







ENERGY SAVINGS IMPROVEMENT PROGRAM (ESIP) OVERVIEW

RIHRHSD IGA REVIEW & ESIP PRIORITIES

PROJECT SCHEDULE



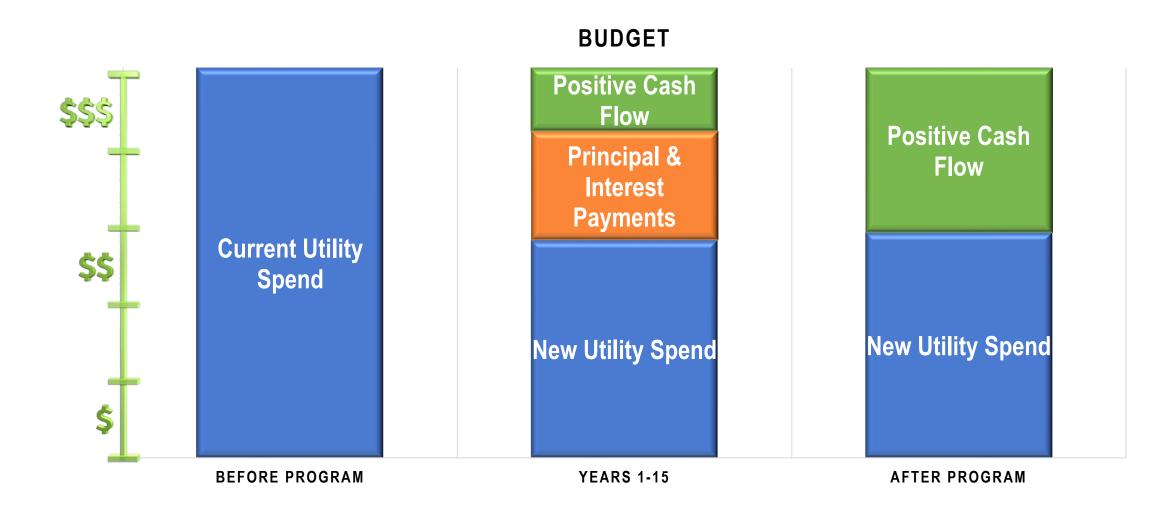
What is the Energy Savings Improvement Program (ESIP)?

ESIP is a **financing mechanism** that allows school districts to make capital improvements to their facilities in a budget neutral method.











FORM II

ESCO'S PRELIMINARY ENERGY SAVINGS PLAN (ESP): ENERGY CONSERVATION MEASURES (ECMs) SUMMARY FORM RAMAPO INDIAN HILLS RHSD ENERGY SAVINGS IMPROVEMENT PROGRAM

ESCO Name: DCO Energy

Prop	osed Preliminary Energy Savings Plan	Estimated Installed Hard Costs ⁽¹⁾ \$	Estimated Annual Savings \$	Est. Simple Payback (Years)	
ECM Num be	Energy Conservation Measure	~	▼.	▼	
1	LED Lighting Retrofit	\$1,246,175	\$124,374	10.0	
2	Lighting Controls	\$121,448	\$9,483	12.8	
3	Energy Management System Integration	\$391,748	\$34,994	11.2	
4	Boiler Replacement	\$0	\$5,959	0.0	
5	Premium Efficiency Pump Motors and VFDs	\$0	\$3,148	0.0	
8	Building Envelope Weatherization	\$138,273	\$11,068	12.5	
10	Freezer Thermostat Control	\$19,154	\$3,099	6.2	
11	Water Conservation	\$31,234	\$3,007	10.4	
12	Plug Load Controls	\$30,940	\$2,174	14.2	
13	Retro-Commissioning	\$218,000	\$18,371	11.9	
14	Solar PPA	\$0	\$147,498	0.0	
16	Roofing Upgrades	\$2,245,000	\$1,216	1846.3	
-	Construction Contingency	\$206,599	-	-	
Add additional lines as needed*	Project Summary:	\$4,648,571	\$364,392	12.8	





FORM VI ESCO's ENERGY SAVINGS PLAN (ESP): **ESCO's ANNUAL CASH FLOW ANALYSIS FORM** RAMAPO INDIAN HILLS RHSD - ENERGY SAVING IMPROVEMENT PROGRAM

ESCO Name: DCO Energy

Note: Respondents must use the following assumptions in all financial calculations:

\$5,319,216

(a) The cost of all types of energy should be assumed to inflate at 2.4% gas, 2.2% electric per year and Years

1. Term of Agreement: 15

2. Construction Period (2) (months): 12 Months

Financed Amount:

3. Cash Flow Analysis Format:

\$5,754,474 Project Cost(1): -\$878,665 Rebates Applied(3): Capital Contribution: Miscellaneous Costs Financed: \$443,406

Interest Rate: Effective Rate:

3.50% 3.03% Miscellaneous Costs Financed:

\$403,406

\$40,000

\$443,406

LAN Associates

Cost of Issuance

Total

Year	Annual Energy Savings	Solar Savings	Annual Operational Savings	Total Annual Savings	Annual Project Costs	Net Cash-Flow to Client	Cumulative Cash Flow
Installation	\$ 125,866		\$ -	\$ 125,866	\$ -	\$ 125,866	\$ 125,866
Year 1	\$ 231,704	\$ 165,862	\$ 33,208	\$ 430,774	\$ (428,375)	\$ 2,400	\$ 128,266
Year 2	\$ 236,864	\$ 168,989	\$ 33,208	\$ 439,061	\$ (436,662)	\$ 2,400	\$ 130,666
Year 3	\$ 242,140	\$ 172,156	\$ 18,285	\$ 432,581	\$ (430,181)	\$ 2,400	\$ 133,065
Year 4	\$ 247,535	\$ 175,362	\$ 18,285	\$ 441,182	\$ (438,783)	\$ 2,400	\$ 135,465
Year 5	\$ 253,051	\$ 178,609	\$ 18,285	\$ 449,946	\$ (447,546)	\$ 2,400	\$ 137,865
Year 6	\$ 258,691	\$ 181,898		\$ 440,589	\$ (438,189)	\$ 2,400	\$ 140,265
Year 7	\$ 264,458	\$ 185,227		\$ 449,686	\$ (447,286)	\$ 2,400	\$ 142,664
Year 8	\$ 270,355	\$ 188,599		\$ 458,954	\$ (456,554)	\$ 2,400	\$ 145,064
Year 9	\$ 276,384	\$ 192,014		\$ 468,398	\$ (465,998)	\$ 2,400	\$ 147,464
Year 10	\$ 282,549	\$ 195,471		\$ 478,020	\$ (475,620)	\$ 2,400	\$ 149,863
Year 11	\$ 288,853	\$ 198,972		\$ 487,824	\$ (485,425)	\$ 2,400	\$ 152,263
Year 12	\$ 295,298	\$ 202,517		\$ 497,815	\$ (495,415)	\$ 2,400	\$ 154,663
Year 13	\$ 301,888	\$ 206,107		\$ 507,995	\$ (505,595)	\$ 2,400	\$ 157,062
Year 14	\$ 308,627	\$ 209,741		\$ 518,368	\$ (515,968)	\$ 2,400	\$ 159,462
Year 15	\$ 315,517	\$ 213,422		\$ 528,939	\$ (526,539)	\$ 2,400	\$ 161,862
Totals	\$ 4,199,780	\$ 2,834,946	\$ 121,272	\$ 7,155,998	\$ (6,994,136)	\$ 161,862	

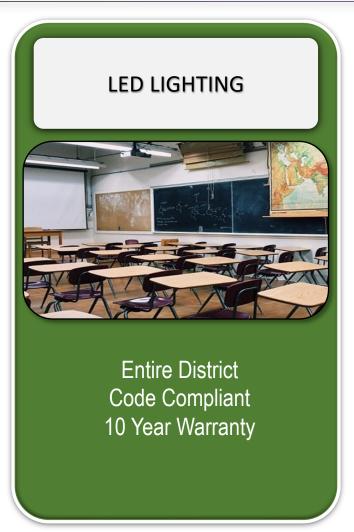
- (1) Includes: Hard costs and project service fees defined in ESCO's PROPOSED "FORMV"
- (2) No payments are made by RIHRHSD during the construction period.
- (3) As of July 1, 2021, all of former NJ Clean Energy Program incentive programs transitioned over to the investor-owned gas and electric utility companies. Subsequently, the BPU is requiring that all ESIP projects consult with the DCA and follow all DCA guidance regarding the procurement of all subcontractors.

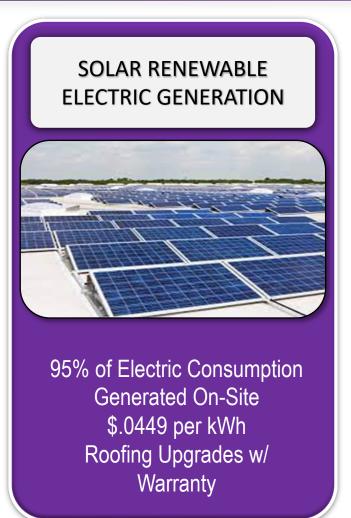


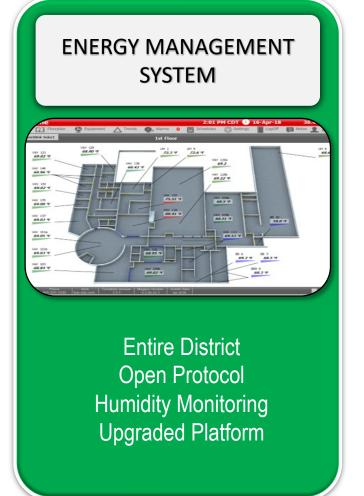
ESIP Project Summary				
Total Project Value	\$5,754,474			
Amount Financed	\$5,319,216			
Energy Savings	\$7,155,998			
Total Rebates for RIHRHSD	\$878,665			
Total Solar PPA Savings	\$2,834,946			
Total Positive Cash	\$161,862			







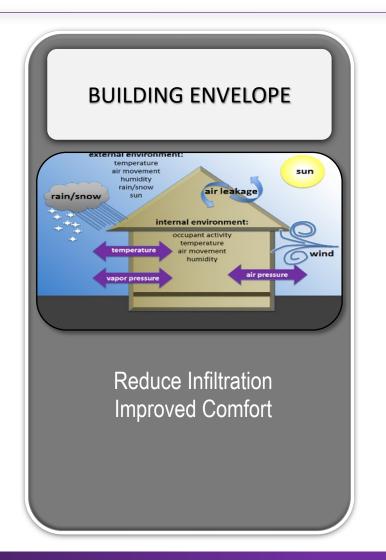
















•	Approve Resolution to bid Solar PPA (Board Meeting)	5/9/2022
•	Client Kick-Off Meeting	-5/12/2022
•	Field Audits	5/12/22 - 7/25/2022
•	Advertise Solar PPA Bid	6/9/2022
•	Solicit for 3rd Party Engineering Firm	6/13 - 6/23/2022
•	Utility Baseline & ECM Verification Workshop	6/17/2022
•	3rd Party Engineering Approval (Board Meeting)	6/27/2022
•	Solar PPA Bid Due	7/12/2022
•	Award Solar PPA (Board Meeting)	7/25/2022
•	Solar PPA Contract Review	8/1 - 11/15/2022
•	M&V Workshop and Scope Review	8/24/2022
•	Engineered Solutions Peer Review	9/30 - 10/7/2022
•	Client Charrette	10/14/2022
•	Board of Education Presentation	10/17/2022
•	Authorize Financing (Board Meeting)	10/17/2022
•	3rd Party Engineering Review of ESP (Whitman Engineering)	10/19 - 10/31/2022
•	Solicit Financing Rates for Lease Purchase	10/25 - 11/22/2022
•	Submit ESP to BPU for Review	11/2 - 11/23/2022
•	BOE Presentation	11/14/2022
•	Award Financing (Board Meeting)	11/28/2022
•	Approve Implementation Contract (Board Meeting)	11/28/2022
•	Acceptance of ESP – Pending BPU Approval, if necessary (Board Meeting)	11/28/2022
•	Close on Financing	12/15/2022
•	Design ECMs/Implementation	January 2023
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Award Lease Purchase Financing – **November 28**th



Approve Implementation Contract with DCO Energy – November 28th

Acceptance of Final ESP – **November 28**th

Approve Energy Savings Guarantee – **November 28**th



