

New Jersey's Clean Energy Program

LGEA Exit Meeting for:

Maplewood Township

TRC Energy Services

September 13, 2018

Introductions



Maplewood Township

- Victor DeLuca Mayor
- Sonia Alves-Viveiros Business Administrator
- Jason Sieira Assistant Business Administrator
- Paul Kittner Township Engineer
- Husam Zeidan Assistant Township Engineer
- Annette DePalma Director of Community Development
- Robert McCoy Chairman of Environmental Advisory Committee

NJ Clean Energy Program

- Brian DeLuca, CEM TRC Program Manager
- Moussa Traore TRC Auditor
- Elizabeth Ebinger TRC Account Manager
- Arif Welcher BPU Ombudsman

Agenda



- The audit process overview
- Energy use & existing conditions
- Review of Energy Conservation Measures (ECMs) identified
- Questions or concerns regarding the draft audit report
- Overview of NJCEP equipment incentives
- Next steps for Maplewood Township

LGEA Process



- Application Approval
- Scheduling Call
- Audit
- Benchmarking & Analysis
- Draft Report
- **Exit Meeting Presentation**
- Final Report





Overview of Systems, Baseline & Existing Conditions:

- Building Envelope
- Lighting System
- HVAC and Mechanical Systems

Utility Consumption:

- Electric Consumption and Costs
- Natural Gas Consumption and Costs
- Solar Photovoltaic Generation

Sites Visited/Analyzed

- Town Hall
- Town Hall Rear Buildings (Greenhouses)
- Police & Courthouse
- Public Works Building
- Main Firehouse
- Community Pool
- DeHart Community Center
- Boyden Avenue Firehouse
- 1978 Arts Center
- The Woodland
- Burgdorff Cultural Center
- Memorial Library
- Hilton Library

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NJCleanEnergy.com

Benchmarking



Town Hall

Performa		atement of Energy	
Prim Gros	ary Property Types SS Floor Area (ft²):		
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t Information		-11	
ill (Main Building) sey 07040	574 Valley Street	574 Valley Street 40 Maplewood, NJ 07040 (973) 762-8120 Ext. 200	
1			
ion and Energy Us	se Intensity (EUI)		
atural Gas (kBtu)	1,229,880 (78%)	National Median Comparison National Median Site EUI (kBtuft*) National Median Source EUI (kBtuft*) % Diff from National Median Source EUI Annual Emissions Greenhouse Gas Emissions (Metric Tons COZelvari	126.2 191.8 -43%
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	· A CONTRACTOR OF THE PARTY OF	on is true and correct to the best of my knowled	ne.
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onal	Date.		
	Gros Build For \ Date one is a 1-100 assessment of the formation of the fo	Gross Floor Area (ft ²) Built: 1931 For Year Ending: Decet Date Generated: May 2 one is a 1-100 assessment of a building's energivity. It Information Property Owner Township of Maplew 574 Valley Street Maplewood, NJ 070 (973) 762-8120 1 ion and Energy Use Intensity (EUI) ion and Energy Use Intensity (EUI) ion and Gas (RBu) 1,229,880 (78%) eartic - Gnd (kBu) 358,655 (22%) imp of Verifying Professional(Name) verify that the above informatic	For Year Ending: December 31, 2016 Date Generated: May 27, 2018 ore is a 1-100 assessment of a building's energy efficiency as compared with similar buildings natio brity. It Information Property Owner If (Main Building) Township of Maplewood 574 Valley Street Maplewood, NJ 07040 (973) 762-6120 Maplewood, NJ 07040 (973) 762-6120 Maplewood, NJ 07040 (973) 762-6120 Ext. 200 Township of Maplewood NJ 07040 Maplewood, NJ 070

Maplewood Township	Energy Star Score
Town Hall	89
Town Hall Rear Buildings (Greenhouses)	N/A
Police Court	N/A
Public Works	N/A
Main Firehouse	N/A
Community Pool	N/A
DeHart Community Center	N/A
Boyden Avenue Firehouse	N/A
1978 Arts Center	N/A
The Woodland	N/A
Burgdorff Cultural Center	N/A
Memorial Library	N/A
Hilton Library	N/A

- ENERGY STAR Scores are percentile ranking from 1 to 100. It compares your building's energy performance to similar buildings nationwide.
- A score of N/A indicate that Energy Star does not compare these types of facilities

All Opportunities



Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
Lighting Upgrades	294,244	74.5	0.0	\$48,094.41	\$193,799.78	\$29,610.00	\$164,189.78	3.4	296,301
Install LED Fixtures	66,855	12.0	0.0	\$10,837.18	\$39,145.53	\$8,295.00	\$30,850.53	2.8	67,323
Retrofit Fluorescent Fixtures with LED Lamps and Drivers	2,591	1.2	0.0	\$505.50	\$3,405.00	\$115.00	\$3,290.00	6.5	2,609
Retrofit Fixtures with LED Lamps	223,151	61.2	0.0	\$36,429.91	\$148,130.13	\$21,200.00	\$126,930.13	3.5	224,712
Install LED Exit Signs	1,647	0.1	0.0	\$321.82	\$3,119.12	\$0.00	\$3,119.12	9.7	1,658
Lighting Control Measures	34,948	9.0	0.0	\$5,883.03	\$32,216.00	\$4,840.00	\$27,376.00	4.7	35,192
Install Occupancy Sensor Lighting Controls	26,802	7.4	0.0	\$4,559.76	\$27,216.00	\$3,240.00	\$23,976.00	5.3	26,989
Install High/Low Lighitng Controls	8,146	1.6	0.0	\$1,323.27	\$5,000.00	\$1,600.00	\$3,400.00	2.6	8,203
Motor Upgrades	1,481	0.6	0.0	\$282.73	\$4,672.59	\$0.00	\$4,672.59	16.5	1,492
Premium Efficiency Motors	1,481	0.6	0.0	\$282.73	\$4,672.59	\$0.00	\$4,672.59	16.5	1,492
Variable Frequency Drive (VFD) Measures	3,922	2.2	0.0	\$786.55	\$17,563.72	\$1,360.00	\$16,203.72	20.6	3,949
Install VFDs on Constant Volume (CV) HVAC	3,922	2.2	0.0	\$786.55	\$17,563.72	\$1,360.00	\$16,203.72	20.6	3,949
Electric Unitary HVAC Measures	30,023	26.8	0.0	\$5,458.04	\$226,858.48	\$7,218.00	\$219,640.48	40.2	30,233
Install High Efficiency Electric AC	30,023	26.8	0.0	\$5,458.04	\$226,858.48	\$7,218.00	\$219,640.48	40.2	30,233
Gas Heating (HVAC/Process) Replacement	0	0.0	192.3	\$1,745.78	\$39,314.27	\$3,814.60	\$35,499.67	20.3	22,515
Install High Efficiency Hot Water Boilers	0	0.0	176.5	\$1,599.15	\$35,825.04	\$3,414.60	\$32,410.44	20.3	20,669
Install High Efficiency Furnaces	0	0.0	15.8	\$146.63	\$3,489.23	\$400.00	\$3,089.23	21.1	1,846
Domestic Water Heating Upgrade	42	0.0	5.6	\$60.92	\$107.55	\$0.00	\$107.55	1.8	697
Install Low-Flow Domestic Hot Water Devices	42	0.0	5.6	\$60.92	\$107.55	\$0.00	\$107.55	1.8	697
Plug Load Equipment Control - Vending Machine	7,475	0.0	0.0	\$1,219.85	\$1,610.00	\$0.00	\$1,610.00	1.3	7,527
Vending Machine Control	7,475	0.0	0.0	\$1,219.85	\$1,610.00	\$0.00	\$1,610.00	1.3	7,527
TOTALS	372,136	113.2	197.9	\$63,531.31	\$516,142.39	\$46,842.60	\$469,299.79	7.4	397,907

^{* -} All incentives presented in this table are based on NJ Smart Start Building equipment incentives and assume proposed equipment meets minimum performance criteria for that program.

^{** -} Simple Payback Period is based on net measure costs (i.e. after incentives).





*Opportunities considered cost effective have a payback period less than the expedited life of the measure

Energy Conservation Measure	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
Lighting Upgrades	294,244	74.5	0.0	\$48,094.41	\$193,799.78	\$29,610.00	\$164,189.78	3.4	296,301
ECM 1 Install LED Fixtures	66,855	12.0	0.0	\$10,837.18	\$39,145.53	\$8,295.00	\$30,850.53	2.8	67,323
ECM 2 Retrofit Fluorescent Fixtures with LED Lamps and Drivers	2,591	1.2	0.0	\$505.50	\$3,405.00	\$115.00	\$3,290.00	6.5	2,609
ECM 3 Retrofit Fixtures with LED Lamps	223,151	61.2	0.0	\$36,429.91	\$148,130.13	\$21,200.00	\$126,930.13	3.5	224,712
ECM 4 Install LED Exit Signs	1,647	0.1	0.0	\$321.82	\$3,119.12	\$0.00	\$3,119.12	9.7	1,658
Lighting Control Measures	34,948	9.0	0.0	\$5,883.03	\$32,216.00	\$4,840.00	\$27,376.00	4.7	35,192
ECM 5 Install Occupancy Sensor Lighting Controls	26,802	7.4	0.0	\$4,559.76	\$27,216.00	\$3,240.00	\$23,976.00	5.3	26,989
ECM 6 Install High/Low Lighitng Controls	8,146	1.6	0.0	\$1,323.27	\$5,000.00	\$1,600.00	\$3,400.00	2.6	8,203
Motor Upgrades	693	0.3	0.0	\$142.42	\$1,587.33	\$0.00	\$1,587.33	11.1	698
ECM 7 Premium Efficiency Motors	693	0.3	0.0	\$142.42	\$1,587.33	\$0.00	\$1,587.33	11.1	698
Variable Frequency Drive (VFD) Measures	2,504	1.2	0.0	\$494.59	\$9,022.95	\$720.00	\$8,302.95	16.8	2,522
ECM 8 Install VFDs on Constant Volume (CV) HVAC	2,504	1.2	0.0	\$494.59	\$9,022.95	\$720.00	\$8,302.95	16.8	2,522
Gas Heating (HVAC/Process) Replacement	0	0.0	104.8	\$940.91	\$10,801.54	\$1,000.00	\$9,801.54	10.4	12,275
ECM 9 Install High Efficiency Hot Water Boilers	0	0.0	104.8	\$940.91	\$10,801.54	\$1,000.00	\$9,801.54	10.4	12,275
Domestic Water Heating Upgrade	42	0.0	5.6	\$60.92	\$107.55	\$0.00	\$107.55	1.8	697
ECM 10 Install Low-Flow Domestic Hot Water Devices	42	0.0	5.6	\$60.92	\$107.55	\$0.00	\$107.55	1.8	697
Plug Load Equipment Control - Vending Machine	7,475	0.0	0.0	\$1,219.85	\$1,610.00	\$0.00	\$1,610.00	1.3	7,527
ECM 11 Vending Machine Control	7,475	0.0	0.0	\$1,219.85	\$1,610.00	\$0.00	\$1,610.00	1.3	7,527
TOTALS	339,906	85.0	110.4	\$56,836.13	\$249,145.15	\$36,170.00	\$212,975.15	3.7	355,212

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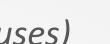
Town Hall



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	ŭ	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
	Lighting Upgrades		26,202	6.8	0.0	\$4,848.05	\$23,292.03	\$2,945.00	\$20,347.03	4.2	26,385
ECM 1	Install LED Fixtures	Yes	12,369	1.9	0.0	\$2,288.62	\$8,345.32	\$1,515.00	\$6,830.32	3.0	12,456
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,069	0.4	0.0	\$197.72	\$1,244.00	\$20.00	\$1,224.00	6.2	1,076
ECM 3	Retrofit Fixtures with LED Lamps	Yes	12,764	4.5	0.0	\$2,361.71	\$13,702.71	\$1,410.00	\$12,292.71	5.2	12,853
	Lighting Control Measures		2,355	0.8	0.0	\$435.67	\$3,844.00	\$390.00	\$3,454.00	7.9	2,371
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	2,061	0.7	0.0	\$381.33	\$3,244.00	\$390.00	\$2,854.00	7.5	2,075
ECM 5	Install High/Low Lighitng Controls	Yes	294	0.1	0.0	\$54.34	\$600.00	\$0.00	\$600.00	11.0	296
	Motor Upgrades		109	0.1	0.0	\$20.23	\$532.17	\$0.00	\$532.17	26.3	110
	Premium Efficiency Motors	No	109	0.1	0.0	\$20.23	\$532.17	\$0.00	\$532.17	26.3	110
	Electric Unitary HVAC Measures		7,026	6.3	0.0	\$1,299.97	\$45,885.71	\$2,875.50	\$43,010.21	33.1	7,075
	Install High Efficiency Electric AC	No	7,026	6.3	0.0	\$1,299.97	\$45,885.71	\$2,875.50	\$43,010.21	33.1	7,075
	Domestic Water Heating Upgrade		0	0.0	0.6	\$5.56	\$35.85	\$0.00	\$35.85	6.5	71
ECM 6	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	0.6	\$5.56	\$35.85	\$0.00	\$35.85	6.5	71
	Plug Load Equipment Control - Vending Machine		1,954	0.0	0.0	\$361.61	\$460.00	\$0.00	\$460.00	1.3	1,968
ECM 7	Vending Machine Control	Yes	1,954	0.0	0.0	\$361.61	\$460.00	\$0.00	\$460.00	1.3	1,968
	TOTALS FOR HIGH PRIORITY MEASURES		30,511	7.6	0.6	\$5,650.88	\$27,631.88	\$3,335.00	\$24,296.88	4.3	30,795
	TOTALS FOR ALL EVALUATED MEASURES		37,646	14.0	0.6	\$6,971.08	\$74,049.75	\$6,210.50	\$67,839.25	9.7	37,981

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Town Hall Rear Buildings (Greenhouses)

	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)		Estim ated Install Cost (\$)	Estim ated Incentive (\$)*	Estim ated Net Cost (\$)		CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		3,022	1.0	0.0	\$485.87	\$3,136.00	\$420.00	\$2,716.00	5.6	3,043
ECM 1	Install LED Fixtures	Yes	1,176	0.3	0.0	\$189.13	\$972.40	\$160.00	\$812.40	4.3	1,184
ECM 2	Retrofit Fixtures with LED Lamps	Yes	1,845	0.7	0.0	\$296.74	\$2,163.60	\$260.00	\$1,903.60	6.4	1,858
	TOTALS FOR HIGH PRIORITY MEASURES		3,022	1.0	0.0	\$485.87	\$3,136.00	\$420.00	\$2,716.00	5.6	3,043
	TOTALS FOR ALL EVALUATED MEASURES		3,022	1.0	0.0	\$485.87	\$3,136.00	\$420.00	\$2,716.00	5.6	3,043

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Police & Courthouse



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
Lighting Upgrades		105,366	24.1	0.0	\$14,385.85	\$61,602.39	\$9,665.00	\$51,937.39	3.6	106,103
ECM 1 Install LED Fixtures	Yes	30,477	5.5	0.0	\$4,161.05	\$10,950.00	\$3,485.00	\$7,465.00	1.8	30,690
ECM 2 Retrofit Fixtures with LED Lamps	Yes	74,889	18.6	0.0	\$10,224.80	\$50,652.39	\$6,180.00	\$44,472.39	4.3	75,413
Lighting Control Measures		7,998	1.8	0.0	\$1,091.92	\$6,580.00	\$620.00	\$5,960.00	5.5	8,053
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	4,475	1.3	0.0	\$611.00	\$4,980.00	\$620.00	\$4,360.00	7.1	4,506
ECM 4 Install High/Low Lighting Controls	Yes	3,522	0.5	0.0	\$480.92	\$1,600.00	\$0.00	\$1,600.00	3.3	3,547
Electric Unitary HVAC Measures		2,430	1.3	0.0	\$331.77	\$20,198.97	\$1,242.00	\$18,956.97	57.1	2,447
Install High Efficiency Electric AC	No	2,430	1.3	0.0	\$331.77	\$20,198.97	\$1,242.00	\$18,956.97	57.1	2,447
TOTALS FOR HIGH PRIORITY MEASURES		113,363	25.9	0.0	\$15,477.77	\$68,182.39	\$10,285.00	\$57,897.39	3.7	114,156
TOTALS FOR ALL EVALUATED MEASURES		115,793	27.2	0.0	\$15,809.55	\$88,381.36	\$11,527.00	\$76,854.36	4.9	116,603

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Public Works Building



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Ü	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		36,575	8.2	0.0	\$5,445.46	\$20,459.21	\$3,315.00	\$17,144.21	3.1	36,831
ECM 1	Install LED Fixtures	Yes	5,063	0.8	0.0	\$753.84	\$2,408.06	\$230.00	\$2,178.06	2.9	5,099
ECM 2	Retrofit Fixtures with LED Lamps	Yes	31,512	7.3	0.0	\$4,691.62	\$18,051.15	\$3,085.00	\$14,966.15	3.2	31,732
	Lighting Control Measures		2,253	0.5	0.0	\$335.43	\$1,392.00	\$120.00	\$1,272.00	3.8	2,269
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	2,253	0.5	0.0	\$335.43	\$1,392.00	\$120.00	\$1,272.00	3.8	2,269
	Plug Load Equipment Control - Vending Machine		1,954	0.0	0.0	\$290.97	\$460.00	\$0.00	\$460.00	1.6	1,968
ECM 4	Vending Machine Control	Yes	1,954	0.0	0.0	\$290.97	\$460.00	\$0.00	\$460.00	1.6	1,968
	TOTALS FOR HIGH PRIORITY MEASURES		40,782	8.7	0.0	\$6,071.86	\$22,311.21	\$3,435.00	\$18,876.21	3.1	41,068
	TOTALS FOR ALL EVALUATED MEASURES		40,782	8.7	0.0	\$6,071.86	\$22,311.21	\$3,435.00	\$18,876.21	3.1	41,068

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Main Firehouse



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	•	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		25,385	2.8	0.0	\$3,989.11	\$7,992.69	\$1,440.00	\$6,552.69	1.6	25,563
ECM 1 Retrofit Fixtures with LED Lamps	Yes	25,123	2.8	0.0	\$3,947.81	\$7,454.92	\$1,440.00	\$6,014.92	1.5	25,298
ECM 2 Install LED Exit Signs	Yes	263	0.0	0.0	\$41.30	\$537.78	\$0.00	\$537.78	13.0	265
Lighting Control Measures		7,090	0.8	0.0	\$1,114.16	\$1,906.00	\$205.00	\$1,701.00	1.5	7,140
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	5,874	0.6	0.0	\$923.07	\$1,506.00	\$205.00	\$1,301.00	1.4	5,915
ECM 4 Install High/Low Lighitng Controls	Yes	1,216	0.2	0.0	\$191.09	\$400.00	\$0.00	\$400.00	2.1	1,225
Motor Upgrades		348	0.1	0.0	\$54.61	\$876.36	\$0.00	\$876.36	16.0	350
Premium Efficiency Motors	No	348	0.1	0.0	\$54.61	\$876.36	\$0.00	\$876.36	16.0	350
Electric Unitary HVAC Measures		2,828	1.7	0.0	\$444.32	\$13,365.79	\$547.50	\$12,818.29	28.8	2,847
Install High Efficiency Electric AC	No	2,828	1.7	0.0	\$444.32	\$13,365.79	\$547.50	\$12,818.29	28.8	2,847
Domestic Water Heating Upgrade		0	0.0	2.6	\$23.31	\$21.51	\$0.00	\$21.51	0.9	300
ECM 5 Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	2.6	\$23.31	\$21.51	\$0.00	\$21.51	0.9	300
Plug Load Equipment Control - Vending Machine		1,612	0.0	0.0	\$253.29	\$230.00	\$0.00	\$230.00	0.9	1,623
ECM 6 Vending Machine Control	Yes	1,612	0.0	0.0	\$253.29	\$230.00	\$0.00	\$230.00	0.9	1,623
TOTALS FOR HIGH PRIORITY MEASURES		34,087	3.6	2.6	\$5,379.86	\$10,150.20	\$1,645.00	\$8,505.20	1.6	34,625
TOTALS FOR ALL EVALUATED MEASURES		37,262	5.4	2.6	\$5,878.80	\$24,392.36	\$2,192.50	\$22,199.86	3.8	37,822

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Community Pool



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		J	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		13,601	4.3	0.0	\$2,788.64	\$11,271.22	\$1,815.00	\$9,456.22	3.4	13,696
ECM 1	Install LED Fix tures	Yes	5,127	1.0	0.0	\$1,051.20	\$4,424.75	\$1,110.00	\$3,314.75	3.2	5,163
ECM 2	Retrofit Fluorescent Fixtures with LED Lamps and Drivers	Yes	1,522	0.8	0.0	\$312.08	\$2,161.00	\$95.00	\$2,066.00	6.6	1,533
ECM 3	Retrofit Fixtures with LED Lamps	Yes	6,637	2.5	0.0	\$1,360.70	\$4,040.14	\$610.00	\$3,430.14	2.5	6,683
ECM 4	Install LED Exit Signs	Yes	315	0.0	0.0	\$64.66	\$645.33	\$0.00	\$645.33	10.0	318
	Lighting Control Measures		709	0.4	0.0	\$145.33	\$1,428.00	\$200.00	\$1,228.00	8.4	714
ECM 5	Install Occupancy Sensor Lighting Controls	Yes	709	0.4	0.0	\$145.33	\$1,428.00	\$200.00	\$1,228.00	8.4	714
	Motor Upgrades		194	0.1	0.0	\$39.79	\$710.97	\$0.00	\$710.97	17.9	195
ECM 6	Premium Efficiency Motors	Yes	194	0.1	0.0	\$39.79	\$710.97	\$0.00	\$710.97	17.9	195
	TOTALS FOR HIGH PRIORITY MEASURES		14,504	4.8	0.0	\$2,973.76	\$13,410.19	\$2,015.00	\$11,395.19	3.8	14,605
	TOTALS FOR ALL EVALUATED MEASURES		14,504	4.8	0.0	\$2,973.76	\$13,410.19	\$2,015.00	\$11,395.19	3.8	14,605

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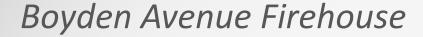




Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	_	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		10,586	2.7	0.0	\$1,743.41	\$7,384.49	\$900.00	\$6,484.49	3.7	10,661
ECM 1 Install LED Fixtures	Yes	4,577	0.8	0.0	\$753.77	\$2,982.29	\$55.00	\$2,927.29	3.9	4,609
ECM 2 Retrofit Fixtures with LED Lamps	Yes	6,009	2.0	0.0	\$989.64	\$4,402.20	\$845.00	\$3,557.20	3.6	6,051
Lighting Control Measures		1,479	0.5	0.0	\$243.58	\$1,320.00	\$130.00	\$1,190.00	4.9	1,489
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	1,361	0.4	0.0	\$224.16	\$1,120.00	\$130.00	\$990.00	4.4	1,371
ECM 4 Install High/Low Lighting Controls	Yes	118	0.0	0.0	\$19.42	\$200.00	\$0.00	\$200.00	10.3	119
Electric Unitary HVAC Measures		1,900	1.3	0.0	\$312.87	\$11,344.80	\$460.00	\$10,884.80	34.8	1,913
Install High Efficiency Electric AC	No	1,900	1.3	0.0	\$312.87	\$11,344.80	\$460.00	\$10,884.80	34.8	1,913
Gas Heating (HVAC/Process) Replacement		0	0.0	104.8	\$940.91	\$10,801.54	\$1,000.00	\$9,801.54	10.4	12,275
ECM 5 Install High Efficiency Hot Water Boilers	Yes	0	0.0	104.8	\$940.91	\$10,801.54	\$1,000.00	\$9,801.54	10.4	12,275
Plug Load Equipment Control - Vending Machine		1,954	0.0	0.0	\$321.85	\$460.00	\$0.00	\$460.00	1.4	1,968
ECM 6 Vending Machine Control	Yes	1,954	0.0	0.0	\$321.85	\$460.00	\$0.00	\$460.00	1.4	1,968
TOTALS FOR HIGH PRIORITY MEASURES		14,020	3.2	104.8	\$3,249.76	\$19,966.03	\$2,030.00	\$17,936.03	5.5	26,392
TOTALS FOR ALL EVALUATED MEASURES		15,920	4.5	104.8	\$3,562.63	\$31,310.83	\$2,490.00	\$28,820.83	8.1	28,306

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	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	· ·	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		11,086	0.9	0.0	\$1,909.89	\$2,594.67	\$370.00	\$2,224.67	1.2	11,164
ECM 1	Retrofit Fixtures with LED Lamps	Yes	10,929	0.9	0.0	\$1,882.72	\$2,272.01	\$370.00	\$1,902.01	1.0	11,005
ECM 2	Install LED Exit Signs	Yes	158	0.0	0.0	\$27.16	\$322.67	\$0.00	\$322.67	11.9	159
	Lighting Control Measures		2,432	0.2	0.0	\$418.99	\$1,134.00	\$455.00	\$679.00	1.6	2,449
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	1,292	0.1	0.0	\$222.59	\$734.00	\$55.00	\$679.00	3.1	1,301
ECM 4	Install High/Low Lighitng Controls	Yes	1,140	0.1	0.0	\$196.40	\$400.00	\$400.00	\$0.00	0.0	1,148
	Electric Unitary HVAC Measures		1,289	0.8	0.0	\$222.10	\$4,488.66	\$276.00	\$4,212.66	19.0	1,298
	Install High Efficiency Electric AC	No	1,289	0.8	0.0	\$222.10	\$4,488.66	\$276.00	\$4,212.66	19.0	1,298
	Gas Heating (HVAC/Process) Replacement		0	0.0	49.4	\$451.18	\$15,434.20	\$1,414.60	\$14,019.60	31.1	5,788
	Install High Efficiency Hot Water Boilers	No	0	0.0	49.4	\$451.18	\$15,434.20	\$1,414.60	\$14,019.60	31.1	5,788
	Domestic Water Heating Upgrade		0	0.0	1.0	\$9.34	\$14.34	\$0.00	\$14.34	1.5	120
ECM 5	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	1.0	\$9.34	\$14.34	\$0.00	\$14.34	1.5	120
	TOTALS FOR HIGH PRIORITY MEASURES		13,519	1.1	1.0	\$2,338.21	\$3,743.01	\$825.00	\$2,918.01	1.2	13,733
	TOTALS FOR ALL EVALUATED MEASURES		14,808	1.9	50.5	\$3,011.50	\$23,665.87	\$2,515.60	\$21,150.27	7.0	20,819

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1978 Arts Center



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)		Ŭ	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)		CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		1,057	0.3	0.0	\$255.41	\$1,118.31	\$70.00	\$1,048.31	4.1	1,065
ECM 1	Retrofit Fixtures with LED Lamps	Yes	1,005	0.3	0.0	\$242.71	\$1,010.76	\$70.00	\$940.76	3.9	1,012
ECM 2	Install LED Exit Signs	Yes	53	0.0	0.0	\$12.70	\$107.56	\$0.00	\$107.56	8.5	53
	Lighting Control Measures		114	0.0	0.0	\$27.54	\$116.00	\$0.00	\$116.00	4.2	115
ECM 3	Install Occupancy Sensor Lighting Controls	Yes	114	0.0	0.0	\$27.54	\$116.00	\$0.00	\$116.00	4.2	115
	Domestic Water Heating Upgrade		42	0.0	0.0	\$10.17	\$7.17	\$0.00	\$7.17	0.7	42
ECM 4	Install Low-Flow Domestic Hot Water Devices	Yes	42	0.0	0.0	\$10.17	\$7.17	\$0.00	\$7.17	0.7	42
	TOTALS FOR HIGH PRIORITY MEASURES		1,213	0.4	0.0	\$293.12	\$1,241.48	\$70.00	\$1,171.48	4.0	1,222
	TOTALS FOR ALL EVALUATED MEASURES		1,213	0.4	0.0	\$293.12	\$1,241.48	\$70.00	\$1,171.48	4.0	1,222

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The Woodland



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	_	Annual Fuel Savings (MMBtu)		Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		11,512	3.7	0.0	\$2,353.18	\$12,335.49	\$1,905.00	\$10,430.49	4.4	11,592
ECM 1 Install LED Fixtures	Yes	5,899	1.2	0.0	\$1,205.74	\$7,500.00	\$1,340.00	\$6,160.00	5.1	5,940
ECM 2 Retrofit Fixtures with LED Lamps	Yes	5,123	2.4	0.0	\$1,047.17	\$4,082.60	\$565.00	\$3,517.60	3.4	5,159
ECM 3 Install LED Exit Signs	Yes	491	0.0	0.0	\$100.28	\$752.89	\$0.00	\$752.89	7.5	494
Lighting Control Measures		625	0.3	0.0	\$127.71	\$2,162.00	\$215.00	\$1,947.00	15.2	629
ECM 4 Install Occupancy Sensor Lighting Controls	Yes	625	0.3	0.0	\$127.71	\$2,162.00	\$215.00	\$1,947.00	15.2	629
Variable Frequency Drive (VFD) Measures		599	0.3	0.0	\$122.34	\$5,264.92	\$240.00	\$5,024.92	41.1	603
Install VFDs on Constant Volume (CV) HVAC	No	599	0.3	0.0	\$122.34	\$5,264.92	\$240.00	\$5,024.92	41.1	603
Electric Unitary HVAC Measures		342	0.6	0.0	\$69.83	\$2,917.88	\$0.00	\$2,917.88	41.8	344
Install High Efficiency Electric AC	No	342	0.6	0.0	\$69.83	\$2,917.88	\$0.00	\$2,917.88	41.8	344
TOTALS FOR HIGH PRIORITY MEASURES		12,137	3.9	0.0	\$2,480.90	\$14,497.49	\$2,120.00	\$12,377.49	5.0	12,222
TOTALS FOR ALL EVALUATED MEASURES		13,077	4.9	0.0	\$2,673.07	\$22,680.28	\$2,360.00	\$20,320.28	7.6	13,168

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	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	(kW)	Savings (MMBtu)	(\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
E014.4	Lighting Upgrades	V	11,825	5.4	0.0	\$2,433.73	\$6,897.80	\$800.00	\$6,097.80	2.5	11,908
ECM 1	Install LED Fixtures	Yes	1,975	0.3	0.0	\$406.54	\$1,172.03	\$300.00	\$872.03	2.1	1,989
ECM 2	Retrofit Fixtures with LED Lamps	Yes	9,482	5.0	0.0	\$1,951.47	\$4,972.88	\$500.00	\$4,472.88	2.3	9,548
ECM 3	Install LED Exit Signs	Yes	368	0.0	0.0	\$75.72	\$752.89	\$0.00	\$752.89	9.9	370
	Lighting Control Measures		364	0.2	0.0	\$74.84	\$1,010.00	\$105.00	\$905.00	12.1	366
ECM 4	Install Occupancy Sensor Lighting Controls	Yes	296	0.1	0.0	\$60.87	\$810.00	\$105.00	\$705.00	11.6	298
ECM 5	Install High/Low Lighitng Controls	Yes	68	0.0	0.0	\$13.97	\$200.00	\$0.00	\$200.00	14.3	68
	Motor Upgrades		499	0.2	0.0	\$102.63	\$876.36	\$0.00	\$876.36	8.5	502
ECM 6	Premium Efficiency Motors	Yes	499	0.2	0.0	\$102.63	\$876.36	\$0.00	\$876.36	8.5	502
	Variable Frequency Drive (VFD) Measures		819	0.4	0.0	\$168.59	\$3,007.65	\$240.00	\$2,767.65	16.4	825
ECM 7	Install VFDs on Constant Volume (CV) HVAC	Yes	819	0.4	0.0	\$168.59	\$3,007.65	\$240.00	\$2,767.65	16.4	825
	Gas Heating (HVAC/Process) Replacement		0	0.0	38.0	\$353.69	\$13,078.53	\$1,400.00	\$11,678.53	33.0	4,452
	Install High Efficiency Hot Water Boilers	No	0	0.0	22.3	\$207.06	\$9,589.30	\$1,000.00	\$8,589.30	41.5	2,606
	Install High Efficiency Furnaces	No	0	0.0	15.8	\$146.63	\$3,489.23	\$400.00	\$3,089.23	21.1	1,846
	TOTALS FOR HIGH PRIORITY MEASURES		13,507	6.2	0.0	\$2,779.79	\$11,791.81	\$1,145.00	\$10,646.81	3.8	13,601
	TOTALS FOR ALL EVALUATED MEASURES		13,507	6.2	38.0	\$3,133.48	\$24,870.34	\$2,545.00	\$22,325.34	7.1	18,054

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Memorial Library



	Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	Annual Energy Cost Savings (\$)	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO₂e Emissions Reduction (lbs)
	Lighting Upgrades		28,246	10.6	0.0	\$5,464.14	\$26,220.42	\$4,340.00	\$21,880.42	4.0	28,443
ECM 1	Retrofit Fix tures with LED Lamps	Yes	28,246	10.6	0.0	\$5,464.14	\$26,220.42	\$4,340.00	\$21,880.42	4.0	28,443
	Lighting Control Measures		7,046	2.6	0.0	\$1,363.09	\$8,764.00	\$1,060.00	\$7,704.00	5.7	7,096
ECM 2	Install Occupancy Sensor Lighting Controls	Yes	6,912	2.6	0.0	\$1,337.05	\$8,564.00	\$1,060.00	\$7,504.00	5.6	6,960
ECM 3	Install High/Low Lighitng Controls	Yes	135	0.1	0.0	\$26.04	\$200.00	\$0.00	\$200.00	7.7	136
	Motor Upgrades		207	0.1	0.0	\$40.02	\$876.36	\$0.00	\$876.36	21.9	208
	Premium Efficiency Motors	No	207	0.1	0.0	\$40.02	\$876.36	\$0.00	\$876.36	21.9	208
	Variable Frequency Drive (VFD) Measures		1,685	0.8	0.0	\$326.00	\$6,015.30	\$480.00	\$5,535.30	17.0	1,697
ECM 4	Install VFDs on Constant Volume (CV) HVAC	Yes	1,685	0.8	0.0	\$326.00	\$6,015.30	\$480.00	\$5,535.30	17.0	1,697
	Electric Unitary HVAC Measures		6,101	6.6	0.0	\$1,180.27	\$60,000.00	\$1,817.00	\$58,183.00	49.3	6,144
	Install High Efficiency Electric AC	No	6,101	6.6	0.0	\$1,180.27	\$60,000.00	\$1,817.00	\$58,183.00	49.3	6,144
	Domestic Water Heating Upgrade		0	0.0	1.4	\$12.57	\$28.68	\$0.00	\$28.68	2.3	164
ECM 5	Install Low-Flow Domestic Hot Water Devices	Yes	0	0.0	1.4	\$12.57	\$28.68	\$0.00	\$28.68	2.3	164
	TOTALS FOR HIGH PRIORITY MEASURES		36,977	14.0	1.4	\$7,165.80	\$41,028.40	\$5,880.00	\$35,148.40	4.9	37,400
	TOTALS FOR ALL EVALUATED MEASURES		43,285	20.6	1.4	\$8,386.09	\$101,904.76	\$7,697.00	\$94,207.76	11.2	43,752

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Hilton Library



Energy Conservation Measure	Recommend?	Annual Electric Savings (kWh)	Peak Demand Savings (kW)	Annual Fuel Savings (MMBtu)	ŭ	Estimated Install Cost (\$)	Estimated Incentive (\$)*	Estimated Net Cost (\$)	Simple Payback Period (yrs)**	CO ₂ e Emissions Reduction (lbs)
Lighting Upgrades		10,209	3.8	0.0	\$2,113.74	\$9,492.58	\$1,625.00	\$7,867.58	3.7	10,280
ECM 1 Install LED Fixtures	Yes	714	0.1	0.0	\$147.83	\$390.68	\$100.00	\$290.68	2.0	719
ECM 2 Retrofit Fixtures with LED Lamps	Yes	9,495	3.7	0.0	\$1,965.92	\$9,101.91	\$1,525.00	\$7,576.91	3.9	9,561
Lighting Control Measures		2,484	1.0	0.0	\$514.26	\$2,560.00	\$1,340.00	\$1,220.00	2.4	2,501
ECM 3 Install Occupancy Sensor Lighting Controls	Yes	831	0.3	0.0	\$171.98	\$1,160.00	\$140.00	\$1,020.00	5.9	836
ECM 4 Install High/Low Lighitng Controls	Yes	1,653	0.6	0.0	\$342.28	\$1,400.00	\$1,200.00	\$200.00	0.6	1,665
Motor Upgrades		125	0.1	0.0	\$25.89	\$800.37	\$0.00	\$800.37	30.9	126
Premium Efficiency Motors	No	125	0.1	0.0	\$25.89	\$800.37	\$0.00	\$800.37	30.9	126
Variable Frequency Drive (VFD) Measures		819	0.7	0.0	\$169.62	\$3,275.85	\$400.00	\$2,875.85	17.0	825
Install VFDs on Constant Volume (CV) HVAC	No	819	0.7	0.0	\$169.62	\$3,275.85	\$400.00	\$2,875.85	17.0	825
Electric Unitary HVAC Measures		6,051	8.3	0.0	\$1,252.82	\$68,656.67	\$0.00	\$68,656.67	54.8	6,093
Install High Efficiency Electric AC	No	6,051	8.3	0.0	\$1,252.82	\$68,656.67	\$0.00	\$68,656.67	54.8	6,093
TOTALS FOR HIGH PRIORITY MEASURES		12,692	4.7	0.0	\$2,628.00	\$12,052.58	\$2,965.00	\$9,087.58	3.5	12,781
TOTALS FOR ALL EVALUATED MEASURES		19,687	13.8	0.0	\$4,076.33	\$84,785.47	\$3,365.00	\$81,420.47	20.0	19,825

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Energy Efficient Best Practices



- Reduce Air Leakage
- Close Doors and Windows
- Develop a Lighting Maintenance Schedule
- Ensure HVAC and Lighting Controls Are Operating Properly
- Use Fans to Reduce Cooling Load
- Use Window Treatments/Coverings
- Clean and/or Replace HVAC filters
- Check and Seal Duct Leakage
- Perform Proper Boiler Maintenance
- Perform Proper Water Heater Maintenance
- Plug Load Controls
- Water Conservation

See individual reports for specific EE practices by building

Clean Energy Program Portfolio



ELIGIBLE SECTORS

Commercial, Industrial, Government, Non-Profit, Institutional and Multifamily

Equipment Rebates:

- SmartStart Retrofit
- SmartStart New Construction
- Direct Install
- Large Energy Users

INCENTIVE PROGRAMS

Whole Buildings:

- Pay for Performance Existing Buildings
- Pay for Performance New Construction

Energy Generation:

Combined Heat and Power (CHP)

OTHER PROGRAMS

Renewable Energy Generation:

SREC Registration Program (SRP)

* eligible programs are highlighted in yellow

SmartStart: Overview



- Two types of incentives for high efficiency equipment installation:
 - Prescriptive
 - Custom
- Project Categories:
 - New Construction
 - Renovation
 - Remodeling
 - Equipment Replacement
- Project pre-approval required for lighting and custom projects
- Incentives up to \$500,000 per electric account & \$500,000 per natural gas account
- Specific incentives and individual applications for Lighting, HVAC,
 VFDs, Refrigeration, Controls and more!

Direct Install: Overview



- Turn-key retrofit program to replace outdated and inefficient equipment, including lighting, HVAC, refrigeration, etc.
- Open to Small to Mid-Sized Commercial and Industrial facilities with an average electric demand ≤ 200 kW
- Provides incentives of up to 70% of the installed cost
- Incentives are paid directly to the contractor
 - Customer only pays remaining 30% of installed cost
 - \$125,000 project/building cap
 - \$250,000 per entity cap (up to \$500,000 if using ESIP)
- Participating contractors provide support and process all paperwork
- Fast turnaround time: Average length of time for job completion (4-6 months)

Direct Install:



Participating Contractor

Willdan Energy Solutions

Robert Vidaurre 908-337-8477

rvidaurre@willdan.com

Recommended NJCEP Incentives per Building



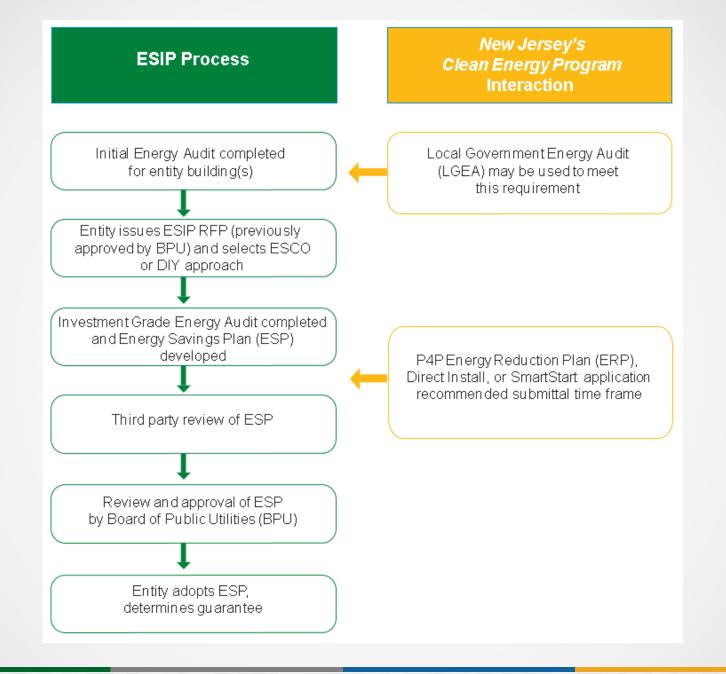
Maplewood Township	SmartStart	Direct Install
Town Hall	Х	Х
Town Hall Rear Buildings (Greenhouses)	Х	X*
Police & Courthouse	Х	X*
Public Works	Х	Х
Main Firehouse	Х	Х
Community Pool	Х	Х
DeHart Community Center	Х	Х
Boyden Avenue Firehouse	Х	Х
1978 Arts Center	Х	X*
The Woodland	Х	Х
Burgdorff Cultural Center	Х	Х
Memorial Library	Х	Х
Hilton Library	Х	X*

^{*} These sites below require a waiver to be in Direct Install because only lighting upgrades have been identified. They are eligible for a full free assessment with the DI Participating Contractor to submit the waiver or to identify other measure/s to enable participation.



Energy Savings Improvement Program (ESIP)

- Provides alternative financing for energy savings projects at public institutions. Value of energy savings leveraged to pay for cost of EE projects over a 15 year contract. Does not count as debt/require voter approval.
- Requires an audit as 1st step (LGEA satisfies requirement)
- ESIP participation question on LGEA application
- Program administered directly by BPU





FOR MORE INFORMATION

ESIP

Mike Thulen

ESIP Coordinator

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Questions







FOR MORE INFORMATION

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