

**SALEM COUNTY IMPROVEMENT AUTHORITY
RESOLUTION 2018-41
May 10, 2018**

**RESOLUTION OF THE SALEM COUNTY IMPROVEMENT AUTHORITY
AUTHORIZING PARTICIPATION IN THE NEW JERSEY CLEAN ENERGY
DIRECT INSTALL PROGRAM**

WHEREAS, there exists a need in the administrative office and the maintenance garage for electrical and HVAC system upgrades to efficiently use and conserve natural resources, and to replace units that are no longer working; and

WHEREAS, the Executive Director has done due diligence and has obtained a partial grant for this necessary work; and

WHEREAS, the total cost for all equipment upgrades and replacements for the administrative office is \$21,361.00 and the total cost of the equipment upgrades and replacements for the maintenance garage is \$15,235.95; and

WHEREAS, the grant requires that the Salem County Improvement Authority ("SCIA") contribute 30% of the cost of the equipment and the Program will contribute 70% of the cost; therefore, the cost to SCIA for the maintenance garage work is \$4,570.78 and the total cost to SCIA for the administrative office work is \$6,408.30; and


WHEREAS, in accordance with N.J.A.C. 50:30-5.4, the Chief Financial Officer of SCIA has certified in writing that adequate funds are available from the 01-05-120-514 line item of the Authority Operating Budget;

NOW, THEREFORE, BE IT RESOLVED by the Salem County Improvement Authority Board as follows:

1. The SCIA Board authorizes the Executive Director to enter into an agreement with the New Jersey Clean Energy Program as described in the attached two documents.
2. The SCIA Board authorizes SCIA to contribute 30% of the cost of the project in the amount of \$4,570.78 for the maintenance garage and \$6,408.30 for the administrative office.

ATTEST:


Barry Davis, Secretary


Cordy Taylor, Chairman

CERTIFICATION

I hereby certify the above to be a true copy of a resolution adopted by the Salem County Improvement Authority Board at their regular meeting held May 10, 2018.


Barry Davis, Secretary



**DIRECT INSTALL PROGRAM
PARTICIPATION AGREEMENT
SCOPE OF WORK ATTACHMENT**

FS0456

"Parties":

Participating Customer*:	<u>Salem Co Improvement Authority</u>			
Participating Contractor*:	<u>FSG</u>			
Facility Name*:	<u>SCIA-Solid Waste Division</u>			
Facility Address:	<u>Mc Killip Rd</u>	<u>Mannington ,</u>	<u>NJ</u>	<u>08079</u>
	Street	City		Zip

*as listed on Application

When fully signed, this Scope of Work Attachment ("Attachment") shall become part of the Direct Install Program Participation Agreement ("Participation Agreement") previously executed by the Parties in connection with the installation of energy efficiency retrofit Measures to be performed by the Participating Contractor (or "Contractor") at the above listed Facility. This Attachment, together with the Participation Agreement shall constitute the full Agreement between the Parties. Terms capitalized herein are defined in the Participation Agreement.

The Participating Customer (or "Customer") agrees to have Contractor perform retrofit work in connection with the Measures listed on page 2 of this form (attached). In consideration of the Contractor's performance of such work, Customer agrees to pay Contractor based on the measure costs listed below under Customer Unit Cost for the number of completed units for each Measure upon receipt of invoice; provided the Contractor may collect a deposit from Customer prior to performing such work, in which case the final invoice shall be net of such deposit. Customer and Contractor understand that conditions discovered during installation may require that some measures identified in the energy assessment cannot be installed, or some areas may require additional measures/quantities to be installed. Should conditions in the field dictate that the Estimated Program Total Cost shown on page 2 increase by more than 10%, Contractor must obtain both Program Administrator and Customer written approval in the form of an amended Scope of Work Attachment before proceeding with such additional work.

By signing below, the Parties agree the above listed Measures shall be installed by the Contractor. The Customer shall pay the Contractor as described herein following Completion and Acceptance of Measures. Customer certifies that he/she has the authority to contract for retrofit work in the Facility in connection with the Measures listed and, if the Customer does not own the Facility, the Owner has granted permission to Customer for performance of such work.

Julie A. Acton 4/24/18
Participating Customer Date

Participating Contractor Date

Savings values are estimates. Actual savings will vary.
Incentives and participation subject to program rules and Participation Agreement.

Page 2

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:

State Regulated 30%

Measure Description / Location	Quantity	Total	Estimated	Estimated
	To Be	Prices	Customer	Incentive
	Installed	Cost	Total Cost	Amount
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Reception	6	\$ 546.54	\$ 163.96	\$ 382.58
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Reception	7	\$ 486.22	\$ 145.87	\$ 340.35
Relamp/Reballast: Plug & Play LED - 3-Lamp - 2-Foot T8 & Add 2' Reflector / Reception	1	\$ 105.02	\$ 31.51	\$ 73.51
Relamp/Reballast: Plug & Play LED - 3-Lamp - 2-Foot T8 & Add 2' Reflector / Back Vestibule	1	\$ 105.02	\$ 31.51	\$ 73.51
Relamp/Reballast: Plug & Play LED - 3-Lamp - 4-Foot T8 (Stand. - 12W) / Conference Room	9	\$ 713.16	\$ 213.95	\$ 499.21
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Office 1	2	\$ 182.18	\$ 54.65	\$ 127.53
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Server	2	\$ 182.18	\$ 54.65	\$ 127.53
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Office 2	2	\$ 182.18	\$ 54.65	\$ 127.53
Relamp/Reballast: Plug & Play LED - 3-Lamp - 4-Foot T8 (Stand. - 12W) / Office 2	2	\$ 158.48	\$ 47.54	\$ 110.94
Relamp: LED - BR30 (6 - 17W): 12 W / Office 2	2	\$ 47.44	\$ 14.23	\$ 33.21
Relamp: LED - A-Lamp (3 - 25W): 10 W / Kitchen	2	\$ 41.20	\$ 12.36	\$ 28.84
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Restroom	1	\$ 69.46	\$ 20.84	\$ 48.62
Relamp: LED - Globe (0.5 - 8W): 5 W / Restroom	3	\$ 63.78	\$ 19.13	\$ 44.65
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Office 3	3	\$ 273.27	\$ 81.98	\$ 191.29
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Office 4	4	\$ 277.84	\$ 83.35	\$ 194.49
Relamp: LED - Globe (0.5 - 8W): 8 W / Restroom	3	\$ 66.33	\$ 19.90	\$ 46.43
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Basement	6	\$ 546.54	\$ 163.96	\$ 382.58
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 28 W / Exterior Door Pack	4	\$ 705.56	\$ 211.67	\$ 493.89
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 60 W / Wall Pack	1	\$ 237.83	\$ 71.35	\$ 166.48
Relamp: LED - A-Lamp (3 - 25W): 10 W / Coach Light	1	\$ 20.60	\$ 6.18	\$ 14.42
Install Controls: Dual Tech Wall Switch Occupancy Sensor / Office 1	1	\$ 100.07	\$ 30.02	\$ 70.05
Air Source Heat Pump: 3-Tons / OFFICE	1	\$ 7,900.00	\$ 2,370.00	\$ 5,530.00
Air Source Heat Pump: 3.5-Tons / OFFICE	1	\$ 8,300.00	\$ 2,490.00	\$ 5,810.00
Low-Flow Aerators (Lavatory) / BATHROOM	3	\$ 37.20	\$ 11.16	\$ 26.04
Low-Flow Aerators (Kitchen) / KITCHEN	1	\$ 12.90	\$ 3.87	\$ 9.03
TOTALS**		\$ 21,361.00	\$ 6,408.30	\$ 14,952.70

**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.

New Jersey Office of Clean Energy Direct Install Program Energy Assessment Tool (V2.2b)



General Project Information

Participating Customer: Salem Co Improvement Authority
Contractor / Project #: FSG 0456
Facility Name: SCIA-Solid Waste Division
Street Address: Mc Killip Rd
City / Zip Code: Mannington 08079
Is this facility publicly owned?: Y
BOE, MUA or other public entity property?: Y

Facility Type: Office - Small
Total Facility Square Footage: 5,000
Avg Weekly Hrs of Operation: 54
of Full-Time Employees: 20
Year Constructed: 1988
Tax Exempt?: Y
Project Permitting Costs:

Electric Utility Information

Electric Provider: Atlantic City Electric
Service Class: Secondary Service
Account #: 55007647781
Billing Period Start Date: 12/15/17
Billing Period End Date: 01/17/18
Billing Period kWh Consumption: 7,719
Billing Period Total Cost: \$931.80
Total Taxes + Fees on Bill:
Electric - Average Cost (\$/kWh): \$0.121

Gas Utility Information

Gas Provider:
Service Class:
Account #:
Billing Period Start Date:
Billing Period End Date:
Billing Period Therm Consumption:
Billing Period Total Cost:
Total Taxes + Fees on Bill:
Gas - Average Cost (\$/Therm): \$0.000

Oil Information

Annual Consumption (Gallons):
Annual Cost:
Annual Taxes + Fees on Bill:
Oil - Average Cost (\$/Gallon): \$0.000

Propane Information

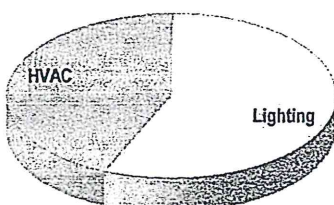
Annual Consumption (Gallons):
Annual Cost:
Annual Taxes + Fees on Bill:
Propane - Average Cost (\$/Gallon): \$0.000

Project Summary

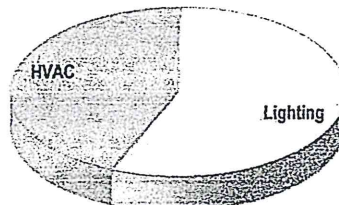
	Annual Energy Savings	Energy Units	Annual Cost Savings	Total Measure Cost	Estimated Incentive Amount	Total Cost to Customer	Simple Payback (Yrs)
Lighting Measures Total:	11,246	kWh	\$1,357.62	\$5,110.90	\$3,577.63	\$1,533.27	1.13
Motors & VFD Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
HVAC Electric Measures Total:	8,637	kWh	\$1,042.65	\$16,250.10	\$11,375.07	\$4,875.03	4.68
Refrigeration Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
ELECTRIC MEASURES:	19,884	kWh	\$2,400.27	\$21,361.00	\$14,952.70	\$6,408.30	2.67
GAS MEASURES:	0	Therms	\$0.00	\$0.00	\$0.00	\$0.00	0.00
OIL MEASURES:	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
TOTAL PROPANE MEASURES:	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
CONVERSION MEASURES (OIL):	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
CONVERSION MEASURES GAS:	0	Therms	\$0.00	\$0.00	\$0.00	\$0.00	0.00
COMBINED PROJECT TOTALS:			\$2,400.27	\$21,361.00	\$14,952.70	\$6,408.30	2.67

PROJECT TRC TEST: 1.19

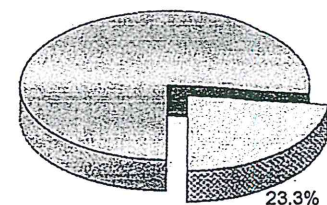
Projected Energy Savings Per Measure Category



Projected Dollar Savings Per Measure Category



Estimated Reduction in Total Energy Consumption





DIRECT INSTALL PROGRAM
PARTICIPATION AGREEMENT
SCOPE OF WORK ATTACHMENT

FS0465

"Parties":

Participating Customer*:	Salem Co Utilities Auth			
Participating Contractor*:	FSG			
Facility Name*:	SCIA-Solid Waste Division (Garage)			
Facility Address:	52 Mckillip Rd	Mannington,	NJ	08079
	Street	City		Zip

*as listed on Application

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Julie A. Clato 4/30/18
Participating Customer Date

Participating Contractor Date

Savings values are estimates. Actual savings will vary.
Incentives and participation subject to program rules and Participation Agreement.

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Scope of Work

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<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>
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Scale House	2	\$ 138.92	\$ 41.68	\$ 97.24
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot T8 (Stand. - 12W) / Scale House	2	\$ 182.18	\$ 54.65	\$ 127.53
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Restroom	1	\$ 69.46	\$ 20.84	\$ 48.62
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 22 W / Wall Pack	6	\$ 1,151.88	\$ 345.56	\$ 806.32
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 60 W / Wall Pack	2	\$ 475.66	\$ 142.70	\$ 332.96
Relamp: LED - A-Lamp (3 - 25W): 10 W / Soffit	2	\$ 41.20	\$ 12.36	\$ 28.84
Fixture Replacement: LED High/Low Bay (90 - 480W): 144 W / Garage	16	\$ 5,785.92	\$ 1,735.78	\$ 4,050.14
Fixture Replacement: Linear Ambient Luminaire - 8' (60 - 100W): 89 W / Work Bench	5	\$ 1,967.05	\$ 590.12	\$ 1,376.94
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Cabinets	1	\$ 69.46	\$ 20.84	\$ 48.62
Relamp: LED - A-Lamp (3 - 25W): 10 W / Restroom	1	\$ 20.60	\$ 6.18	\$ 14.42
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Office	4	\$ 277.84	\$ 83.35	\$ 194.49
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 60 W / Wall Pack	4	\$ 1,037.32	\$ 311.20	\$ 726.12
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 60 W / Flood	6	\$ 1,555.98	\$ 466.79	\$ 1,089.19
Fixture Replacement: LED Pole Mount (70 - 260W): 180 W / Pole	2	\$ 1,220.72	\$ 366.22	\$ 854.50
Relamp: LED - A-Lamp (3 - 25W): 18 W / Shed	8	\$ 263.28	\$ 78.98	\$ 184.30
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Electrical	2	\$ 138.92	\$ 41.68	\$ 97.24
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Water Treatment	2	\$ 138.92	\$ 41.68	\$ 97.24
Relamp: LED - A-Lamp (3 - 25W): 18 W / Convenience	2	\$ 56.52	\$ 16.96	\$ 39.56
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot T8 (Stand. - 12W) / Convenience	2	\$ 138.92	\$ 41.68	\$ 97.24
Fixture Replacement: LED Architectural Flood/Spot (25 - 150W): 50 W / Pole	1	\$ 292.66	\$ 87.80	\$ 204.86
Install Controls: Dual Tech Wall Switch Occupancy Sensor / Restroom	1	\$ 100.07	\$ 30.02	\$ 70.05
Install Controls: Dual Tech Wall Switch Occupancy Sensor / Restroom	1	\$ 100.07	\$ 30.02	\$ 70.05
Low-Flow Aerators (Lavatory) / BATHROOM	1	\$ 12.40	\$ 3.72	\$ 8.68
TOTALS**		\$ 15,235.95	\$ 4,570.78	\$ 10,665.17

**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.

New Jersey Office of Clean Energy Direct Install Program Energy Assessment Tool (V2.2b)



General Project Information

Participating Customer:	Salem Co Utilities Auth	
Contractor / Project #:	FSG	0465
Facility Name:	SCIA Solid Waste Division (Garage)	
Street Address:	52 McKillip Rd	
City / Zip Code:	Mannington	08079
Is this facility publicly owned?:	Y	
BOE, MUA or other public entity property?	Y	

Facility Type:	Other
Total Facility Square Footage:	8,000
Avg Weekly Hrs of Operation:	54
# of Full-Time Employees:	20
Year Constructed:	1988
Tax Exempt?:	Y
Project Permitting Costs:	

Electric Utility Information

Electric Provider:	Atlantic City Electric
Service Class:	General
Account #:	55011970930
Billing Period Start Date:	12/15/17
Billing Period End Date:	01/17/18
Billing Period kWh Consumption:	8,700
Billing Period Total Cost:	\$1,446.83
Total Taxes + Fees on Bill:	
Electric - Average Cost (\$/kWh):	\$0.166

Gas Utility Information

Gas Provider:	
Service Class:	
Account #:	
Billing Period Start Date:	
Billing Period End Date:	
Billing Period Therm Consumption:	
Billing Period Total Cost:	
Total Taxes + Fees on Bill:	
Gas - Average Cost (\$/Therm):	\$0.000

Oil Information

Annual Consumption (Gallons):	
Annual Cost:	
Annual Taxes + Fees on Bill:	
Oil - Average Cost (\$/Gallon):	\$0.000

Propane Information

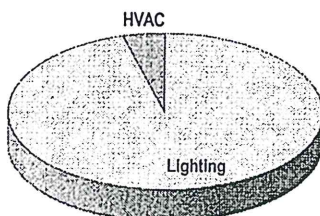
Annual Consumption (Gallons):	3,918
Annual Cost:	\$6,262.46
Annual Taxes + Fees on Bill:	
Propane - Average Cost (\$/Gallon):	\$1.599

Project Summary

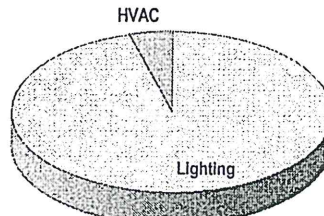
	Annual Energy Savings	Energy Units	Annual Cost Savings	Total Measure Cost	Estimated Incentive Amount	Total Cost to Customer	Simple Payback (Yrs)
Lighting Measures Total:	21,846	kWh	\$3,633.06	\$15,223.55	\$10,656.49	\$4,567.07	1.26
Motors & VFD Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
HVAC Electric Measures Total:	1,002	kWh	\$166.63	\$12.40	\$8.68	\$3.72	0.02
Refrigeration Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
ELECTRIC MEASURES:	22,848	kWh	\$3,799.69	\$15,235.95	\$10,665.17	\$4,570.79	1.20
GAS MEASURES:	0	Therms	\$0.00	\$0.00	\$0.00	\$0.00	0.00
OIL MEASURES:	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
TOTAL PROPANE MEASURES:	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
CONVERSION MEASURES (OIL):	0	Gallons	\$0.00	\$0.00	\$0.00	\$0.00	0.00
CONVERSION MEASURES GAS:	0	Therms	\$0.00	\$0.00	\$0.00	\$0.00	0.00
COMBINED PROJECT TOTALS:			\$3,799.69	\$15,235.95	\$10,665.17	\$4,570.79	1.20

PROJECT TRC TEST: 1.36

Projected Energy Savings Per Measure Category



Projected Dollar Savings Per Measure Category



Estimated Reduction in Total Energy Consumption

