iii. Once pre-approved, a "pre-approved incentive letter" will be issued

4. Installation and incentive requirements:

- Once pre-approved, purchase and install the qualifying equipment within twelve (12) months of National Grid's pre-approval
- Return the required information to your National Grid representative within 30 days of the installation:
 - i. A copy of the completed and signed pre-approval application
 - ii. If there is a change in equipment, please submit a new manufacturer's technical specification sheets ("cut sheets") for each type of eligible equipment purchased
 - iii. A copy of your invoice indicating Proof of Purchase must indicate type, size, make, and model number of the equipment and date of purchase and installation
 - iv. At the post-installation verification, the customer is required to sign the post-installation customer acknowledgement section of the original application

Program details:

This incentive program covers applications created on or after January 28, 2010. Details of this Program, including incentive levels, are subject to change without prior notice. Contact National Grid for the latest program details.

RETROFIT

Lighting – Systems & Controls

national**grid**

The power of action.

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Customer Information

COMPANY NAME			APPLICATION D	_ APPLICATION DATE						
INSTALLATION SITE			PHONE NUMBE	PHONE NUMBER						
CONTACT PERSON			FAX NUMBER	FAX NUMBER						
E-MAIL ADDRESS			SQ. FT. (covered	_ SQ. FT. (covered by this application)						
STREET ADDRESS			СІТҮ	STA	TE ZIP					
MAILING ADDRESS (if different)			СІТҮ	STA	TE ZIP					
ELECTRIC COMPANY NAME				DUNT # (or copy of electric bil	I)					
GAS COMPANY NAME			GAS ACCOUNT	# (or copy of gas bill)						
BUILDING TYPE: (select one) TO	AL FACILIT	Y SQ. FT								
Assembly Fast Food Automobile Full Servi Big Box Grocery Community College Heavy Inc Dormitory Hospital		☐ Large Refrigerated Space ☐ Large Office	Multifamily low-rise	Multifamily high-rise K-12 Schools University						
		P a y m e	nt Method							
CHECK PAYABLE TO: Custome Fill in data below Vendor/I										
TAX ID#		COMPANY TYPE: (Check one: 🔿 Incorpora	ated, 🔿 Not Incorpo	orated, 🔿 Exempt					
		V e n d o r	Information	- -	- -					
VENDOR/INSTALLER			STREET ADDRE	SS						
CONTACT PERSON										
			CITY	STA	TE ZIP					
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Lighting Systems and Controls - Eligibility Requirements and Incentive Details

The following table lists the incentives available for energy efficient lighting improvements.

Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities which must average a minimum of 1,000 hours.* All Fluorescent Fixtures must have new T8 or T5 lamps and new electronic ballasts. All Fluorescent Fixtures with High Performance (HP) T8 lamps and ballasts must meet or exceed the Consortium for Energy Efficiency's (CEE) High Performance T8 or Reduced Wattage T8 specification. For detailed eligibility requirements and a list of qualifying lamps and ballasts, please log onto CEE's web site at www.cee1.org.

Table 1A: Lighting Systems Eligibility and Incentives										
Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image					
10*Re-lamp/re-ballast of existing fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 or T-5 lamps and HP/RW T-8 Electronic Ballasts\$10		\$10	Re-lamp/re-ballast of existing fixtures with T-8 or T-5 lamps, each fixture is composed of a ballast and 1, 2, 3 or 4 lamps. Only one incentive may be counted per fixture. Multiple fixtures served by a single ballast are only eligible for one incentive. Consider using reduced wattage 25 and 28 T8 CEE qualified lamps/ ballasts.	11	Color Hand					
12*	Re-lamp/re-ballast of existing fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 or T-5 lamps and HP/RW T-8 Electronic Ballasts	\$15	Re-lamp/re-ballast of existing fixtures with opportunity for increased savings for Measure Code 12 with increased watts saved of 23 watts or greater. Recommend using reduced wattage 25 and 28 T8 CEE qualified lamps/ballasts.	23						
30A *	High Efficiency 2 lamp Prismatic Lensed Fluorescent Fixtures – 2x2 or 2x4	\$25	 Overall fixture efficiency must be ≥: 83% for 2x4 prismatic lensed fixture with two T-8 or T-5 lamps; 75% for 2x2 prismatic lensed fixture with two T-8 or T-5 lamps (Biax lamps are not eligible). 	27						
30B *	High Efficiency 2 lamp Parabolic Fluorescent Fixtures – 2x2 or 2x4	\$40	 Overall fixture efficiency must be ≥: - 80% for 2x4 fixture with parabolic louver (2" to 3" deep cells) with two T-8 or T5 lamps; - 80% for 2x2 fixture with parabolic louver (2" to 3" deep cells) with two T-8 or T5 lamps (Biax lamps are not eligible). 	27						
30C *	High Efficiency up to 2 lamp Recessed Indirect/Direct Fluorescent Fixtures – 2x2 or 2x4	\$40	 Overall fixture efficiency must be ≥ : 75% for 2x4 recessed indirect/direct fixture with two T-8 or T-5 lamps; 75% for 2x2 recessed indirect/direct fixture with two T-8, T-5, or T5HO lamps (Biax lamps are not eligible); 80% for 2x2 advanced glare reducing diffuser fixture with one or two T-8, T-5, T-5HO lamps (Biax lamps are not eligible). 	27						
31 *	High Efficiency 3 lamp Fluorescent Fixtures – 2x4	\$25	 Overall fixture efficiency must be ≥: 83% for 2x4 prismatic lensed fixture with three T-8 or T-5 lamps; 75% for 2x4 fixture with parabolic louver (2" to 3" deep cells) with three T-8 or T5 lamps; 70% for 2x4 recessed indirect fixture with three T-8 or T-5 lamps; Eligible fixtures are limited to 3 lamps with a low power ballast factor < 0.80. 	31						

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
32*	High Efficiency Recessed Fluorescent 2 lamp Retrofit Kits – 2x2 and 2x4	\$45	 Overall fixture efficiency must be ≥: - 85% for 2x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8 or T-5 lamps; - 80% for 2x2 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8, T-5, or T-5HO lamps (biax lamps and reflector kits are not 	27	
34*	Advanced Recessed Fluorescent Fixtures 1x4 or 2x4	\$50	 Nit with two 1-8, 1-5, or 1-5HO lamps (blax lamps and reflector kits are not eligible). Overall fixture efficiency must be ≥: - 85% for 2x4 advanced glare reducing diffuser fixture with one or two T-8 or T-5 lamps, or one T-5HO lamp; - 80% for 1x4 advanced glare reducing diffuser fixture with one or two T-8 or T-5 lamps, or one T-5HO lamp. 	33	
41 *	Industrial/Commercial Fluorescent Fixtures – 4 ft. and 8 ft. Fixtures	Commercial Fluorescent Fixtures – \$30 Overall fixture efficiency must be ≥:			
43 *	Vapor Tight. Fluorescent Fixtures– 4 ft. and 8 ft. Fixtures	\$50	Overall fixture efficiency must be ≥ : -70% for Vapor Tight fluorescent fixture with one or two T-8, T-5, T-8HO, T-5HO or 3-T8 lamps. Typically installed in garage, warehouse, food prep and other industrial applications	45	P
44 *	Clean Room Rated Fluorescent Fixtures – 1x4 or 2x4	\$50	Overall fixture efficiency must be \geq : -75% for Clean Room fluorescent fixture with up to three T-8 or T-5 lamps. To be eligible for incentives, fixtures must be installed in a clean room rated environment.	27	
21	Compact Fluorescent Fixture (long tube CFL or Biax fixtures eligible)	\$15	To be eligible for incentives, all fixtures must be hard-wired and have electronic ballasts with <33% THD. All long tube CFL or Biax fixtures are eligible under this measure category. (Retrofit kits and screw-in adapters not eligible)	35	
23	Dimmable Compact Fluorescent Fixture	\$30	To be eligible for incentives, all fixtures must be hard-wired and have electronic ballasts with <33% THD. (Retrofit kits and screw-in adapters are not eligible)	35	

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
25	LED or LEC (Electroluminescence) Exit Fixtures	\$10	All materials and assembled units shall comply with all applicable codes and standards including (but not limited to) Federal/State/Local building, fire, and electrical codes, and may require designated egress lighting to comply with such codes. Exit sign retrofit kits are not eligible.	15	EXII
51	Pulse Start Metal Halide Lamp and Electronic Ballast Kits	\$50	All kits must include a new matched Pulse Start Metal Halide Lamp and Electronic Ballast installed per manufacturer's specifications and applicable codes. Indoor and Outdoor fixtures are eligible.	50	
52	Pulse Start Metal Halide Fixture with Electronic Ballast	\$70	Only New Metal Halide Pulse Start fixtures with Electronic Ballasts are eligible. Retrofit of existing metal halide fixture of less than 200 watts with new fixture is not eligible. Indoor and Outdoor fixtures are eligible.	64	
56*	High Intensity Fluorescent Fixtures (HIF) for High and Low Bay Applications (less than or equal to 210W)	\$70	Minimum wattage is 111 Watts and Maximum wattage is 210 Watts. Minimum fixture efficiency must exceed 80%. Recommended mounting height > 16 feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T-8, T-5, T-5HO and compact fluorescent. Low power ballasts are not eligible.	55	
57 *	High Intensity Fluorescent Fixtures (HIF) for High and Low Bay Applications (greater than 210W)	\$100	Minimum wattage is greater than 210 Watts. Minimum fixture efficiency must exceed 80%. Recommended mounting height > 20 feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T-8, T-5, T-5HO and compact fluorescent. Low power ballasts are not eligible.	85	
70	Metal Halide Specialty Lighting Hard Wired Fixtures with Electronic Ballast	\$50	Metal Halide Specialty Fixtures maybe track, recessed or surface mounted and used for high quality display type lighting. Must be approved by UL or similar agency.	55	
71	Integral Metal Halide PAR Replacement Lamp	\$12	Install an Integral Metal Halide PAR replacement lamps, not to exceed 25W PAR38 lamp or similar.	27	

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	Image
80	LED Downlight Fixtures- Hard Wired	\$50	This incentive only applies to hardwired LED fixtures on Energy Star's list (for more information see <u>www.energystar.gov</u>)	25	
81A	Integral LED Directional Replacement Lamps- MR16 & PAR16	\$15	Eligible LED Directional Integral replacement lamps for these reflector styles: MR16 and PAR16. Eligible lamps are required to be listed by Energy Star. (for more information see <u>www.energystar.gov</u>)	12	
81B	Integral LED Directional Replacement Lamps – PAR20, PAR30 AND PAR38	\$35	Eligible LED Directional Integral replacement lamps for these reflector styles: PAR20, PAR30S, PAR30L and PAR38. Eligible lamps are required to be listed by Energy Star (for more information see <u>www.energystar.gov</u>	25	
82A	LED Cooler or Freezer Case Fixtures – 5' Fixture	\$50	Eligible LED Cooler and Freezer Case fixtures are required to be listed by Energy Star or DesignLights Consortium (for more information see <u>www.energystar.gov</u> and <u>www.designlights.org</u>)	30	
82B	LED Cooler Freezer Case Fixtures – 6' Fixture	\$65	Eligible LED Cooler and Freezer Case fixtures are required to be listed by Energy Star or DesignLights Consortium (for more information see <u>www.energystar.gov</u> and <u>www.designlights.org</u>)	40	
83	LED Low Bay Fixtures- Garage and Canopy Fixtures	\$150	Eligible LED Low Bay fixtures are required to be installed in 8,760 hour applications and be listed by Energy Star or DesignLights Consortium (for more information see <u>www.energystar.gov</u> and <u>www.designlights.org</u>)	60	0
*			Note: 4ft straight tube T8 lamps and ballasts must meet the Consortium for En Performance / Reduced Wattage (HP/RW) T8 specifications. For eligibility requi lamps and ballasts, log onto CEE's web site at www.cee1.org.		
			Note: 2ft and 3ft, T8 lamps must have a minimum efficacy of 75 mean lumens per w average rated life of 24,000 hours at 3 hours per start.	vatt, a CRI	greater than 80 and a
			4ft -30 watt U-bent T8 lamps must have a minimum efficacy of 79 mean lume 80 and an average rated life of 18,000 hours at 3 hours per start.	ns per wa	tt, a CRI greater than
			2ft, 3ft and 4ft 30 watt U-bent T8 ballasts must meet the CEE's High Performan	nce T8 Bal	last Specifications.

Measure Code	Measure Description	Per Control Incentive	Eligibility Criteria	Min Controlled Wattage	Image
61	Remote Mounted Occupancy Sensor	\$60	Comply with manufacturer's coverage recommendations. Ceiling mounted control. No manual "ON" overrides	110	
62	Daylight Dimming System (DDS-FL)	\$25 (per fixture)	Must have continuous dimming or adjust to a minimum of 4 levels. Typical lamping is either a 30 watt or 32 watt T-8 lamps.	53 (per fixture)	
63	Occupancy Controlled Step-Dimming System	\$20 (per fixture)	Ballast must be automatically controlled based on occupancy. Power consumption in low mode must not exceed 60%.	53 (per fixture)	A Line Line Line Line Line Line Line Line
64A	Wall Mounted Occupancy Sensors	\$25	Occupancy Sensors must operate as Automatic ON and OFF . Sensors are wall mounted devices only. Not eligible if installed in restrooms, locker rooms, stairwells or rooms of greater than 250 square feet	51	
64B	Wall Mounted Vacancy Occupancy Sensors	\$30	Vacancy Sensors must operate as Manual ON , Automatic OFF . Sensors are wall mounted devices only. Not eligible if installed in restrooms, locker rooms, stairwells or rooms of greater than 250 square feet	51	
65	Photocell Sensors (lighting systems on 24/7)	\$50	Photocell control for lighting systems that operate on 24 hours a day, 7 days a week (8,760 hours annually)	70	
68	High Bay Fluorescent (HIF) Occupancy Control Systems	\$25 (per fixture)	Ballasts must be automatically controlled based on occupancy. Systems with manual "ON" or override switches are not eligible. Sensors may be remote mounted or mounted on individual fixtures	110 (per fixture)	

Table 1C: Retrofit Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): ____

Line Item	Location	Existing/ Proposed	Measure Code (Table 1A)	Device Code	Watts per Fixture (Watts per Device)*	Annual Hours of Operation*	Minimum Watts Saved	kWh Savings	Device Quantity (a)	Unit Incentive \$ (b)	Total Incentive \$ (a) x (b)
E.	Deem 202 first fleer	Existing	_	3F0SEE	90	_	_		8		
Ex	Room 202, first floor	Proposed	10	2F32SSE	60	3100	30		8	\$ 10	\$ 80
		Existing	—								
		Proposed									
		Existing	—								
		Proposed									
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		Proposed									
		Existing	—								
		Proposed									
		Existing	_								
		Proposed									
	1	1	1	1	1		· [Total Request	ed Incentive	e (this page) \$	

* Facility lighting must average a minimum of 2,000 hours per year, except Municipal Facilities which must average a minimum of 1,000 hours.

Table 1D: Retrofit Lighting Control Inventory Worksheet

Building and Room Identification (Installation Site): __

			Quantity of Controls (or ballast	Minimum Required	num ired	Quantity of Devices	Watts	Annual	Minimum Connected Watts Verification		Wattage Test	Unit	Total
Line Item	Measure Code (Table 1B)	Device Description/Location	for Codes 62 & 63) (A)	Required Connected Watts per Control (B)	Device Code	Controlled (C)	Per Device (D)	Hours of Reduction *	Required (A x B)	Actual (C x D)	(Actual > Required, Y or N)	Incentive \$ (E)	Incentive \$ (A) x (E)
Ex.	61	Remote-Mounted Occ Sens. (OS) Building 5, Room 202	2	119	2F32SSE	10	60	1200	228	600	Y	\$ 60	\$ 120
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													<u> </u>
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						Total Requested Incentive (this page) \$							

* The estimated annual hours that affected lighting system operates.