



STATE OF NEW JERSEY
Board of Public Utilities
44 South Clinton Avenue, 9th Floor
Post Office Box 350
Trenton, New Jersey 08625-0350
www.nj.gov/bpu/

CLEAN ENERGY

IN THE MATTER OF THE NEW JERSEY CLEAN)	AMENDED ORDER¹
ENERGY PROGRAM AUTHORIZATION OF)	
COMMERCIAL AND INDUSTRIAL (C&I) PROGRAM)	
ENERGY EFFICIENCY INCENTIVES EXCEEDING)	
\$500,000)	DOCKET NOS.
)	
RUTGERS UNIVERSITY)	QG14121438
)	
THE GOLDMAN SACHS GROUP INC.)	QG14121439

Parties of Record:

Michael Kornitas, Director of Sustainability and Energy, Rutgers University
Richard Budinich, Engineering Manager, the Goldman Sachs Group Inc

BY THE BOARD:

The New Jersey Board of Public Utilities' (the Board) Commercial & Industrial (C&I) Energy Efficiency Program includes nine (9) individual programs targeting the commercial and industrial market segments, consisting of New Construction, Retrofit, Pay for Performance - New Construction, Pay for Performance - Existing Buildings, Local Government Energy Audit, Direct Install, Small Combined Heat and Power (CHP) and Fuel Cells (FC), Large Energy Users Program, and the Societal Benefits Charge Credit Program. These programs collectively offer financial incentives to encourage the installation of energy efficient products and technologies. Eligible applicants may receive incentives for a portion of the cost of installing energy efficient technologies such as lighting, heating, ventilation and air conditioning, water heating and other measures in new or existing buildings.

In this order, the Board considers the applications of Rutgers University (Rutgers) and of the Goldman Sachs Group (Goldman Sachs), for financial incentives under the Large Energy Users Program. All proposed C&I energy efficiency financial incentives and rebates exceeding \$500,000 require explicit Board approval. See I/M/O the Comprehensive Energy Efficiency and Renewable Energy Resource Analysis for the 2009 through 2012 Clean Energy Program – Revised 2012-2013 Programs & Budgets – Revised Rebate Approval Process, Docket. No. EO07030203 (May 3, 2013).

¹ The Board Order dated 1/21/15 inadvertently included the wrong attachments.

The purpose of the Large Energy Users Program (LEUP) is to foster self-investment in energy efficiency and CHP projects, while providing necessary financial support to large commercial and industrial utility customers in the State of New Jersey. Incentives are awarded to customers that satisfy the program's eligibility and program requirements to invest in self-directed energy projects customized to meet the requirements of the customer's existing facilities, while also advancing the State's energy efficiency, conservation, and greenhouse gas reduction goals. To qualify, eligible entities must have contributed a minimum of \$300,000 into New Jersey's Clean Energy Program fund in fiscal year 2014 defined from July 1, 2013 through June 30, 2014 (aggregate of all buildings/sites).

Rutgers, located in Piscataway in Middlesex County, submitted an application for a financial incentive in the amount of \$1,153,952.02 under the Fiscal Year 2014 LEUP, for projects located at thirty-six facilities in Camden, Newark, New Brunswick and Piscataway, NJ. The specific locations are identified in the market manager's certification. At these facilities, Rutgers proposes to upgrade its interior lighting from tubular fluorescents, compact fluorescents, and incandescent to reduced-wattage fluorescents and light-emitting diodes (LEDs), along with the installation of occupancy sensor controls. Rutgers also proposes to upgrade the motors in the heating, ventilation, and air conditioning, vacuum, and domestic water supply systems with higher efficiency models. Installing these measures will reduce the annual electric usage by an estimated 5,145,199 kWh. Overall, the proposed projects will have an estimated annual energy cost savings of \$617,424.03 at a total project cost of \$1,538,602.69. The applicant will also realize an operational and maintenance savings of \$49,555.90 per year. The simple payback period when factoring in the avoided operational and maintenance costs is 2.3 years.

Goldman Sachs, located in Jersey City, Hudson County, has submitted an application for a financial incentive in the amount of \$595,913.37 under the Fiscal Year 2014 LEUP, for projects located at its facilities at: 1300 Federal Boulevard, in Carteret; 765 US Highway 202, in Bridgewater; and 30 Hudson Street, in Jersey City. At the Carteret facility, Goldman Sachs proposes upgrading its lighting from metal halide to LED, installing variable frequency drives (VFDs) on computer room air handler fans, installing VFDs on chilled water primary pumps and condenser water pumps, converting parallel water-side economizers to integrated economizers, and optimizing its chiller plant through the addition of dynamic controls. At the Bridgewater facility, Goldman Sachs proposes to convert from metal halide lighting to LEDs, upgrade the cooling system in its data center, and convert parallel water-side economizers to integrated economizers. At the Jersey City facility, the Goldman Sachs proposes to retrofit VFDs on its computer room air handler supply fans. Installing these measures will reduce the annual electric usage by an estimated 4,624,720 kWh. Overall, the proposed projects will have an estimated annual energy cost savings of \$597,457 at a total project cost of \$2,142,101, but will realize an increase in operational and maintenance costs of \$5,730. The simple payback period for the project is 3.6 years.

TRC, the Market Manager engaged by the Board to manage the New Jersey Clean Energy Program (NJCEP) C&I energy efficiency programs, submitted certifications providing that the incentives for which TRC now seeks approval were calculated in accordance with the program policies and procedures, and that the listed amounts are the true and accurate estimated incentives for which the applicants are eligible. Further, Applied Energy Group, in its role as the NJCEP Program Coordinator, reviewed the applications and submitted certifications that the incentives for which TRC now seeks approval were calculated in accordance with the program policies and procedures, and that the listed amounts are the true and accurate estimated incentives for which the applicants are eligible. Based on these certifications and the

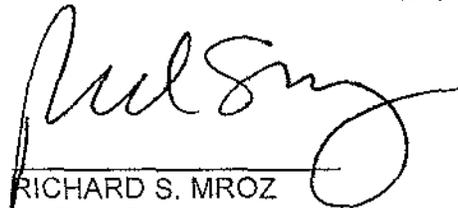
information provided by the Market Manager and Program Coordinator, Board Staff recommends that the Board approve the above-referenced applications.

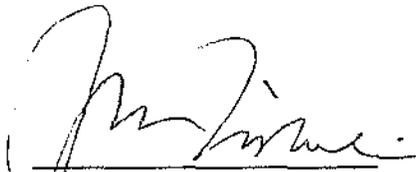
The Board **HEREBY ORDERS** the approval of the aforementioned application for the total estimated incentive amount of \$1,153,952.02 for Rutgers, and \$595,913.37 for Goldman Sachs, and **AUTHORIZES** issuance of standard commitment letters to the applicants setting forth the terms and conditions of these commitments.

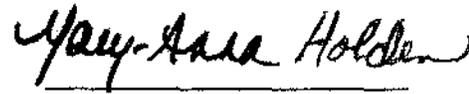
The effective date of this Order is February 2, 2015.

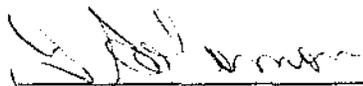
DATED: 2/2/15

BOARD OF PUBLIC UTILITIES
BY:


RICHARD S. MROZ
PRESIDENT

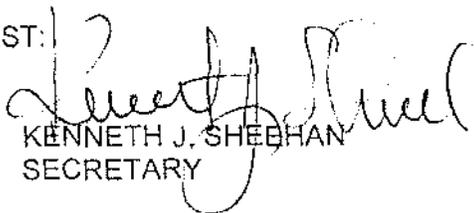

JOSEPH L. FIORDALISO
COMMISSIONER


MARY-ANNA HOLDEN
COMMISSIONER


DIANNE SOLOMON
COMMISSIONER


UPENDRA J. CHIVUKULA
COMMISSIONER

ATTEST:


KENNETH J. SHEEHAN
SECRETARY

I HEREBY CERTIFY that the within document is a true copy of the original as the Board of Public Utilities



IN THE MATTER OF THE NEW JERSEY CLEAN ENERGY PROGRAM AUTHORIZATION OF
COMMERCIAL AND INDUSTRIAL (C&I) PROGRAM ENERGY EFFICIENCY INCENTIVES
EXCEEDING \$500,000 – RUTGERS UNIVERSITY & THE GOLDMAN SACHS GROUP INC
DOCKET NOS. QG14121438 & QG14121439

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Market Manager Certification
(New Incentive Commitments > \$500,000)

I, Carl Teter, hereby certify that applications on the attached list have been reviewed by TRC or its subcontractors as required by the policies and procedures applicable to each program, that the incentives for which TRC now seeks approval to commit have been calculated in accordance with those policies and procedures, and that the listed amounts are the true and accurate estimated incentives for which each applicant is eligible.

By:



Carl P. Teter, P.E., LEED AP, Associate Vice President
App# L16260

Date:

12-17-14

1. Application Number: **L16260**
2. Program Name: **FY14 Large Energy Users Program**
3. Customer Contact (name, company, address, phone #):
Michael Kornitas, Director of Sustainability and Energy
Rutgers University
6 Berrue Circle
Piscataway, NJ 08854
(848) 445-3726
4. Project Name and Address:
1 Robert Wood Johnson Place, New Brunswick, NJ
101 Warren St., Newark, NJ
110 Bergen St., Newark, NJ
110 Warren St., Newark, NJ
123 Washington St., Newark, NJ
125 Paterson St., New Brunswick, NJ
180 University Ave, Newark, NJ
183 South Orange Ave., Newark, NJ
185 South Orange Ave., Newark, NJ
185 University Ave., Newark, NJ
190 University Ave., Newark, NJ
195 University Ave, Newark, NJ
197 University Ave, Newark, NJ
217 N 5th St., Camden NJ
217 N 6th Str. Camden, NJ
225 University Ave., Newark, NJ
249 University Ave., Newark, NJ
295 Norfolk St., Newark, NJ
303 Cooper Street, Camden NJ
311 N 5th St., Camden NJ
314 Linden St., Camden, NJ
315 Penn St., Camden NJ
327 Cooper Street, Camden NJ
360 ML King Jr. Boulevard, Newark, NJ
401 Cooper Street, Camden NJ
401 N 4th St., Camden, NJ
406 Penn St., Camden, NJ
411 Cooper Street, Camden NJ
427/429 Cooper St., Camden, NJ
65 Bergen St., Newark, NJ
675 Hoes Lane West, Piscataway, NJ
683 Hoes Lane West, Piscataway, NJ

73 Warren St., Newark, NJ
81 New Street., Newark NJ
89 French St., New Brunswick, NJ
90 Bergen St., Newark, NJ

5. Rebate amount: **\$1,153,952.02**
6. Brief description of measures:
 - 1) **Lighting Upgrades Newark, Piscataway, Camden:** Interior lighting replacements from T12, T8, CFL and incandescent to reduced wattage fluorescents and LEDs with installation of occupancy sensor controls
 - 2) **Motor Upgrades Newark, Piscataway, Camden:** Replacement of fan and pump motors in building HVAC, vacuum and domestic water supply systems
7. Annual Estimated Energy Savings: **5,145,199 kWh**
8. Annual Estimated Energy Cost Savings: **\$617,424.03**
9. Project cost: **\$1,538,602.69**
10. Operational and Maintenance Savings: **\$49,555.90**
11. Simple Payback Period: **2.3 years**

**Program Coordinator Certification
(New Incentive Commitments > \$500,000)**

I, **Maura Watkins**, hereby certify that in its role as Program Coordinator, Applied Energy Group, Inc. has reviewed the referenced below, as required by the policies and procedures applicable to each program, that the standardized equipment incentives for which TRC now seeks approval to commit have been calculated in accordance with those policies and procedures, and that the amount shown below is the true and accurate estimated incentive for which the applicant(s) is(are) eligible.

For incentives based on uniquely calculated estimated energy savings, including the Custom Program, Pay for Performance, Combined Heat & Power and Large Energy Users Program, Applied Energy Group certifies locating documentation supporting the inputs used to calculate the rebate amount and evidencing TRC's evaluation of those inputs as required by the program's policies and procedures.

Maura H Watkins

By: _____

Date: 12-19-2014

Maura Watkins

Quality Assurance Manager - Applied Energy Group, Inc.

Ref: _____
App # L16260

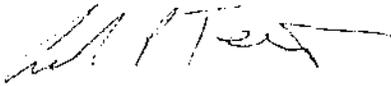
Applicant Rutgers University

Payee Rutgers University

Committed Amount: \$1,153,952.02

Market Manager Certification
(New Incentive Commitments > \$500,000)

I, Carl Teter, hereby certify that applications on the attached list have been reviewed by TRC or its subcontractors as required by the policies and procedures applicable to each program, that the incentives for which TRC now seeks approval to commit have been calculated in accordance with those policies and procedures, and that the listed amounts are the true and accurate estimated incentives for which each applicant is eligible.



By: _____ Date: 12-23-14
Carl P. Teter, P.E., LEED AP, Associate Vice President
App# L16261

1. Application Number: **L16261**
2. Program Name: **FY14 Large Energy Users Program**
3. Customer Contact (name, company, address, phone #):
Richard Budinich, Engineering Manager
The Goldman Sachs Group Inc
30 Hudson Street, 40th Floor
Jersey City, NJ 07302
(917) 343-0180
4. Project Name and Address:
1300 Federal Blvd., Carteret, NJ 07008
765 US Highway 202, Bridgewater, NJ 08807
30 Hudson St., Jersey City, NJ 07302
5. Rebate amount: **\$595,913.37**
6. Brief description of measures:
Carteret:
 1. Warehouse lighting conversion from metal halide to LED
 2. VFDs on computer room air handler fans
 3. VFDs on chilled water primary pumps and condenser water pumps
 4. Convert parallel water-side economizer to integrated economizer
 5. Chiller plant optimization through addition of dynamic controlsBridgewater:
 6. Warehouse lighting conversion from metal halide to LED
 7. Cold-aisle containment in data center
 8. Convert parallel water-side economizer to integrated economizerJersey City:
 9. Retrofit VFDs on computer room air handler supply fans
7. Annual Estimated Energy Savings: **4,624,720 kWh**
8. Annual Estimated Energy Cost Savings: **\$597,457**
9. Project Cost: **\$2,142,101**
10. Operational and Maintenance Savings: **-\$5730**
11. Simple Payback Period: **3.6 years**

Program Coordinator Certification
(New Incentive Commitments > \$500,000)

I, **Maura Watkins**, hereby certify that in its role as Program Coordinator, Applied Energy Group, Inc. has reviewed the referenced below, as required by the policies and procedures applicable to each program, that the standardized equipment incentives for which TRC now seeks approval to commit have been calculated in accordance with those policies and procedures, and that the amount shown below is the true and accurate estimated incentive for which the applicant(s) is(are) eligible.

For incentives based on uniquely calculated estimated energy savings, including the Custom Program, Pay for Performance, Combined Heat & Power and Large Energy Users Program, Applied Energy Group certifies locating documentation supporting the inputs used to calculate the rebate amount and evidencing TRC's evaluation of those inputs as required by the program's policies and procedures.

Maura H Watkins

By: _____

Date: 12-22-2014

Maura Watkins

Quality Assurance Manager - Applied Energy Group, Inc.

Ref:

App #

L16261

Applicant

Goldman Sachs

Payee

The Goldman Sachs Group Inc.

Committed Amount: \$595,913.37