



Colts Neck Township Board of Education

Energy Savings Improvement Program

January 25th, 2023





**ENERGY SAVINGS
IMPROVEMENT PROGRAM (ESIP)
OVERVIEW**

CNTS - ECMs BEING EVALUATED

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.





Options for Funding Capital Improvements

**BOND
REFERRENDUM**

TAXPAYER IMPACT



**LEASE
PURCHASE**

TAXPAYER IMPACT



ESIP

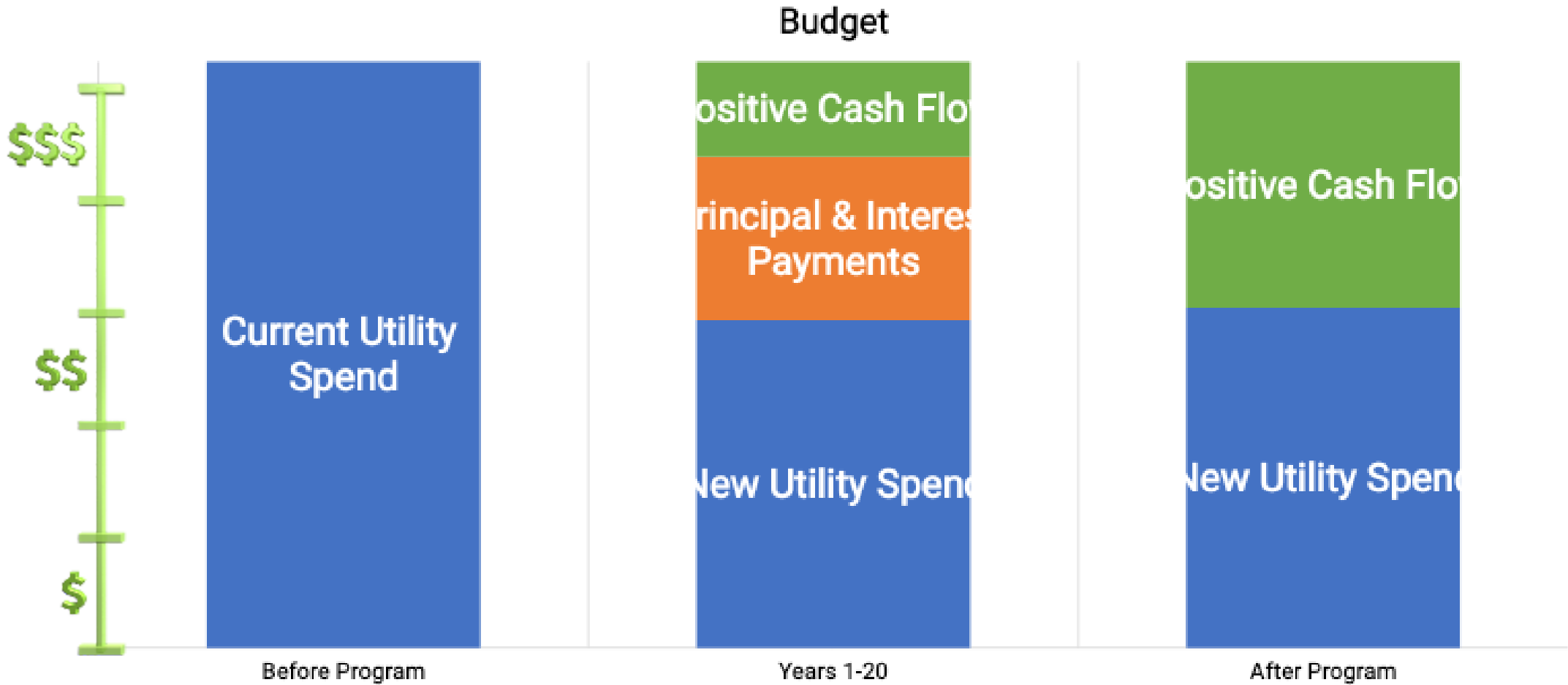
NO TAXPAYER IMPACT



****ESIP is funded through Energy Savings****



Colts Neck Township Schools ESIP Budget





CNTS Energy Conservations Measures (ECMs) – Being Evaluated

LED LIGHTING



Entire District
Code Compliant
10 Year Warranty

SOLAR RENEWABLE ELECTRIC GENERATION



Electric Consumption
Generated On-Site
Reduce costs per kWh

ENERGY MANAGEMENT SYSTEM



Entire District
Open Protocol
Humidity Monitoring
Upgraded Platform



Additional ECMs being Evaluated

HVAC Improvements

Why Temperature Control is Important



Improve Indoor Air Quality

- Lighting Controls
- Roof Refurbishment
- Rooftop Unit (RTU) Replacement
- Plug Load Controls
- Pipe and Valve Insulation
- Building Envelope Improvements
- Needlepoint Bi-Polar Ionization
- Retro-Commissioning
- Combined Heat and Power (CHP)



General ESIP Process

Local Government Energy Audit (LGEA)

- Submit LGEA Application to LGEA@NJCleanEnergy.com
- Provide Building & Utility Data
- 6-8 Months for TRC to complete LGEA

Request for Proposal (RFP)

- Obtain BOE Approval to solicit for ESIP RFP
- Submit RFP to BPU for approval before releasing RFP
- Select Energy Services Company (ESCO)
- 6-8 Weeks

Investment Grade Audit (IGA)

- 3-6 Month in-depth analysis of facilities
- Evaluate/Bid a Solar Power Purchase Agreement (PPA)
- Utility Analysis, Facility Audit, Manufacturer Selection

Energy Savings Plan (ESP)

- Selected Scope of Work from IGA to be implemented and Self-Fund
- Work with FA/BC to bid to finance Scope of Work
- ESP must be approved by independent 3rd Party Engineer and NJ BPU

Financing and Design

- After all approvals, financing is closed, and BOE provides approval – Design and Implementation begins
- 2 Months to 6 Months



Investment Grade Audit (IGA) Schedule

• BOE Approval to Award DCO	12/21/2022
• Client Kick-Off Meeting	1/19/2023
• Field Audits	1/19 – 3/24/2023
• Approve Resolution to bid Solar PPA (Board Meeting)	1/25/2022
• Advertise Solar PPA Bid	2/8/2023
• <i>Utility Baseline & ECM Verification Workshop</i>	<i>2/22/2023</i>
• Solicit for 3rd Party Engineering Firm	2/27 – 3/15/2023
• Solar PPA Bid Due	3/15/2023
• Award Solar PPA (Board Meeting)	4/5/2023
• 3rd Party Engineering Approval (Board Meeting)	4/5/2023
• Solar PPA Contract Review	4/6 – 5/26/2023
• <i>M&V Workshop and Client Charrette</i>	<i>5/3/2023</i>
• 3rd Party Engineering Review	5/8 – 5/26/2023
• Submit ESP to BPU for Review	5/29 – 6/16/2022
• Authorize Financing (Board Meeting)	6/28/2023
• Acceptance of Final and BPU Approved ESP (Board Meeting)	6/28/2023
• Approve Implementation Contract, If necessary (Board Meeting)	6/28/2023
• Close Financing	July 2023
• Design/Implementation	July 2023



Upcoming Board Involvement

Authorize Use of Competitive Contracting for Solar PPA – **January 25th**



Award Solar Power Purchase Agreement (PPA) – **April 5th**



Award 3rd Party Engineering Approval – **April 5th**



