



Agenda Date: 8/23/17
Agenda Item: 8B

STATE OF NEW JERSEY
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, New Jersey 08625-0350
www.nj.gov/bpu/

CLEAN ENERGY

IN THE MATTER OF THE CLEAN ENERGY PROGRAM)
AUTHORIZATION OF COMMERCIAL AND INDUSTRIAL) ORDER
PROGRAM ENERGY EFFICIENCY INCENTIVES)
EXCEEDING \$500,000 – GOLDMAN SACHS) DOCKET NO. QG17070754

Parties of Record:

Jacob Moon, Senior Manager, Projects, Infrastructure Planning & Engineering, the Goldman Sachs Group, Inc.
Stefanie A. Brand, Esq., Director, Division of Rate Counsel

BY THE BOARD:

The New Jersey Board of Public Utilities (Board) through its New Jersey Clean Energy Program (NJCEP) includes several individual Commercial & Industrial (C&I) Energy Efficiency (EE) Programs targeting the commercial and industrial market segments. Eligible applicants may receive rebates for a portion of the cost for installing energy efficient technologies such as lighting, HVAC and other energy conservation measures. All proposed C&I EE 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, BPU Dkt. No. EO07030203 (May 3, 2013).

By this Order, the Board considers the application of the Goldman Sachs Group, Inc. (Goldman Sachs), submitted under the FY16 Large Energy Users Program (LEUP) pursuant to the Energy Efficiency and Renewable Energy Program Plan Filing for the fiscal year 2016 dated April 27, 2016, for projects located at 30 Hudson Street, Jersey City, Hudson County; and at 1300 Federal Boulevard, Carteret, Middlesex County. This project's incentives are within the entity cap, based on the application approval date.

Under LEUP, incentives will be awarded to customers that satisfy the program's eligibility and program requirements to invest in self-directed energy projects that are customized to meet the requirements of the customers' existing facilities, while advancing the State's energy efficiency, conservation, and greenhouse gas reduction goals. To qualify under LEUP guidelines in effect

at the time of application, eligible entities must have contributed a minimum of \$300,000.00 into New Jersey's Clean Energy Program fund in the fiscal year prior to the application date (aggregate of all buildings/sites).

Goldman Sachs has submitted an application for a total financial incentive of \$581,525.00. At the Jersey City facility, the scope of the project includes chiller plant optimization, variable frequency drive (VFD) retrofits on supply air fans, and speed reduction of supply fans. At the Carteret facility, the scope of the project includes VFD retrofit of supply fans and chiller plant optimization.

Installing these measures at the Jersey City and Carteret facilities will collectively result in annual electric savings by an estimated 2,559,199 kWh and an annual estimated electric peak demand reduction of 293 kW. There are no natural gas savings associated with this project. The proposed project will have an estimated annual energy cost savings of \$236,777.00 and a total project cost of \$859,817.00. The payback period without incentives is 3.63 years; and when factoring in the incentives, the payback period is reduced to 1.05 years.

TRC Environmental Corporation, the Program Manager engaged by the Board to manage the NJCEP LEUP program, submitted its certification that the incentive was calculated in accordance with the program policies and procedures, and that the listed amount is the true and accurate estimated incentive for which the applicant is eligible. Further, Applied Energy Group,¹ in its role as the NJCEP Program Administrator, also reviewed the application and submitted its certification that the incentive was calculated in accordance with the program policies and procedures, and that the listed amount is the true and accurate estimated incentive for which the applicant is eligible. Based on these certifications and the information provided by the Program Manager and Program Administrator, Board Staff recommends that the Board approve the above-referenced application.

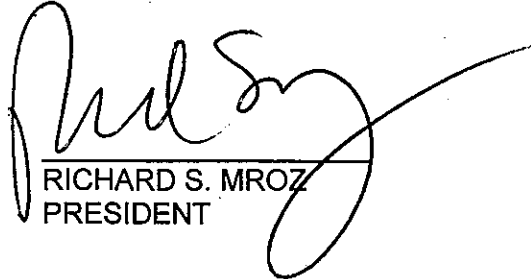
The Board **HEREBY ORDERS** the approval of the aforementioned application for the total estimated incentive amount \$581,525.00 for Goldman Sachs, and **AUTHORIZES** issuance of a standard commitment letter to the applicant identified above, setting forth the terms and conditions of this commitment.

¹ On January 13, 2017, TRC Environmental Corporation acquired the NJCEP Program Administrator Contract from Applied Energy Group, Inc. (AEG) and assumed AEG's rights and duties thereunder.

The effective date of this Order is September 2, 2017.

DATED: 8/23/17

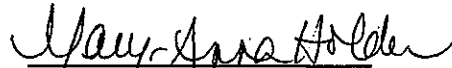
BOARD OF PUBLIC UTILITIES
BY:




RICHARD S. MROZ
PRESIDENT



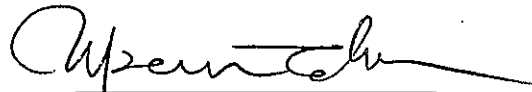
JOSEPH L. FIORDALISO
COMMISSIONER



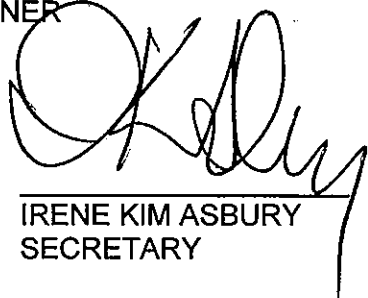
MARY-ANNA HOLDEN
COMMISSIONER



DIANNE SOLOMON
COMMISSIONER

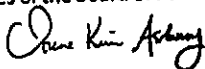


UPENDRA J. CHIVUKULA
COMMISSIONER

ATTEST: 

IRENE KIM ASBURY
SECRETARY

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



IN THE MATTER OF THE CLEAN ENERGY PROGRAM AUTHORIZATION OF
COMMERCIAL AND INDUSTRIAL (C&I) PROGRAM ENERGY EFFICIENCY INCENTIVES
EXCEEDING \$500,000 – THE GOLDMAN SACHS GROUP, INC.
DOCKET NO. QG17070754

SERVICE LIST

Michael Ambrosio
TRC Energy Solutions
317 George Street, Suite 520
New Brunswick, NJ 08901
mambrosio@trcsolutions.com

James Nappi
TRC Energy Solutions
317 George Street, Suite 520
New Brunswick, NJ 08901
jnappi@trcsolutions.com

Caroline Vachier, Esq.
Deputy Attorney General
Division of Law
Department of Law & Public Safety
124 Halsey Street
Post Office Box 45029
Newark, NJ 07102-45029
Caroline.vachier@law.njoag.gov

Brian DeLuca
TRC Solutions
900 Route 9 North, Suite 104
Woodbridge, NJ 07095
bdeluca@trcsolutions.com

Carl Teter
TRC Solutions
900 Route 9 North, Suite 104
Woodbridge, NJ 07095
cteter@trcsolutions.com

Valentina Rozanova
TRC Solutions
900 Route 9 North, Suite 104
Woodbridge, NJ 07095
vrozanova@trcsolutions.com

Irene Kim Asbury, Esq.
Secretary of the Board
Office of the Secretary
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, NJ 08625-0350
Irene.asbury@bpu.nj.gov

Marisa Slaten, Director
Economic Development & Energy Policy
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, NJ 08625-0350
marisa.slaten@bpu.nj.gov

Elizabeth Teng
Office of Clean Energy
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, NJ 08625-0350
Elizabeth.teng@bpu.nj.gov

Sherri Jones
Office of Clean Energy
Board of Public Utilities
44 South Clinton Avenue, 3rd Floor, Suite 314
Post Office Box 350
Trenton, NJ 08625-0350
Sherri.jones@bpu.nj.gov

Veronica Beke
Deputy Attorney General
Division of Law
Department of Law & Public Safety
124 Halsey Street
Post Office Box 45029
Newark, NJ 07102-45029
Veronica.beke@law.njoag.gov

Jacob Moon
Senior Manager, Projects
Infrastructure Planning & Engineering
The Goldman Sachs Group, Inc.
30 Hudson Street
Jersey City, NJ 07302

Stefanie A. Brand, Esq., Director
Division of Rate Counsel
140 East Front Street, 4th Floor
Post Office Box 003
Trenton, NJ 08625-0003
sbrand@rpa.state.nj.us

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

I, **Maura Watkins**, TRC Solutions Quality Control, hereby certify that, I have reviewed the application referenced below and determined that, as required by the policies and procedures applicable to the program, (1) the equipment incentives for which the NJCEP Program Manager now seeks approval to commit NJCEP funds have been calculated in accordance with those policies and procedures, and (2) that the amount shown below is the true and accurate estimated incentive for which the applicant(s) is(are) eligible.

Additionally, for incentives based on estimated energy savings that are uniquely calculated, including the Pay for Performance Program, Large Energy Users Program, and the Combined Heat and Power Program, I also certify that I was able to locate and review documentation supporting the inputs used to calculate the rebate amount and evidencing the NJCEP Program Manager's evaluation of those inputs as required by the program's policies and procedures.

Maura H Watkins

By: _____

Date: 06-23-2017

Maura Watkins

Quality Control – TRC Solutions

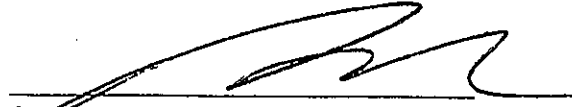
Application No.: 41479

Applicant: The Goldman Sachs Group, Inc.


Payee: The Goldman Sachs Group, Inc.

Committed Amount: \$581,525.00

The undersigned preparer attests that, to the best of their knowledge and belief, the above information is accurate and the subject project application adheres to the current terms and conditions of the Large Energy Users program.



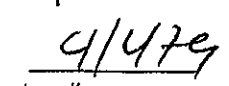
Signature of Preparer



Date



Name of Preparer



App#

1. Application Number: **41479**
2. Program Name: **FY16 Large Energy Users Program**
3. Customer Contact (name, company, address, phone #):

**The Goldman Sachs Group, Inc.
Jacob Moon, Infrastructure Planning & Engineering
30 Hudson Street
Jersey City, NJ 07302
(212) 357-6223**

4. Project Name and Address:

1. **30 Hudson**
30 Hudson Street
Jersey City, NJ 07302
 - **Chiller Plant Optimization**
 - **CRAH VFD Retrofit 8th Floor ETC Lab**
 - **CRAH VFD Retrofit of UPS Rooms on Floors 12 and 12M**
2. **Carteret**
1300 Federal Boulevard
Carteret, NJ 07008
 - **CRAH VFD Retrofit for Ancillary Spaces**
 - **Chiller Plant #1 Optimization**

5. Rebate amount: **\$581,525.00**

6. Brief description of measures:

1. **30 Hudson Street – Chiller Plant Optimization**
Add new control points to existing BMS including kW metering of pumps and cooling towers and full communication with each of the chillers to allow for improved efficiency on a real-time basis as a function of variables such as outdoor wet bulb temperature and facility cooling load.
2. **30 Hudson Street – CRAH VFD Retrofit 8th Floor ETC Lab**
Retrofit 10 HP supply air fans on (10) chilled water CRAH units serving the ETC Lab on 8th floor with variable frequency drives. VFDs allow the fans to operate at speeds less than 100% while maintaining necessary minimum airflow.
3. **30 Hudson Street - CRAH VFD Retrofit of UPS Rooms on Floors 12 and 12M**
Reduce speed of (12) supply fans by replacing sheaves on chilled water CRAH units serving the UPS rooms on floors 12 and 12M. (8) units have 7.5 HP motors and (4) have 5 HP constant speed motors. Installation of a smaller sheave reduces fan speed and energy use.

4. Carteret - CRAH VFD Retrofit for Ancillary Spaces

Retrofit constant speed supply fans on CRAH units serving North Point-of-Presence Room, South Point-of-Presence room, VTR room, tape library and VAR. The fans in CRAH units serving these spaces total 100 HP. Install VFDs on the supply air fans to allow them to operate at less than 100% speed while maintaining necessary minimum airflow.

5. Carteret – Chiller Plant #1 Optimization

Add new control points to existing BMS including kW metering of pumps and cooling towers and full communication with each of the chillers to allow for improved efficiency on a real-time basis as a function of variables such as outdoor wet bulb temperature and facility cooling load.

7. Annual Estimated Energy Savings:

2,559,199 kWh
293 peak demand
0 therms

8. Annual Estimated Energy Cost Savings: \$236,777.00

9. Project cost: \$859,817.00

10. Operational and Maintenance Savings: \$0

11. Simple Payback Period: 3.63 years without incentive; 1.05 years with incentive