

# New Jersey Office of Clean Energy Direct Install Program Energy Assessment Tool (V2.1)



## General Project Information

Participating Customer:	Elizabeth Public Library	
Contractor / Project #:	Willdan	10281
Facility Name:	Elmora Branch	
Street Address:	740 W. Grand Street	
City / Zip Code:	Elizabeth	07202
Is this facility publicly owned?:	N	
BOE, MUA or other public entity property?:	N	

Facility Type:	Other	
Total Facility Square Footage:	7,500	
Avg Weekly Hrs of Operation:	80	
# of Full-Time Employees:	6	
Year Constructed:	?	
Tax Exempt?:	Y	
Project Permitting Costs:	\$500.00	

## Electric Utility Information

Electric Provider:	PSE&G	
Service Class:	GLP	
Account #:	?	
Billing Period Start Date:	09/06/15	
Billing Period End Date:	10/06/15	
Billing Period kWh Consumption:	7,970	
Billing Period Total Cost:	\$1,408.00	
Total Taxes + Fees on Bill:		
Electric - Average Cost (\$/kWh):	\$0.177	

## Gas Utility Information

Gas Provider:	Elizabethtown Gas	
Service Class:	BGS	
Account #:	?	
Billing Period Start Date:	01/13/16	
Billing Period End Date:	02/11/16	
Billing Period Therm Consumption:	460	
Billing Period Total Cost:	\$345.00	
Total Taxes + Fees on Bill:		
Gas - Average Cost (\$/Therm):	\$0.750	

## Oil Information

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

## Propane Information

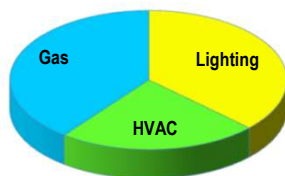
Annual Consumption (Gallons):	
Annual Cost:	
Annual Taxes + Fees on Bill:	
Propane - Average Cost (\$/Gallon):	\$0.000

## Project Summary

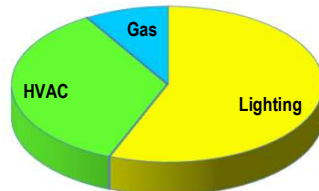
	Annual Energy Savings	Energy Units	Annual Cost Savings	Total Measure Cost	Estimated Incentive Amount	Total Cost to Customer	Simple Payback (Yrs)
Lighting Measures Total:	18,170	kWh	\$3,209.97	\$8,135.75	\$5,695.03	\$2,440.73	0.76
Motors & VFD Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
HVAC Electric Measures Total:	11,413	kWh	\$2,016.19	\$19,446.01	\$13,612.21	\$5,833.80	2.89
Refrigeration Measures Total:	0	kWh	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>ELECTRIC MEASURES:</b>	<b>29,583</b>	<b>kWh</b>	<b>\$5,226.16</b>	<b>\$27,581.76</b>	<b>\$19,307.23</b>	<b>\$8,274.53</b>	<b>1.58</b>
<b>GAS MEASURES:</b>	<b>661</b>	<b>Therms</b>	<b>\$496.05</b>	<b>\$771.30</b>	<b>\$539.91</b>	<b>\$231.39</b>	<b>0.47</b>
<b>OIL MEASURES:</b>	<b>0</b>	<b>Gallons</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.00</b>
<b>TOTAL PROPANE MEASURES:</b>	<b>0</b>	<b>Gallons</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.00</b>
<b>CONVERSION MEASURES (OIL):</b>	<b>0</b>	<b>Gallons</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.00</b>
<b>CONVERSION MEASURES GAS:</b>	<b>0</b>	<b>Therms</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0.00</b>
<b>COMBINED PROJECT TOTALS:</b>			<b>\$5,722.21</b>	<b>\$28,353.06</b>	<b>\$19,847.14</b>	<b>\$8,505.92</b>	<b>1.49</b>

PROJECT TRC TEST: 1.78

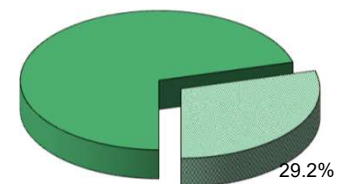
Projected Energy Savings Per Measure Category



Projected Dollar Savings Per Measure Category



Estimated Reduction in Total Energy Consumption





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

WD10281

<b>“Parties”:</b>				
Participating Customer*:	<u>Elizabeth Public Library</u>			
Participating Contractor*:	<u>Willdan</u>			
Facility Name*:	<u>Elmora Branch</u>			
Facility Address:	<u>740 W. Grand Street</u>	<u>Elizabeth,</u>	<u>NJ</u>	<u>07202</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.

Participating Customer	Date	Participating Contractor	Date
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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:

Measure Description / Location	Quantity	Total	Estimated	Estimated
	To Be Installed	Measure Cost	Customer Total Cost	Incentive Amount
Relamp: LED - PAR38 (13 - 23W): 17 W / Ext Front canopy	3	\$ 96.21	\$ 28.86	\$ 67.35
Relamp: LED - PAR38 (13 - 23W): 17 W / Ext Front Flag	1	\$ 32.07	\$ 9.62	\$ 22.45
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 22 W / Entrance Driveway Side Wall	2	\$ 383.96	\$ 115.19	\$ 268.77
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 28 W / Rear Door No Entrance	1	\$ 176.39	\$ 52.92	\$ 123.47
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 38 W / Rear Door No Entrance	1	\$ 228.56	\$ 68.57	\$ 159.99
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 28 W / Handicap entrance	1	\$ 176.39	\$ 52.92	\$ 123.47
Fixture Replacement: LED Outdoor Wall Mount (14 - 60W): 28 W / Exit Side Driveway	1	\$ 176.39	\$ 52.92	\$ 123.47
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Vestibule	1	\$ 95.29	\$ 28.59	\$ 66.70
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Library	32	\$ 3,049.28	\$ 914.78	\$ 2,134.50
Fixture Replacement: LED Exit Sign: 2.3 W / Library	2	\$ 145.80	\$ 43.74	\$ 102.06
Fixture Replacement: LED Exit Sign: 2.3 W / Library	1	\$ 72.90	\$ 21.87	\$ 51.03
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Library Audiobooks	10	\$ 952.90	\$ 285.87	\$ 667.03
Relamp/Reballast: Plug & Play LED - 2-Lamp - U-Bend (U6): 12W / Library Audiobooks	2	\$ 170.36	\$ 51.11	\$ 119.25
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Meeting Room	12	\$ 1,143.48	\$ 343.04	\$ 800.44
Fixture Replacement: LED Exit Sign: 2.3 W / Meeting Room	2	\$ 145.80	\$ 43.74	\$ 102.06
Relamp: LED - A-Lamp (3 - 25W): 12 W / Vestibule to Exit	1	\$ 25.12	\$ 7.54	\$ 17.58
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Break Room	1	\$ 95.29	\$ 28.59	\$ 66.70
Relamp/Reballast: Plug & Play LED - 2-Lamp - 4-Foot (Stand. - 12W) / Electrical Room	1	\$ 71.82	\$ 21.55	\$ 50.27
Relamp/Reballast: Plug & Play LED - 2-Lamp - U-Bend (U6): 12W / Hall by RRs	1	\$ 85.18	\$ 25.55	\$ 59.63
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Womens RR	1	\$ 95.29	\$ 28.59	\$ 66.70
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Mens RR	1	\$ 95.29	\$ 28.59	\$ 66.70
Relamp: LED - A-Lamp (3 - 25W): 12 W / Boiler Room	2	\$ 50.24	\$ 15.07	\$ 35.17
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Librarian Office	2	\$ 190.58	\$ 57.17	\$ 133.41
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Reference Room	2	\$ 190.58	\$ 57.17	\$ 133.41
Relamp/Reballast: Plug & Play LED - 4-Lamp - 4-Foot (Stand. - 12W) / Staff Only	2	\$ 190.58	\$ 57.17	\$ 133.41
Packaged RTU (Gas Heating): 10-Tons / RTU-1	1	\$ 16,805.00	\$ 5,041.50	\$ 11,763.50
Dual Enthalpy Economizers / RTU-1	1	\$ 1,565.00	\$ 469.50	\$ 1,095.50
Electronic Fuel-Use Economizers (for AC) / RTU-1	1	\$ 1,076.01	\$ 322.80	\$ 753.21
Electronic Fuel-Use Economizers (for Forced Air Heat) / RTU-1	1	\$ 510.00	\$ 153.00	\$ 357.00
Programmable Thermostats / Office	1	\$ 236.00	\$ 70.80	\$ 165.20
Low-Flow Aerators (Lavatory) / Men's Restroom	1	\$ 12.40	\$ 3.72	\$ 8.68
Low-Flow Aerators (Kitchen) / Break Room	1	\$ 12.90	\$ 3.87	\$ 9.03
<b>TOTALS**</b>		\$ 28,353.06	\$ 8,505.92	\$ 19,847.14

\*\*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.