

Using Energy to Turn Liabilities into Assets

August 30, 2021



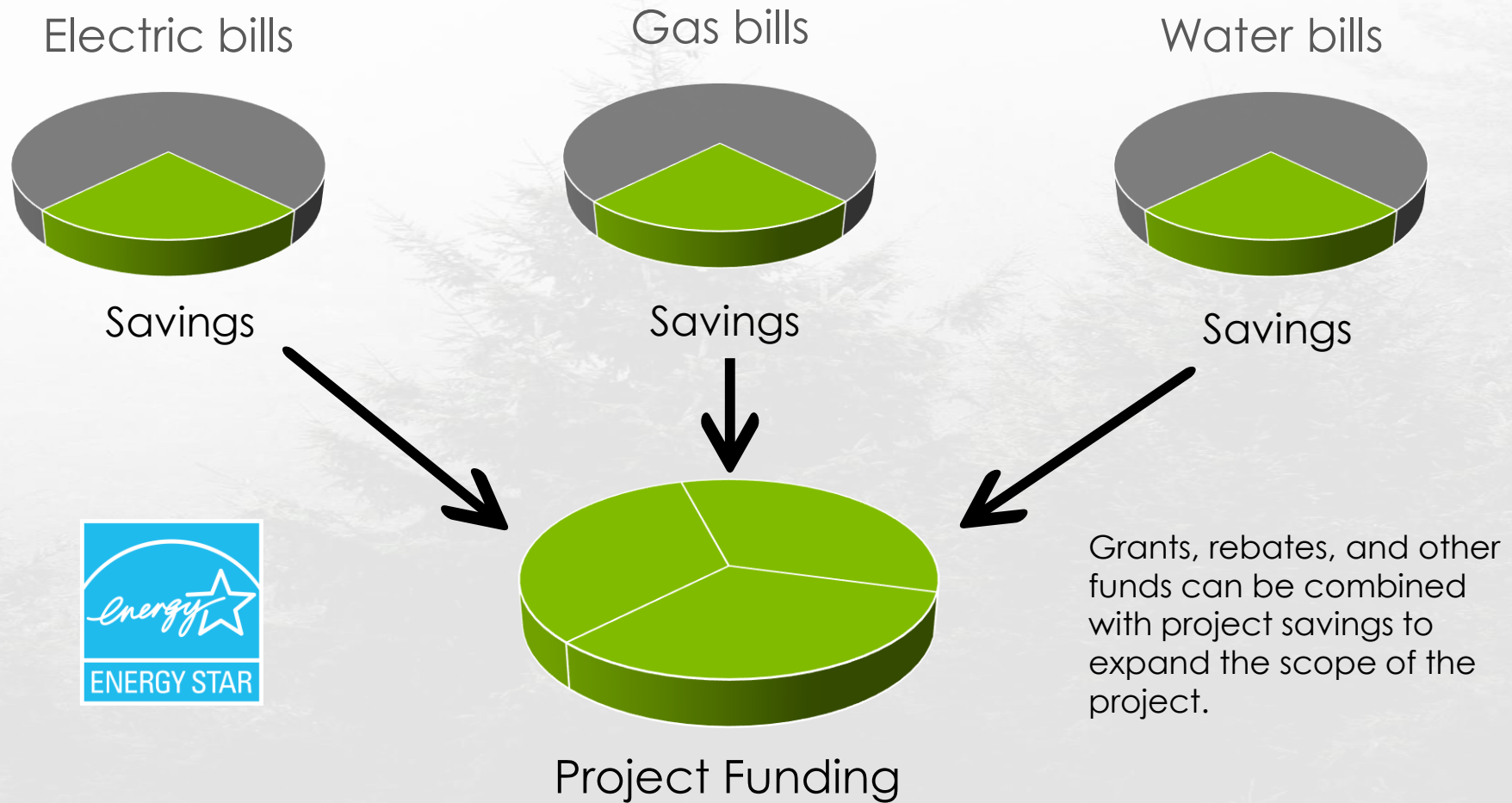


High utility bills

Outdated equipment

Deferred maintenance

Procurement



Guaranteed savings from energy conservation measures fund equipment upgrades and deferred maintenance projects



LED Lighting



HVAC Controls



HVAC Retro-Commissioning



Water Management Measures



Energy savings are **fully guaranteed** by PATH

Annual Measurement & Verification of all energy project components is included in project cost

**2019 Tennessee Code
Title 12 - Public Property, Printing and Contracts
Chapter 4 - Public Contracts
Part 1 - General Provisions
§ 12-4-110. Energy-related services.**

Universal Citation: [TN Code § 12-4-110 \(2019\)](#)

Contracts by counties, cities, metropolitan governments, towns, utility districts and other municipal and public corporations of this state for energy-related services that include both engineering services and equipment, and have as their purpose the reduction of energy costs in public facilities, shall be awarded on the same basis as contracts for professional services.

HVAC upgrades

Roofing

Building envelope

Comfort issues/Air quality

Ball field lighting

Solar

Review of the Current State of Weakley County Facilities

Path Company conducted a Preliminary Audit of the following facilities:

- Courthouse
- Election Commission
- Ag Department
- Detention Center
- Health Department
- Ned McWherter Library

While many of the buildings remain in satisfactory condition, the Preliminary Audit showed the following MAJOR issues exist in the Courthouse:

- Rusting HVAC pipes
- Humidity control issues
- Excess moisture
- Broken boiler (no heat)
- Inability for local workforce to maintain current equipment





IGA Results



Courthouse HVAC Project

- Designed and priced out 4 separate options to address the issues that currently exist
 - Option 1 – Repair Chilled Water System
 - Option 2 – Replace with Water Source Heat Pump System
 - Option 3 – Replace with Split Systems
 - Option 4 – Replace with Variable Refrigerant Flow (VRF) System

Energy Project

- Developed the following energy conservation measures to implement across county buildings
 - LED Lighting
 - HVAC Controls
 - HVAC Retro-Commissioning
 - Water Conservation



Overview of Energy Project



LED Lighting in all 6 buildings



HVAC Controls in 5 buildings



HVAC Retro-Commissioning in 5 buildings



Water Management measures in all 6 buildings



Results in total energy and operational savings of \$63,000/year



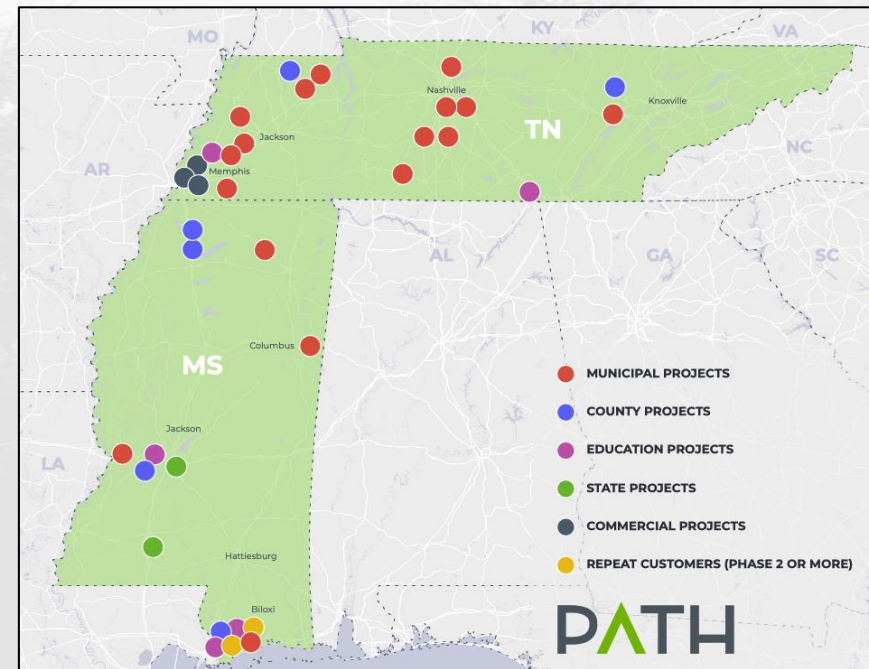
Savings are **fully guaranteed** by Path Company

Annual Measurement & Verification of all energy project components is included in project cost

Weakley County Facilities Overall Project Scope

	LED Lighting	HVAC Controls	HVAC Retro-Commissioning	Water Conservation	HVAC Equipment Overhaul
Courthouse	X	X	X	X	X
Detention Center	X			X	
Election Commission	X	X	X	X	
Ag Department	X	X	X	X	
Library	X	X	X	X	
Health Department	X	X	X	X	
	TOTAL ENERGY PROJECT SAVINGS = \$63,000 PER YEAR				

- Single point of responsibility
- Trusted partner
- Savings dollars go further due to a different overhead structure which allows us to maximize savings
- Product/Brand agnostic
- Performance guarantee





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