

RESOLUTION
of the
BOROUGH OF NEW PROVIDENCE
Resolution No. 2015-254

Council Meeting Date: 07-13-2015

Date Adopted: 07-13-2015

TITLE: RESOLUTION APPROVING SCOPE OF WORK FOR TRI-STATE LIGHT AND ENERGY FOR THE DIRECT INSTALL PROGRAM, NEW PROVIDENCE BOROUGH – SENIOR CITIZENS CLUB

Councilperson Kapner submitted the following resolution, which was duly seconded by Councilperson Muñoz.

BE IT RESOLVED by the Mayor and Council of the Borough of New Providence, in the County of Union and State of New Jersey, that they do hereby approve the Scope of Services for Tri-State Light and Energy for the Direct Install Program, in the form attached hereto.

BE IT FURTHER RESOLVED by the Mayor and Council of the Borough of New Providence in the County of Union and State of New Jersey, that they do further authorize and direct the Mayor and Borough Clerk to execute same on behalf of the Borough of New Providence.

APPROVED, this 13th day of July, 2015.

RECORD OF VOTE

	AYE	NAY	ABSENT	NOT VOTING
GALLUCCIO	X			
GENNARO	X			
KAPNER	X			
MADDEN	X			
MUÑOZ	X			
ROBINSON	X			
MORGAN			TO BREAK COUNCIL TIE VOTE	

I hereby certify that the above resolution was adopted at a meeting of the Borough Council held on the 13th day of July, 2015.

Wendi B. Barry, Borough Clerk



New Jersey Office of Clean Energy Direct Install Program Energy Assessment Tool (ver. 8.5)



General Project Information

Participating Customer:	New Providence Borough	
Contractor / Project #:	Tri-State	TSU5368
Facility Name:	New Providence Borough-Senior Citizens Club	
Street Address:	110 Livingston Ave	
City / Zip Code:	New Providence	07974
Will the project receive EECBG funding?:	Y	
Is this facility publicly owned?:	Y	

Facility Type:	Other
Total Facility Square Footage:	
Avg Weekly Hrs of Operation:	
# of Full-Time Employees:	
Year Constructed:	
Tax Exempt?:	Y

ELECTRIC UTILITY INFORMATION

Electric Provider:	<Select Electric Provider>
Service Class:	
Account #:	
Billing Period Start Date:	Estimated
Billing Period End Date:	Estimated
Billing Period kWh Consumption:	1,000
Billing Period Total Cost:	\$150.00
Total Taxes + Fees on Bill:	

GAS UTILITY INFORMATION

Gas Provider:	<Select Gas Provider>
Service Class:	
Account #:	
Billing Period Start Date:	Estimated
Billing Period End Date:	Estimated
Billing Period Therm Consumption:	100
Billing Period Total Cost:	\$100.00
Total Taxes + Fees on Bill:	

Project Summary

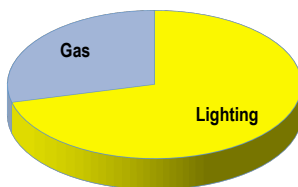
Electric - Average Cost (\$/kWh): **\$0.150**

Gas - Average Cost (\$/Therm): **\$1.00**

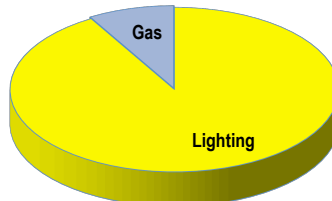
	kWh Saved per		Total Measure Cost	Estimated Incentive Amount	Total Cost to Customer	Simple Payback (Yrs)
	Year	Annual Savings				
Lighting Measures Total:	24,666	\$ 3,699.86	\$ 19,555.13	\$ 13,688.59	\$ 5,866.54	1.59
Motors & VFD Measures Total:	-	\$ -	\$ -	\$ -	\$ -	0.00
HVAC Electric Measures Total:	-	\$ -	\$ -	\$ -	\$ -	0.00
Refrigeration Measures Total:	-	\$ -	\$ -	\$ -	\$ -	0.00
TOTAL ELECTRIC MEASURES:	24,666	\$ 3,699.86	\$ 19,555.13	\$ 13,688.59	\$ 5,866.54	1.59
Therms /yr.						
TOTAL GAS MEASURES:	342	\$ 342.05	\$ 328.24	\$ 229.77	\$ 98.47	0.29
Gallons/yr.						
TOTAL OIL MEASURES:	-	\$ -	\$ -	\$ -	\$ -	0.00
Oil Gallons/yr. Gas Therms/yr.						
CONVERSION MEASURES:	-	\$ -	\$ -	\$ -	\$ -	0.00
(OIL TO GAS) Gallons/yr.						
TOTAL PROPANE MEASURES:	-	\$ -	\$ -	\$ -	\$ -	0.00
COMBINED PROJECT TOTALS:						
	\$ 4,041.91	\$ 19,883.37	\$ 13,918.36	\$ 5,965.01	1.48	

PROJECT TRC TEST: **1.01**

Projected Energy Savings Per Measure Category



Projected Dollar Savings Per Measure Category



Estimated Reduction in Total Energy Consumption

100.0%



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Scope of Work

The work to be performed by the Participating Contractor in connection with the Project shall be comprised of the below listed Measures in the estimated quantities listed:

<u>Measure Description / Location</u>	<u>Quantity</u>	<u>Total</u>	<u>Estimated</u>	<u>Estimated</u>
	<u>To Be</u>	<u>Measure</u>	<u>Customer</u>	<u>Incentive</u>
	<u>Installed</u>	<u>Cost</u>	<u>Total Cost</u>	<u>Amount</u>
Direct Line LED - 2-Lamp - 4-Foot / Lobby	8	\$ 807.29	\$ 242.19	\$ 565.10
LED: BR30 (12W) /	2	\$ 128.28	\$ 38.48	\$ 89.79
Direct Line LED - 2-Lamp - 4-Foot / Men's Restroom	2	\$ 201.82	\$ 60.55	\$ 141.28
Direct Line LED - 2-Lamp - 4-Foot / Women's Restroom	2	\$ 201.82	\$ 60.55	\$ 141.28
Direct Line LED - 2-Lamp - 2-Foot / Dining	16	\$ 1,529.09	\$ 458.73	\$ 1,070.36
LED: BR30 (12W) /	13	\$ 833.81	\$ 250.14	\$ 583.67
LED: A-Lamp (8W) /	4	\$ 188.00	\$ 56.40	\$ 131.60
LED: BR30 (12W) / Sun Room	14	\$ 1,029.80	\$ 308.94	\$ 720.86
Direct Line LED - 2-Lamp - 4-Foot / Kitchen	3	\$ 302.73	\$ 90.82	\$ 211.91
Direct Line LED - 4-Lamp - 4-Foot / Storage	1	\$ 163.08	\$ 48.92	\$ 114.15
Direct Line LED - 2-Lamp - 4-Foot / Multi-Purpose Room	36	\$ 4,134.27	\$ 1,240.28	\$ 2,893.99
LED: BR30 (12W) /	12	\$ 882.69	\$ 264.81	\$ 617.88
LED: BR30 (12W) /	5	\$ 320.70	\$ 96.21	\$ 224.49
LED: BR30 (12W) /	8	\$ 513.11	\$ 153.93	\$ 359.18
LED: BR30 (12W) / Corridor	3	\$ 192.42	\$ 57.73	\$ 134.69
Direct Line LED - 2-Lamp - 4-Foot / Mechanical	1	\$ 114.84	\$ 34.45	\$ 80.39
Direct Line LED - 2-Lamp - 4-Foot / Storage (Locked)	1	\$ 100.91	\$ 30.27	\$ 70.64
Direct Line LED - 2-Lamp - 4-Foot / Multi-Purpose Room	8	\$ 807.29	\$ 242.19	\$ 565.10
Direct Line LED - 2-Lamp - 4-Foot / Multi-Purpose Room	8	\$ 807.29	\$ 242.19	\$ 565.10
Direct Line LED - 2-Lamp - 4-Foot /	1	\$ 100.91	\$ 30.27	\$ 70.64
Direct Line LED - 2-Lamp - 4-Foot / Office	2	\$ 201.82	\$ 60.55	\$ 141.28
Direct Line LED - 2-Lamp - 4-Foot / Library	4	\$ 403.64	\$ 121.09	\$ 282.55
LED: BR30 (12W) /	1	\$ 64.14	\$ 19.24	\$ 44.90
Direct Line LED - 2-Lamp - 4-Foot / Closet	1	\$ 100.91	\$ 30.27	\$ 70.64
LED: A-Lamp (13W) / Garage	6	\$ 378.39	\$ 113.52	\$ 264.88
Direct Line LED - 4-Lamp - 4-Foot /	1	\$ 163.08	\$ 48.92	\$ 114.15
LED Outdoor Wall Mounted Luminaires - 60W /	1	\$ 595.44	\$ 178.63	\$ 416.81
LED Architectural Flood and Spots - 40W /	1	\$ 428.64	\$ 128.59	\$ 300.05
LED Outdoor Wall Mounted Luminaires - 60W / Building Perimeter	1	\$ 595.44	\$ 178.63	\$ 416.81
LED Outdoor Wall Mounted Luminaires - 60W /	1	\$ 560.52	\$ 168.16	\$ 392.36
LED: PAR38 (14W) /	6	\$ 417.25	\$ 125.17	\$ 292.07
LED: PAR38 (17W) / Rear	6	\$ 451.02	\$ 135.30	\$ 315.71
LED Pole Mounted Luminaires - 90W / Parking Lot	2	\$ 1,663.45	\$ 499.03	\$ 1,164.41
Dual Tech Occ. Sensor Wall Switch / Office	1	\$ 171.25	\$ 51.37	\$ 119.87
Faucet Aerators (lavatory) / Restrooms	4	\$ 262.59	\$ 78.78	\$ 183.81
Faucet Aerators (kitchen) / Kitchen	1	\$ 65.65	\$ 19.69	\$ 45.95
TOTALS**		\$ 19,883.37	\$ 5,965.01	\$ 13,918.36

**Maximum incentive amount per project is \$125,000. Measures that would qualify the project for funding through the State Energy Program (SEP) are identified above with an 'S'. If any "SEP measures" are included then the total incentive amount for all measures will be paid with SEP funds, otherwise the total incentive amount will come from NJ Clean Energy funds.

Direct Install Contractor Checklist

Application #: TSU5368

Applicant Company Name: New Providence Borough

- Lighting assessed and included in the EAT
- Explored possibilities of adding lighting controls
- Motors assessed and included in the EAT
- Explored possibilities of adding Variable Frequency Drives
- HVAC (electric cooling) assessed and included in the EAT
- HVAC (gas heating) assessed and included in the EAT

Comments:

Projects need to meet certain screening criteria established by the New Jersey Direct Install program administrator. For this project to qualify for the program, the following measures were eliminated.

- (1) MBTUh Storage Water Heater (≤ 50 Gal): Gas (15 years old)

Note: Both A/C condensing units on the roof (CAE075HBA & CA5090VHA3) are not being used and in the off position. Linesets are cut below near furnaces.

Note: BDP Condensing unit (566B090RCU (7.5 ton) is connected to (2) 95% Goodman Furnaces. The old coil is being reused. Cannot replace system under the NJDI program, not an approved measure.

NOTE: American Standard Condensing unit (6C0036A300A3) is not being used at this time.

Contractor Signature

Applicant Signature

NJ DIRECT INSTALL NOTES & EXCLUSIONS

LIGHTING NOTES:

1.) In some cases, existing light levels in your facility may be higher than necessary when compared to current recommended lighting standards. To maximize your savings *and* provide a comfortable work environment, upgrades included in your Scope of Work may reduce lighting levels in your building. Please speak with your Direct Install account representative if you have any questions.

2.) New 2-lamp luminaires are not a formal upgrade option in the Direct Install software but in many cases we need them to optimize your savings and lighting environment. We often include new 2-lamp luminaires in your assessment by calling them 3-lamp and then adjusting for the correct cost and wattage to determine savings and program eligibility. *It is highly likely that any 3-lamp new fixture upgrades in your Scope of Work are actually intended to be 2-lamp.*

3.) This Scope of Work assumes that all lighting equipment operates on voltages between 120V and 277V. If any lighting fixtures included in this scope operate at 480 volts, there will be additional costs that are not covered by the Direct Install program.

HVAC EXCLUSIONS:

Structural: This proposal excludes structural engineering, structural drawings, and structural steel work. Due to the nature of this project, you may be responsible for supplying a set of structural drawings to include with the permit package for approval. This proposal does not include the cost for any service needed above.

Railings: This proposal excludes safety railings or seismic strapping if required by code. Code requires HVAC equipment to be at least 10' away from the edge of the roof. If less than 10', you may be required to install a safety railing to pass code.

Fire Alarm: This proposal excludes wiring of HVAC smoke detectors to a building's fire alarm system. This must be completed by a certified fire alarm contractor.

CAPACITY REWARDS – MORE MONEY FOR YOU

A good deal gets better...

...and we think we may have found some more money for you!

Did you know that energy efficiency projects such as yours help lower demand on our region's electric grid? And the people that manage our grid, PJM, might pay for your demand savings? It's true. Through their Capacity Market Auction, PJM might pay for reducing your demand on the grid. We would like to help you receive those payments.

But we need your permission. Remember, if you do not claim your payments, PJM gets to keep them anyway.

Yes, I would like to receive payments for my demand savings!

_____ assigns the capacity rights of any demand savings created from the energy efficiency project to Tri-State Light & Energy, Inc, who will offer the demand savings into the PJM capacity market through a PJM Member. Any revenue received from PJM capacity market auctions will be allocated and disbursed by the PJM Member.

Signature

Date

Print Name

Title

No thanks.

I have enough money already and I don't want any more. Let PJM keep it.

Signature

Date