

The background features a photograph of Washington Township High School at night. The school's name is visible on the facade, and a circular logo with 'W_T' is above the entrance. A vibrant green glowing line, consisting of a dashed arc on the left and a solid loop on the right, curves across the upper portion of the image. The overall background is a dark blue grid.

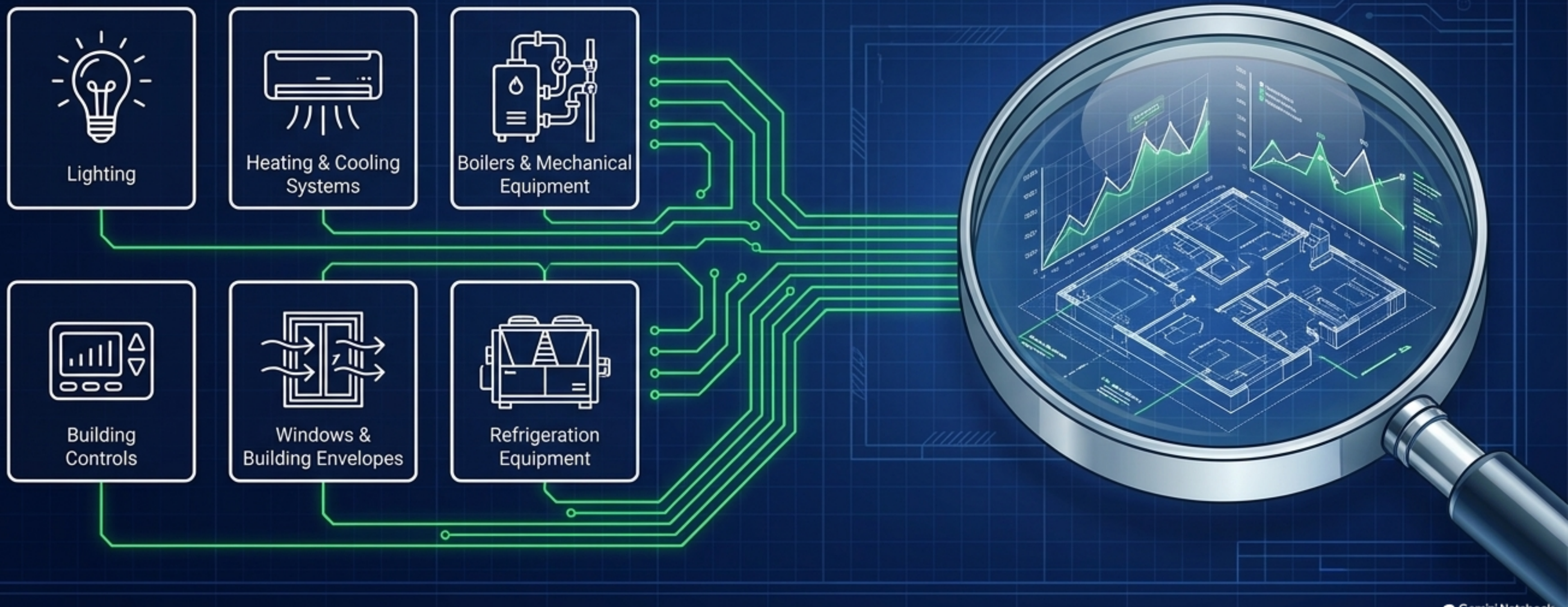
Building for the Future

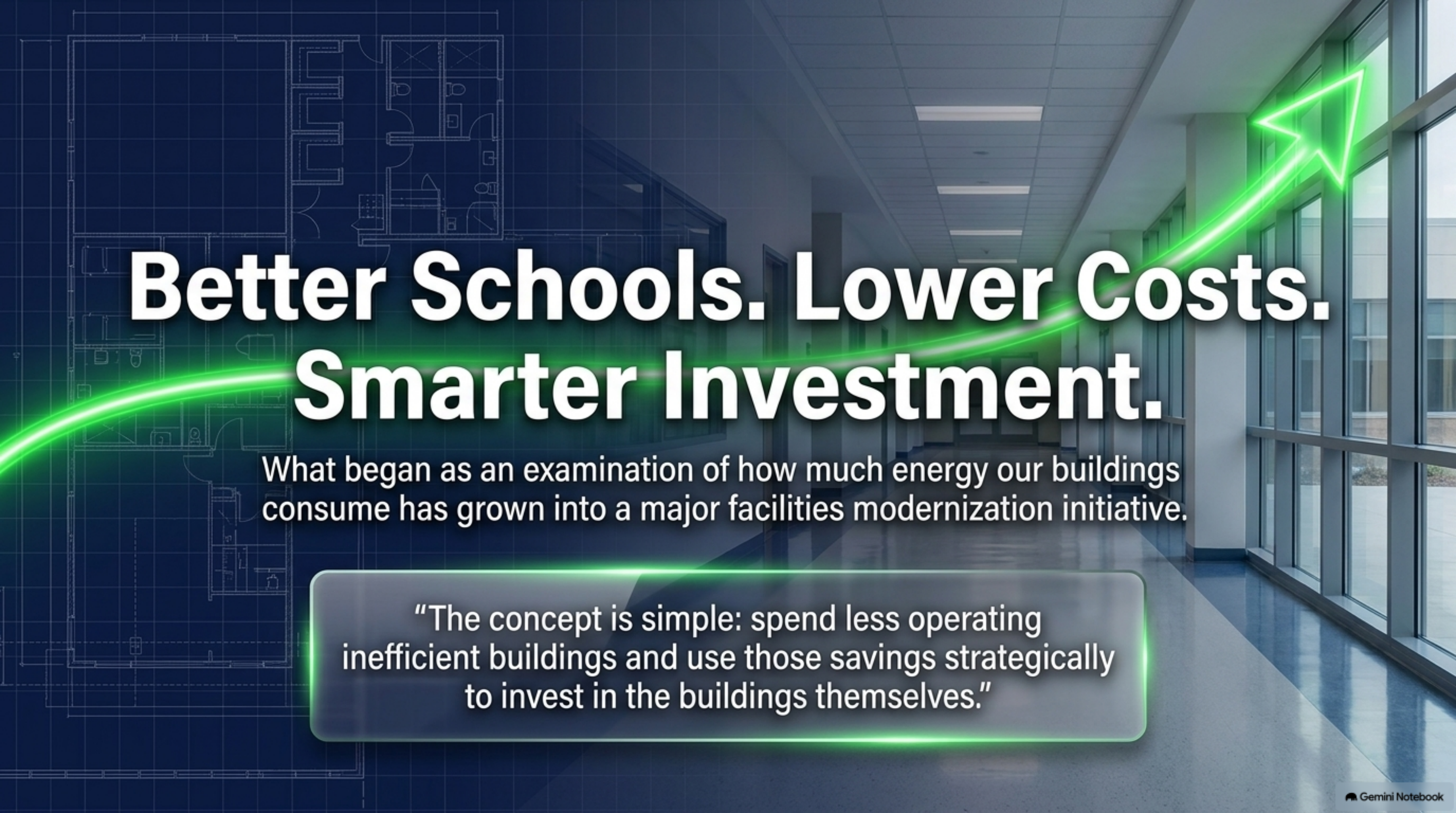
Washington Township Public Schools
Energy & Facilities Improvement Program

Lower Costs • Better Facilities • Cleaner Energy • Long-Term Savings

Conducting an Energy and Efficiency Checkup

An energy audit is a comprehensive examination of how our buildings use energy, where energy is being wasted, and where improvements could save money.





Better Schools. Lower Costs. Smarter Investment.

What began as an examination of how much energy our buildings consume has grown into a major facilities modernization initiative.

"The concept is simple: spend less operating inefficient buildings and use those savings strategically to invest in the buildings themselves."

Redirecting Energy Waste to Create Facility Worth

The Old Reality

Old & Inefficient Equipment



Higher Energy Costs

Normally, infrastructure projects must compete for limited capital dollars.

The New Engine

Make Energy Improvements

Use Less Energy

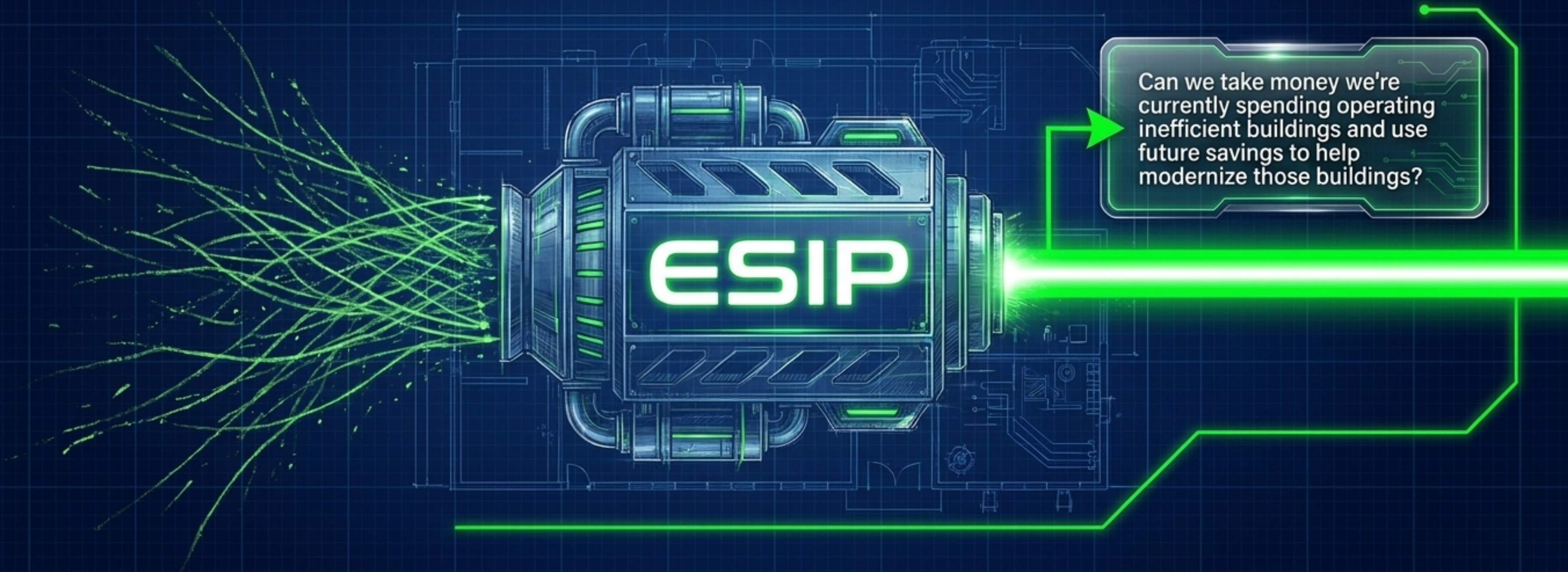
Savings Pay for Improvements

Lower Operating Costs

Instead of continuing to spend tax dollars on unnecessary energy consumption, we are redirecting projected savings toward improving our schools.

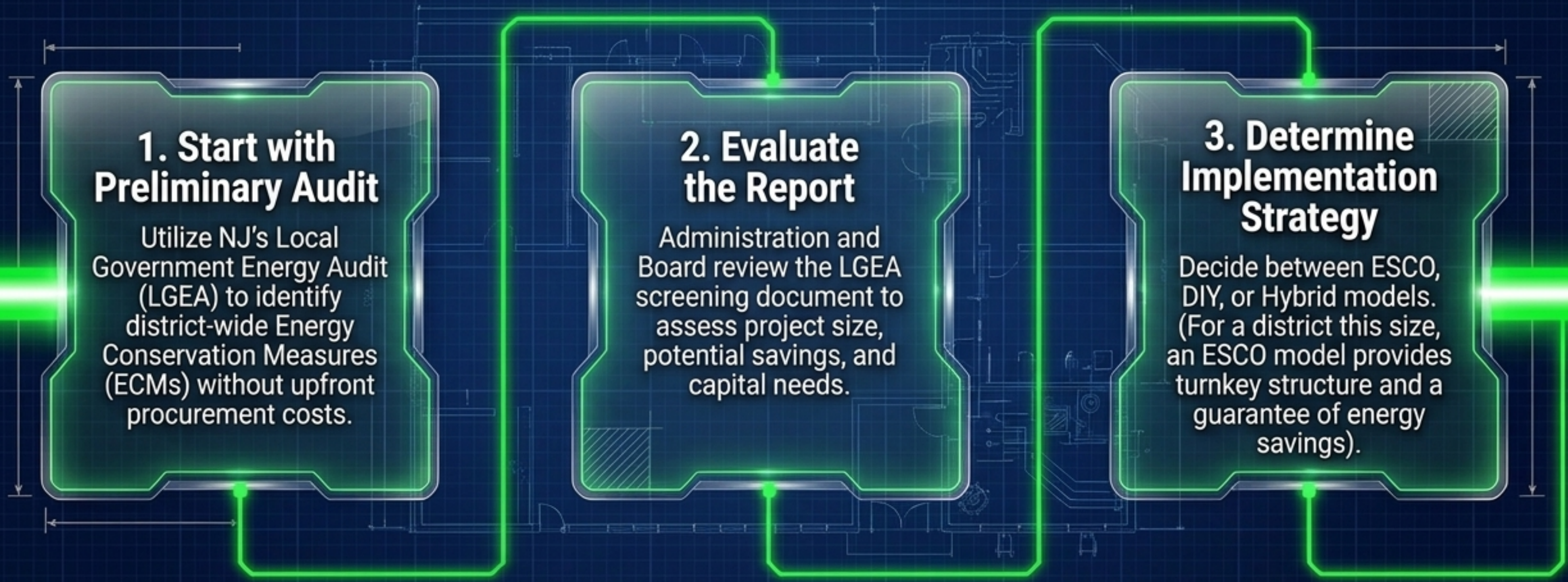
The Energy Savings Improvement Program

ESIP provides a formalized way for New Jersey school districts to make qualifying facility improvements and use the newly generated savings to help fund the exact same project.



The ESIP Framework: Phase I (Preliminary Diagnostics)

A highly regulated, 15-step pathway ensures transparency, expert oversight, and verified results.



The ESIP Framework: Phase II (Procurement & Engineering)

4. RFP Development & State Approval

Board authorizes moving forward. Crucially, the standardized ESCO RFP must be reviewed and approved by the NJBPU ESIP Coordinator before advertisement.

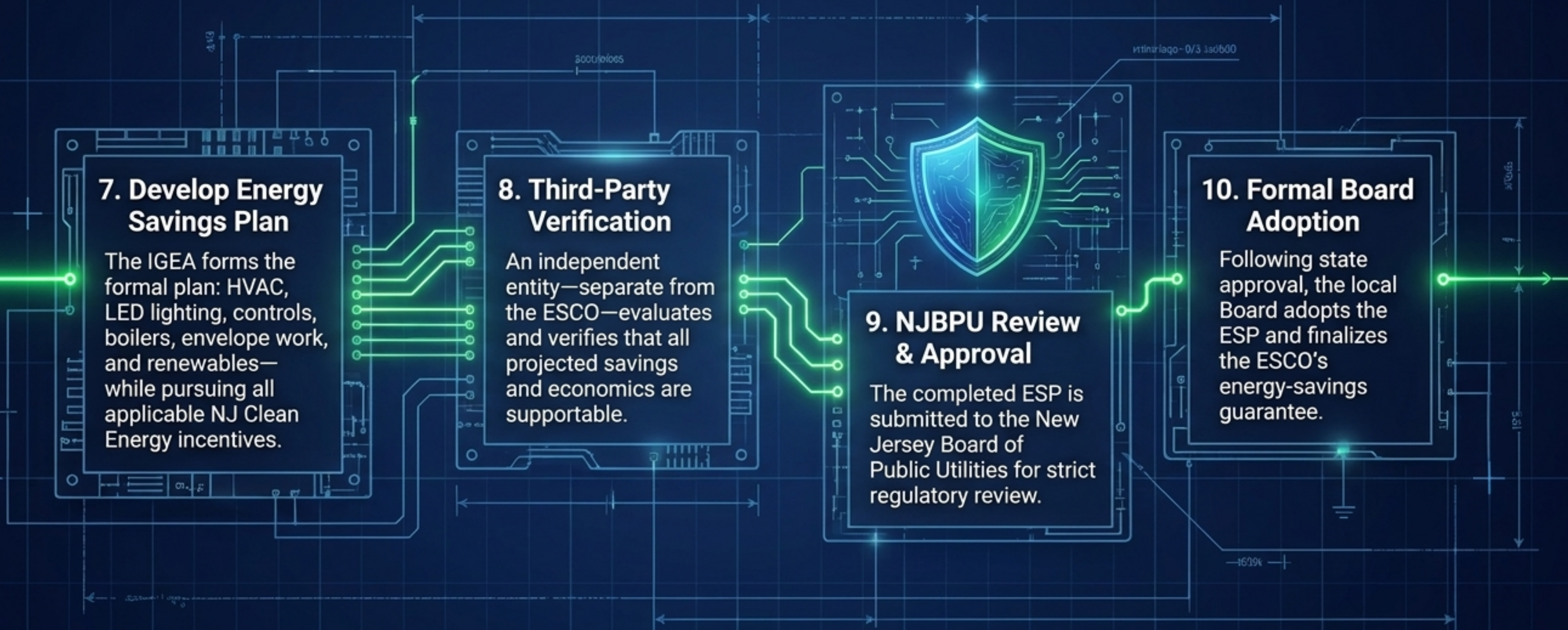
5. Competitive Selection

Mandatory walkthroughs and proposal evaluations. The district selects the partner providing the best overall proposal based on engineering capability, track record, and guaranteed savings.

6. Investment Grade Energy Audit (IGEA)

The project moves from preliminary concepts to serious engineering. The ESCO determines precise equipment lists, true expected costs, and strict utility economics.

The ESIP Framework: Phase III (Planning & Regulatory Review)



The ESIP Framework: Phase IV (Implementation & Closed-Loop Verification)

11. Arrange Authorized Financing

Financed without a voter referendum; structured entirely around the savings generated by the project itself.

12. Final Design & Public Bidding

Final specifications are drawn, and construction subcontractors are procured pursuant to public bidding laws.

13. Installation & Management

Physical upgrades are installed, meticulously phased around school operations and calendars to minimize disruption.

14. System Commissioning

Independent verification ensures new systems are installed correctly and operating exactly as designed.

15. Measurement & Verification (M&V)

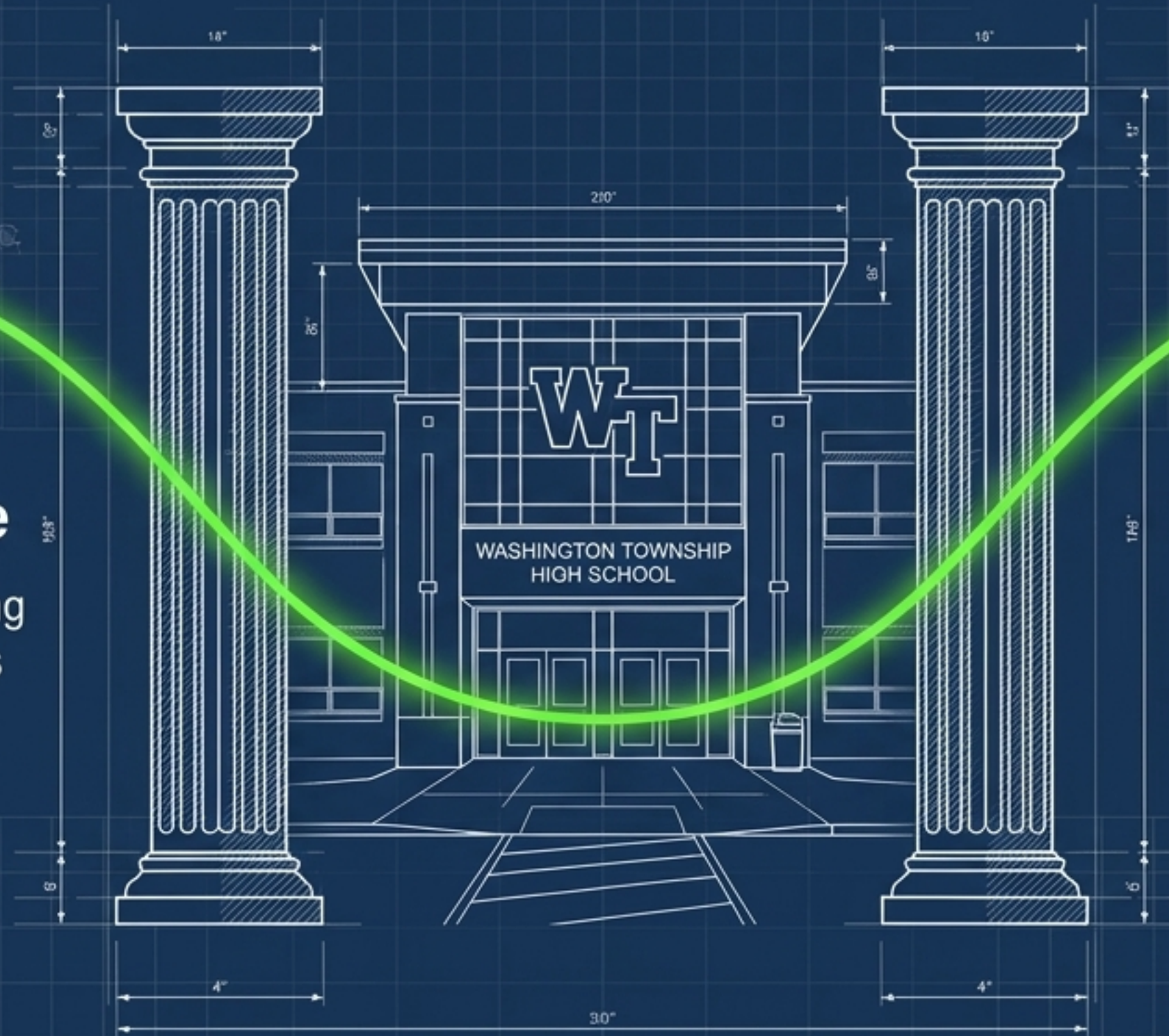
One year post-operation, actual performance is measured against the established baseline to mathematically prove the savings guarantee.

A Two-Pillar Modernization Strategy



Phase 1: Reduce & Optimize

Focuses heavily on upgrading equipment so our buildings require drastically less energy to operate.



Phase 2: Generate & Preserve

Focuses on producing a portion of the energy our buildings use while preserving critical structural assets.

Phase 1 Represents Major Physical Investments



\$4.95
MILLION

LED Lighting

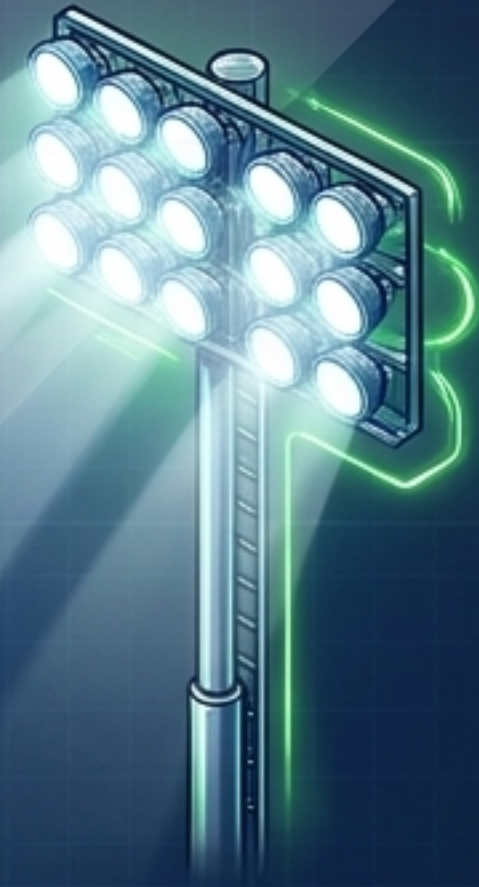
Modern, energy-efficient LED lighting installed throughout district facilities, paired with smart lighting controls.



\$5.02
MILLION

Boiler Improvements

Complete replacement and modernization of aging, major heating infrastructure in district schools.



WTHS Stadium Lighting

Installation of modern, highly energy-efficient stadium lighting specifically included as a Phase 1 Energy Conservation Measure.

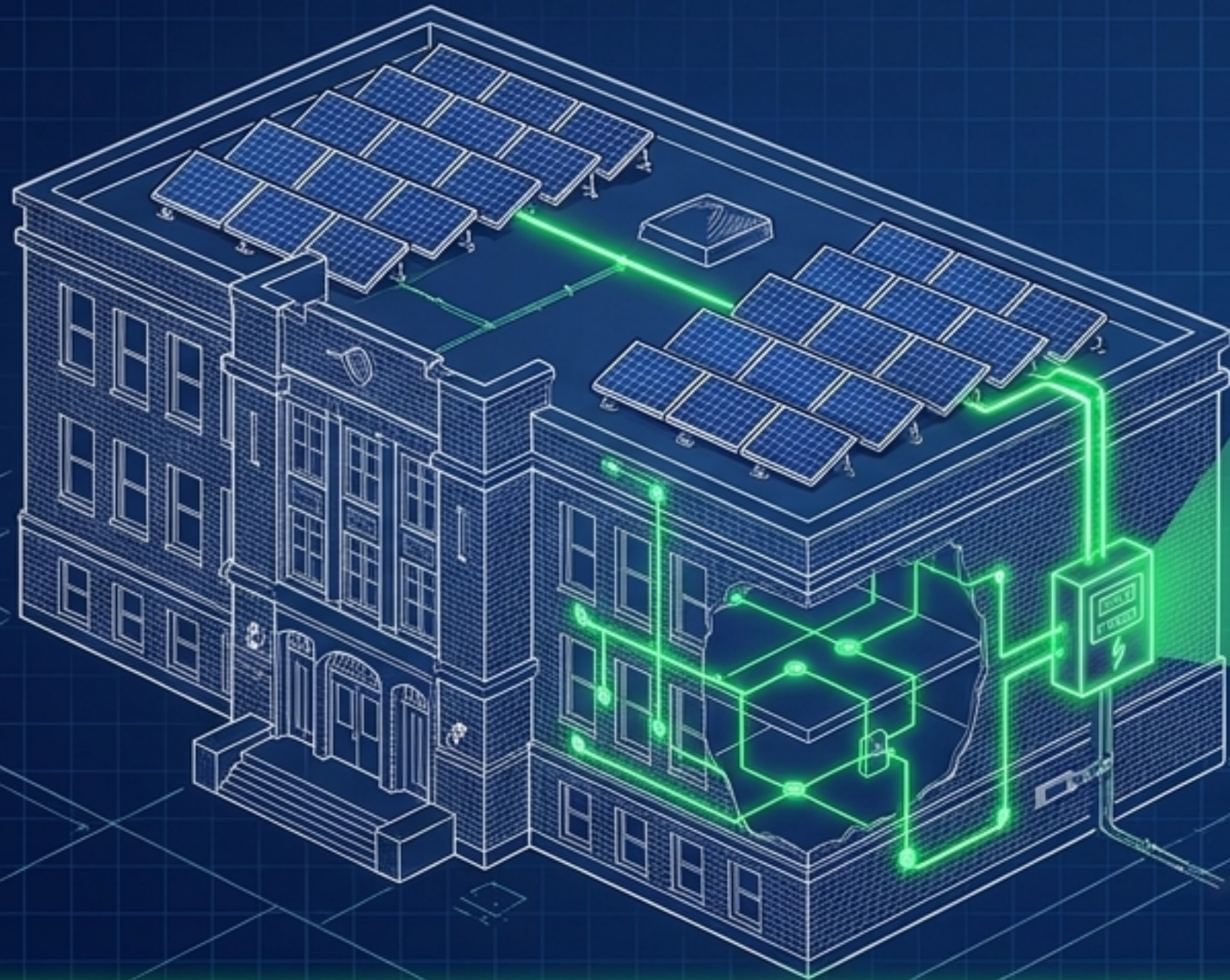
Improving Building Systems Across the Entire District

Technology	Benefit
 Lighting Controls	Automatically reduces unnecessary energy use
 Pipe & Valve Insulation	Keeps heat where it belongs
 Building Weatherization	Reduces drafts and air leakage
 Plug Load Controls	Cuts electricity wasted by idle equipment
 Refrigeration Controls	Optimizes walk-in refrigeration efficiency
 Retro-Commissioning	Tunes existing systems for peak performance
 Destratification Fans	Circulates warm air effectively in large spaces
 Window Film	Reduces unwanted heat gain and loss
 HVAC Armor	Protects equipment for longer-term performance



Phase 2: Generating Our Own Clean Energy

Phase 1 reduces the energy our buildings need. Phase 2 introduces a new capacity: producing a portion of the energy our buildings use to create additional long-term savings.

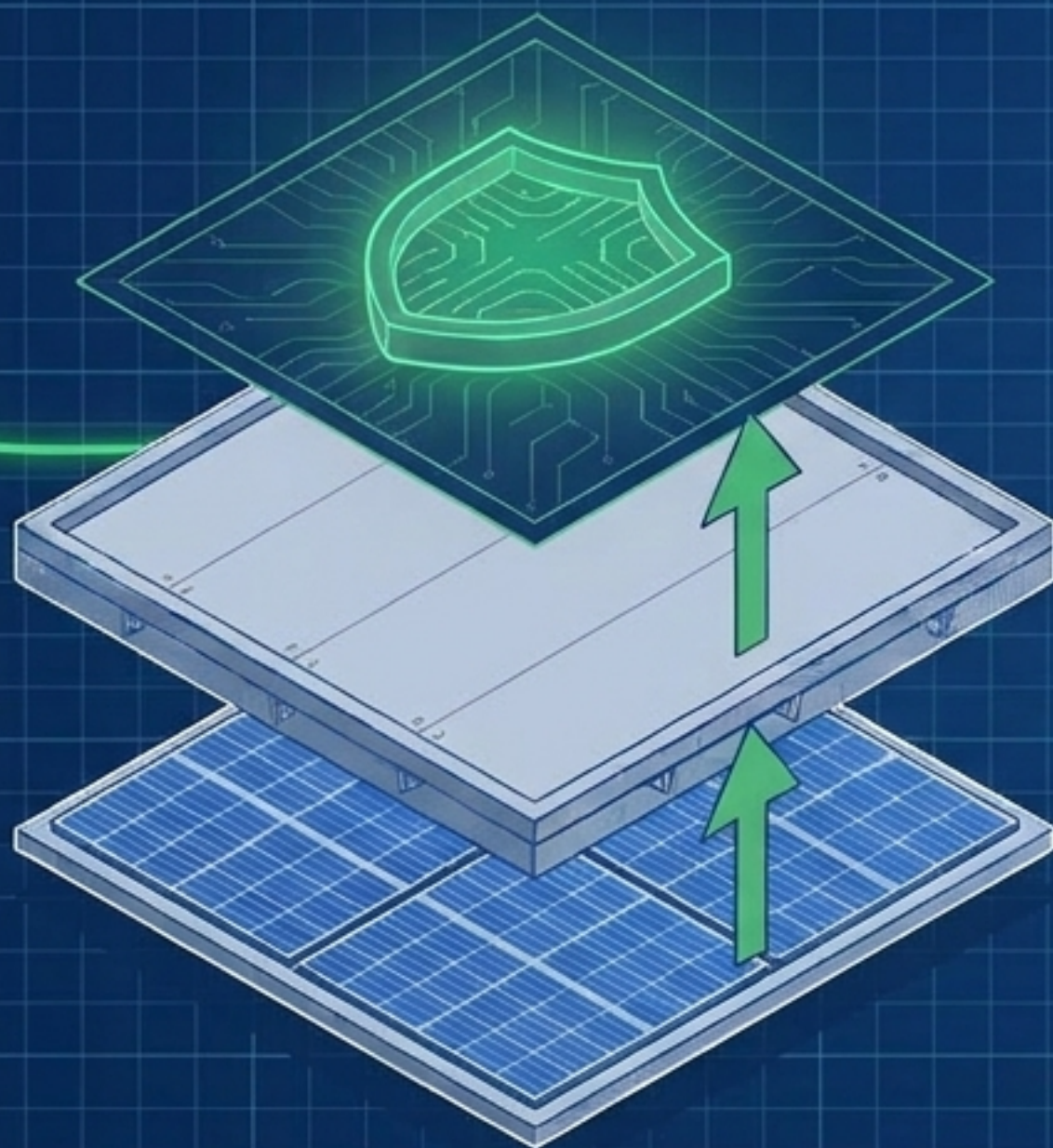


**Phase 2 plan includes
solar installations at
9 District Schools.**

Solar Installations Drive Structural Preservation

The Phase 2 investment is not simply about installing solar panels. It provides a strategic opportunity to make significant investments in preserving and extending the useful life of our existing infrastructure.

Diagnostic
Cross-Section



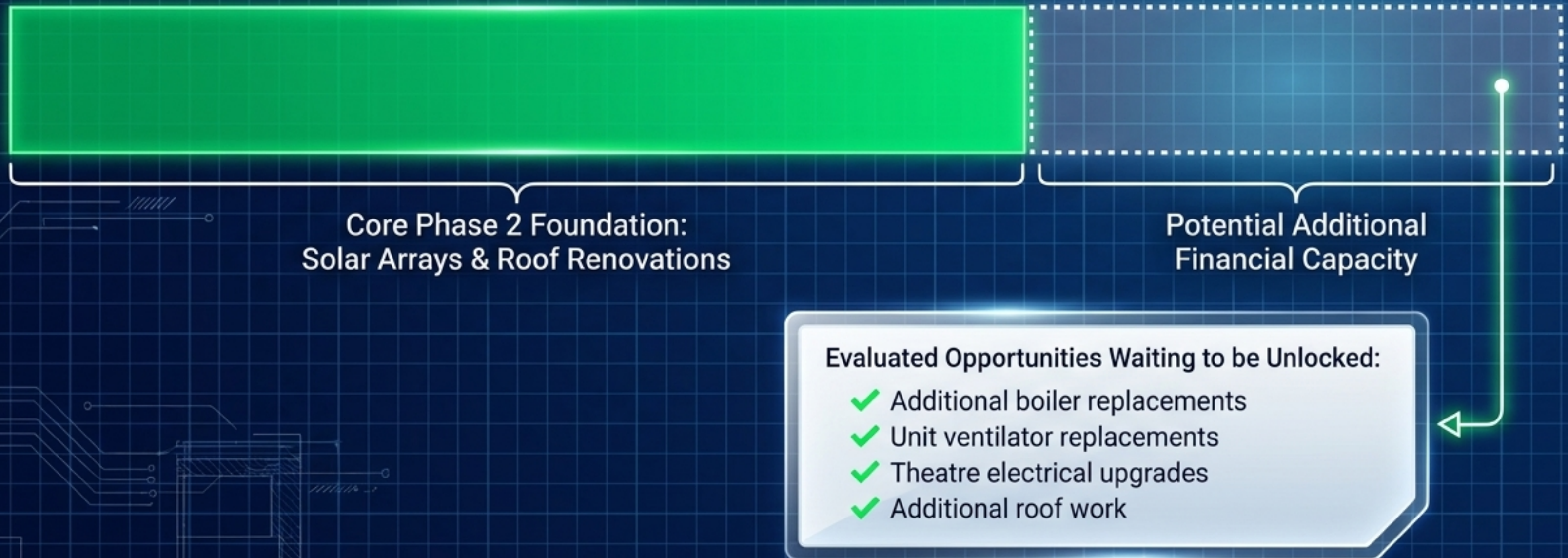
≈15 YEARS
OF ADDITIONAL ROOF LIFE
generated for those six locations.

6 ROOF RENOVATIONS
triggered by the solar work.

9 SOLAR PROJECTS
planned across the district.

Expanding the Scope Through Financial Capacity

Solar and the associated roof work provide the foundation of Phase 2, but the final list is not yet complete. As final solar production, project costs, incentives, and savings are determined, additional financial capacity may become available to address more needs.



Washington Township Public Schools Energy Conservation Budget Allocation

\$16,172,443 (Tranche 1)

+ \$7,133,506 (Tranche 2)

\$23,305,949 (Combined Total)

Financial Schematic: Complete Ledger for Tranche 1 Phase

Item Name	Dollar Amount
ECM 2: LED Lighting Volumetric Kit Retrofit	\$4,951,229
ECM 3: Lighting Controls	\$427,100
ECM 5: Pipe and Valve Insulation	\$137,772
ECM 6: Building Envelope Weatherization	\$1,210,138
ECM 7: Plug Load Controls	\$355,968
ECM 8: Etemp	\$113,760
ECM 9: Walk-In Refrigeration Controls	\$147,656
ECM 10: Retro-Commissioning	\$495,217
ECM 11: Combined Heating & Power	\$281,328
ECM 12: Hot Water Boiler Plant Replacement	\$4,160,005
ECM 13: Steam Boiler Replacements	\$863,265
ECM 17: Stadium Lighting	\$474,593
ECM 19: Destratification Fans	\$290,860
ECM 20: Window Film	\$1,086,358
ECM 21: HVAC Armor	\$1,177,190

TOTALS

\$16,172,443

Financial Schematic: Complete Ledger for Tranche 2 Phase

Item Name	Dollar Amount
ECM 4: Roof Renovations	\$4,474,437
ECM 12: TBD - Under Construction	\$2,659,069
TOTALS	\$7,133,506

Dramatically Reducing Our Environmental Footprint

Strategy: Consume Less Energy + Generate Clean Energy



7,170

Metric Tons of CO₂
eliminated annually.



61%
Reduction

in utility-related annual
carbon emissions.

The Big Picture: A Unified Return on Investment

Financial Worth



\$23.3M
Financed
Improvements



\$33.6M
Total Savings
(20-Year)



\$1.36M
Annual Energy
& Solar Savings



\$708,892
Rebates &
Incentives

Physical Worth



\$4.95M
LED Upgrades



\$5.02M
Boiler
Modernizations



6 Major Roof
Renovations
(+15 Years Life)

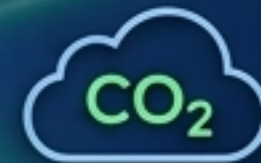


Districtwide
HVAC & Control
Overhauls

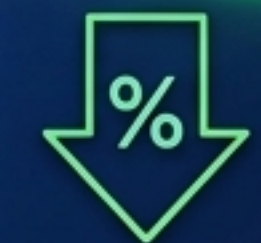
Environmental Worth



9 Schools
Generating
Solar Power



7,170
Metric Tons
CO2 Eliminated



61%
Carbon
Reduction