



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 CLEAN ENERGY PROGRAM)
AUTHORIZATION OF COMMERCIAL AND)
INDUSTRIAL (C&I) PROGRAM ENERGY EFFICIENCY)
INCENTIVES EXCEEDING \$300,000 – LAKEWOOD)
TOWNSHIP BOARD OF EDUCATION) **ORDER**

DOCKET NO. EO11070430V

Parties of Record:

Robert Finger, Lakewood Twp Board of Education

BY THE BOARD:

The New Jersey Board of Public Utilities' (the "Board") SMARTSTART Buildings Program ("SSBP" or "SMARTSTART"), Direct Install Program and Pay-for-Performance Program offer financial incentives to New Jersey property owners 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, HVAC, water heating or other measures in new or existing buildings.

Lakewood Township Board of Education, Lakewood, NJ, has submitted an application for a monetary incentive in the amount of \$776,605 under the Pay-for-Performance program, for a project located at 855 Somerset Avenue, Lakewood, NJ. The first estimated incentive, for the energy reduction plan ("ERP") is \$29,500. The estimated second incentive, for certain measures (including lighting upgrades, installation of heat recovery measures in the school's main gymnasium, domestic hot water conversion from electric to gas, installation of temperature setback controls in classrooms, installation of CO2 sensors in the library, installation of occupancy sensors, installation of heat recovery measures in locker rooms, and energy efficient upgrades to outdoor parking lot lighting) is \$449,374, and the estimated third incentive for the one year true up of the ERP is \$297,731. This application has an estimated 47.7% total energy savings and will save the customer an annual estimate of 2,265,823.5 kWh of electricity and an annual estimated demand reduction of 250 kW. However, due to the conversion from electricity to gas, the project will result in an increase of 3,703 MMBtu of natural gas. Nevertheless, the electric savings outweigh the increase in gas consumption and will result in the aforementioned 47.7% energy savings. Overall, this application will have an estimated annual energy cost savings of \$305,625.

TRC, the Market Manager engaged by the Board to manage the New Jersey Clean Energy Program C&I energy efficiency programs, has submitted a certification that the incentive for which TRC now seeks approval to commit have been 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, in its role as the NJCEP Program Coordinator, has reviewed the application and submitted a certification that the incentive for which TRC now seeks approval to commit has been calculated in accordance with the program policies and procedures, and that the listed amount is the true and accurate estimated incentive for which each applicant is eligible. Based on the above, the Staff recommends that the Board approve the above referenced application.

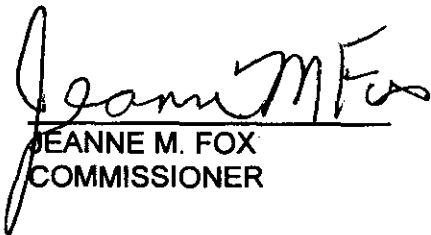
The Board **HEREBY ORDERS** the approval of the aforementioned application for the total estimated incentive amount of \$776,605 and **AUTHORIZES** issuance of a standard commitment letter to the applicant identified above, setting forth the terms and conditions of this commitment.

DATED: 2/18/11

BOARD OF PUBLIC UTILITIES
BY:



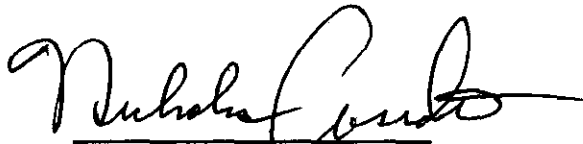
LEE A. SOLOMON
PRESIDENT



JEANNE M. FOX
COMMISSIONER



JOSEPH L. FIORDALISO
COMMISSIONER



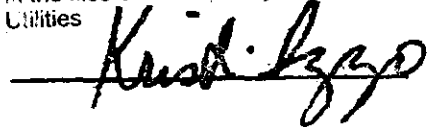
NICHOLAS ASSELTA
COMMISSIONER

ATTEST:



CARMEN DIAZ
ACTING 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 \$300,000 – LAKEWOOD TWP BOARD OF EDUCATION
DOCKET NO. EO11070430V

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**Program Coordinator Certification
(New Incentive Commitments > \$300,000)**

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 and Pay for Performance, 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: 07-18-2011

Maura Watkins

Quality Assurance Manager - Applied Energy Group, Inc.

Ref: _____
App # 09619 Lakewood Twp Board of Education ()

Committed Amount: \$776,605.00

1. Application Number: 09619
2. Program Name: Pay for Performance- Existing Buildings
3. Name of applicant and city: Lakewood Board of Education- High School
4. Project Address: 855 Somerset Avenue, Lakewood, New Jersey 08701

5. Rebate amount:
Incentive #1: \$29,500
Incentive #2: \$449,374
Incentive #3: \$297,731
Total: \$776,605

6. Brief description of measures

Measure #1 –Lighting Upgrades: replacing existing low efficiency incandescent lighting with compact fluorescent lighting (CF) and fluorescent T12 and T8 with more efficient T8 with lower power electronic ballast.

Measure #2 –Heat Recovery in Main Gymnasium: one new AAON Energy Recovery Unit (ERU) consisting of a heat wheel with 10HP supply and 3HP exhaust fans.

Measure #3 –Domestic Hot Water Conversion from Electric to Gas: adding three 95% efficient gas fired/condensing DHW heaters to the existing domestic hot water circulation for the Cafeteria and Girls and Boys Locker Rooms.

Measure #4 –Temperature Setbacks in Classrooms Type 1 and 2: retro commissioning and upgrading the existing school-wide control to achieve central monitoring and control through an operator workstation. Once this is achieved, the temperature set points and the schedules for off-hours temperature setbacks are programmed to achieve maximum energy conservation.

Measure #5 –CO2 Control in the Library: installing a CO2 sensor in the return plenum for MZU #4 and #5 and installing a motor operator on existing (or installing new) dampers to control the quantity of outside air based on CO2 content.

Measure #6 –Occupancy Sensors: installing occupancy sensors in all areas where more than one lighting fixture is present.

Measure #7 – Heat Recovery in Locker Rooms: two new AAON Energy Recovery Units (ERUs) consisting of a heat wheel, each with 3HP supply and 1.0HP exhaust fans

Measure #8 – Outdoor Lighting: replacing all parking lot lighting with new LED fixtures which are substantially more energy efficient than the existing metal halide.

7. Annual Estimated Energy Savings:

Annual kWh savings: 2,265,823.5

kW savings: 250

Annual MMBtu savings: -3,703 (*electric to gas heating conversion results in increased gas use, and decreased electric use*)

8. Annual Estimate Energy Cost Savings: **\$305,625**