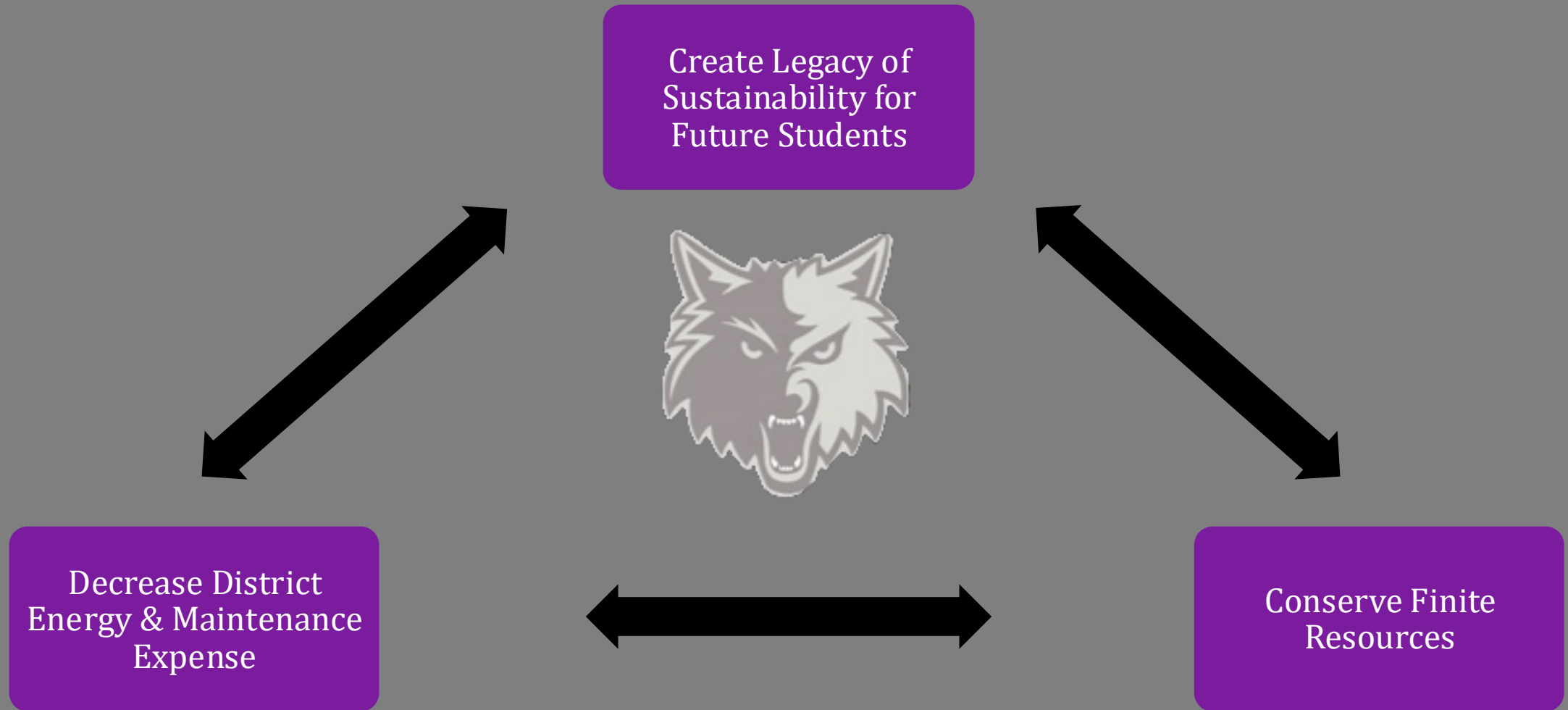




El Camino Real Charter Academy

Comprehensive Energy Project
June 2026

Project Objectives



El Camino Real Current Energy Profile:

- Annual Usage (est kWh): 339,106
- Annual Electrical Expense (est): \$58,595
- Annual Gas Expense (est): \$20-30k
- Annual HVAC Maintenance Expense: \$60,000



Aging HVAC Infrastructure



No Central Controls



> \$0.17/kWh

Phase 1: HVAC Upgrade Program

- Replace all existing gas roof top units with energy efficient electric heat pump units with economizers
- Consolidate brands to **Carrier**– currently have > 5 brands on roof, all requiring different service levels & intervals
- Increase heating and cooling effectiveness with modernized control systems (Honeywell TC 500)
- Dramatically decrease maintenance expense (est 80% reduction in HVAC maintenance spend)



HVAC Upgrade Program Cost

Total HVAC Project Cost:	\$948,299
Estimated Annual Maintenance Savings:	\$50,441
Estimated Gas Savings:	\$30,000
Estimated Additional Electric Usage:	\$30,000
PNM Rebate:	\$50k-100k
Simple Payback:	13.5
Ten Year Maintenance Savings:	\$660,336

*Can reduce cost by 6% if Approved 179D Tax Deduction is applied to the project and contract signed by July 1 (179D deadline)


Phase 2: Photovoltaic Installation

- Grid-tied, distributed generation solar systems for main building and gym
- Total system size of 300 kWh DC
- Estimated 85% Electrical Offset
- Playground Shade, ground mount, and roof mount options
- Utilizing Tier-1 PV bi-Facial Modules

AXITEC®

AXIworldbipremium XXL HC MT
540 - 550 Wp

High performance bifacial solar module
144 halfcell, monocrystalline


 German-American-Engineering

The advantages:

- 15 Years** 15 years Manufacturer's warranty
- HC** High module performance through Half-Cell-technology and selected materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- IP 68** High quality junction box and connector systems
- 25 Years** 25 years Performance guarantee

Exclusive linear AXITEC high performance guarantee!




ETL
Intertek
CERTIFIED
Conforms to UL 6170 No. 1003
Certified to UL 6170 No. 1003

AXITEC, LLC, 130 N. Radnor Chester Road, Suite F-200, Radnor, PA 19087, www.axitecsolar.com

Solar Sites



Main Building Playground Array
175 kW DC
Est 85% Offset



Gym Rooftop Array
125 kW DC
Est 85% Offset

Solar Installation Projected Cost

	Playground Shade Array	Gym Rooftop Array	Total
Solar Cost:	\$869,072	\$425,119	\$1,294,191
Annual Energy Savings (est):	\$50,388	\$35,046	\$85,434
Federal Investment Tax Credit & Adders (40%)	\$347,628	\$170,047	\$517,676
Simple Payback (with FITC applied):	10.3 Years	7.3 Years	9.1 Years
Twenty Year Utility Savings:	\$1,500,458	\$1,043,603	\$2,544,061

Financing

Funding Options

1. Municipal Equipment Lease

- Flexible loan terms – 7-15 years, low interest rates
- Can fund up to 100% of HVAC and solar project

2. NMFA – Public Project Revolving Fund

- Most likely lowest interest rates available, long terms available, application process may take a few months due to required NMFA board approval and timing

3. Lease Purchase Agreement

- Will establish a fixed utility rate (example - \$0.14/kWh), will not go on balance sheet, but school will not receive FITC



Project Totals

Total HVAC Cost:	\$948,299
Total Solar Cost:	\$1,294,191
Total Initial Cost:	\$2,242,490
Utility Rebates (pending PNM statements/approvals):	~\$50-100k
Federal Investment Tax Credits (Est 40% - Cash Payment to El Camino Real)	\$517,676
FITC Applied to Project Balance:	\$517,676
2027 Utility & Maintenance Savings:	\$140,434
Simple Payback:	12.3 years
Twenty Year Utility & Maintenance Savings:	\$4,181,839

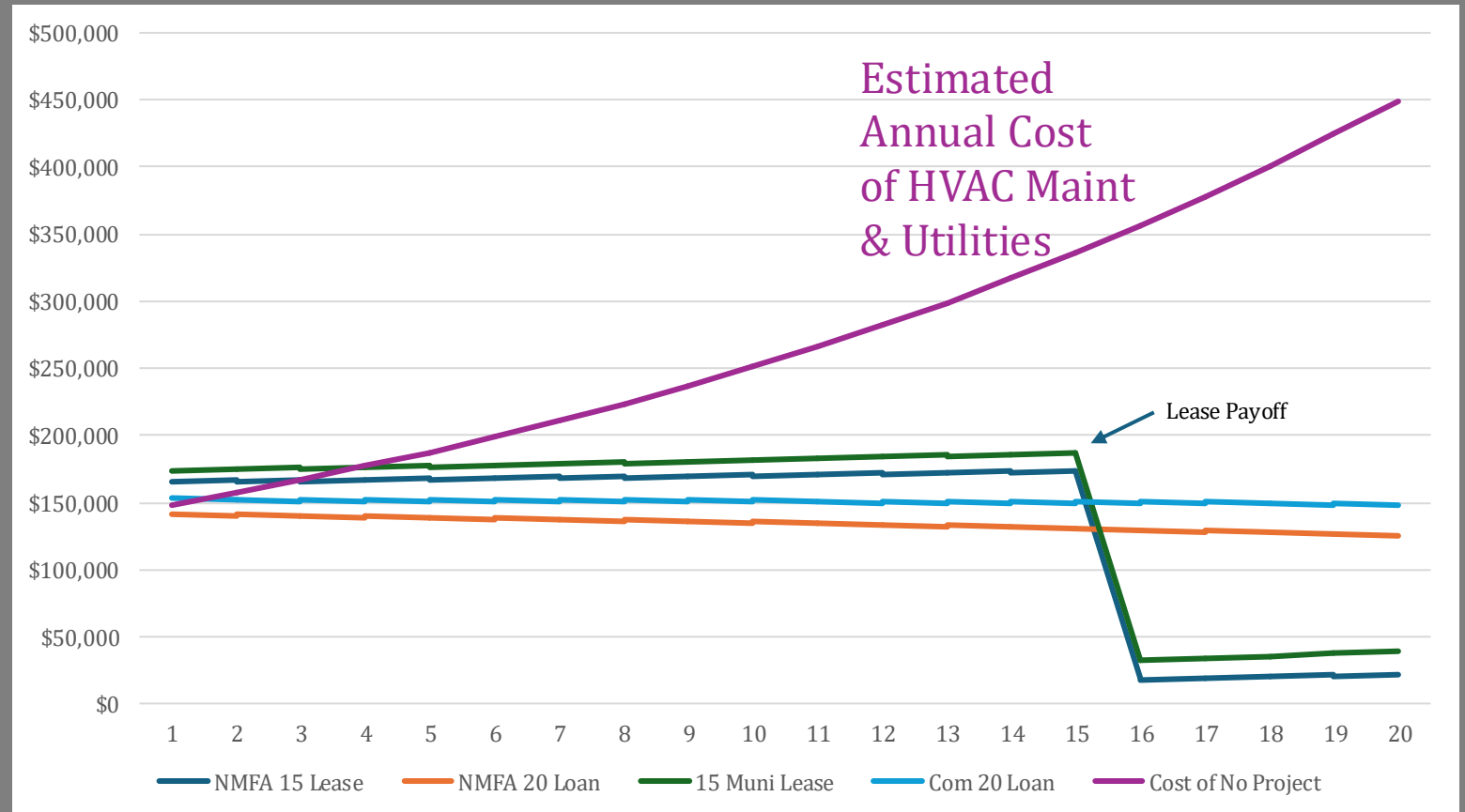
Financing Options

	NMFA 15 Year Lease	NMFA 20 Year Loan	Commercial 15 Year Muni Lease	Commercial 20 Year Loan
Total Project Cost:	\$2,242,490	\$2,242,490	\$2,242,490	\$2,242,490
Applied Rebates/Incentives:	\$417,676	\$417,676	\$417,676	\$417,676
Total Financed Amount:	\$1,824,814	\$1,824,814	\$1,824,814	\$1,824,814
Interest Rate:	4.5%	4.75%	5.0%	5.5%
Monthly Payment:	\$13,960	\$11,792	\$14,431	\$12,553
Remaining Utility Exp:	\$833	\$833	\$833	\$833
Total Ongoing Monthly Expense:	\$13,809	\$11,745	\$14,473	\$12,698
Current Total Monthly HVAC Maint & Utility Expense:	\$12,383	\$12,383	\$12,383	\$12,383
Effect on current monthly budget:	+ \$1,426	- \$638	+ \$2,090	+ \$315

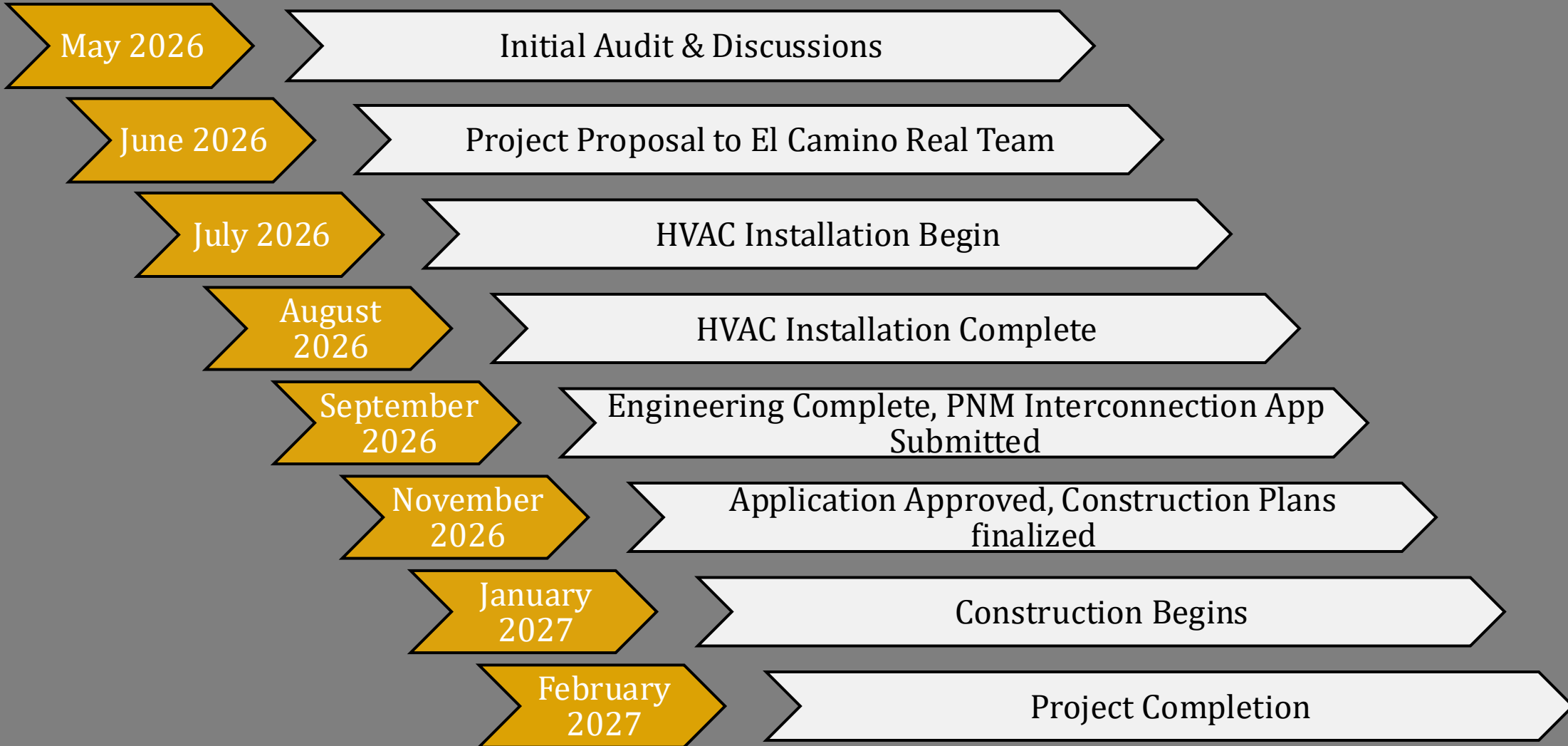
Long Term Budget Savings

By installing HVAC system and solar array, El Camino hedges against utility and maintenance inflation

School will STILL have \$50-100k PNM Rebate to install playground shade structure over tot - playground



Implementation Roadmap



Why Energy X?

Experience

With over 30 years of experience in public service and energy conservation, our team understands and resolves the issues our customers face

Procurement

We partner with The Interlocal Purchasing System (TIPS), CES and other state and national procurements to offer our customers reliable purchasing and agreements

Service

We specialize in serving those who serve our communities – specifically public and private schools, local government, first responders, and health care facilities

Prior Projects:



Albuquerque Housing Authority
Rooftop Solar



Santa Fe Community College
1.5MW Solar array



Santa Fe High School
1MW Solar array



Las Cruces Public Schools
Lighting Retrofit - \$134k/year saved



City of Las Cruces
Lighting Retrofit - \$300k/year saved



Sierra Vista Unified School District
Lighting Retrofit - \$300k/year saved

Next Steps

- Identify Preferred Solar Installation Locations
- Identify Funding Mechanisms

