

Town of Frisco

Energy Project Update

August 27th, 2024



COLORADO
Energy Office

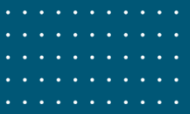


AGENDA

SRO

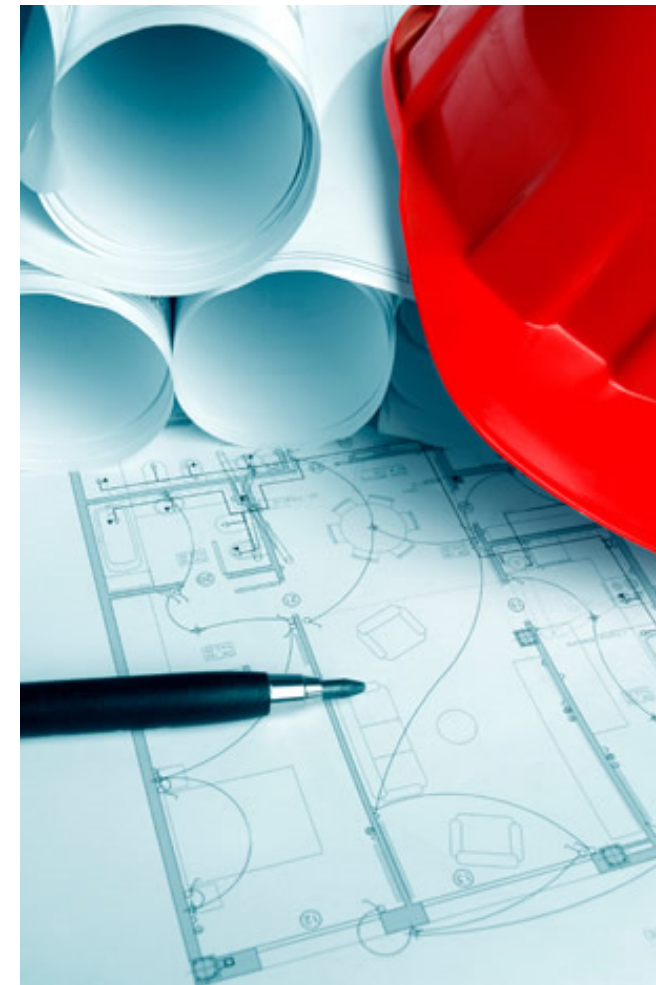
- Purpose
- Project Overview
- Project Scope
- Timeline
- Next Steps





Purpose

- Update Town on McKinstry's energy audit progress
- Review project scope with cost & savings estimates
- Discuss funding sources and path to implementation



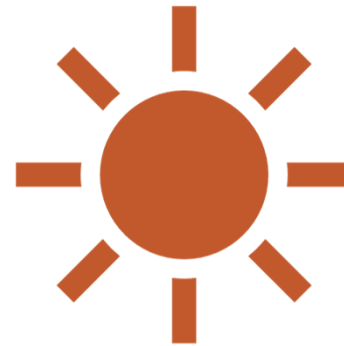
Project Overview - Goals



REDUCE
ENERGY USE,
COSTS & GHG
EMISSIONS



RETROFIT
ADDRESS
CAPITAL &
MAINTENANCE
NEEDS



INCREASE
RENEWABLE
ENERGY
GENERATION



EDUCATE
STAFF AND
PROMOTE
PROJECT

Project Overview – Energy Performance Contracting (EPC)



A **financing & contracting tool** that allows public entities to use guaranteed savings from efficiency improvements to fund capital projects

**25
yrs**

Colorado's EPC **proven program** in use

200M

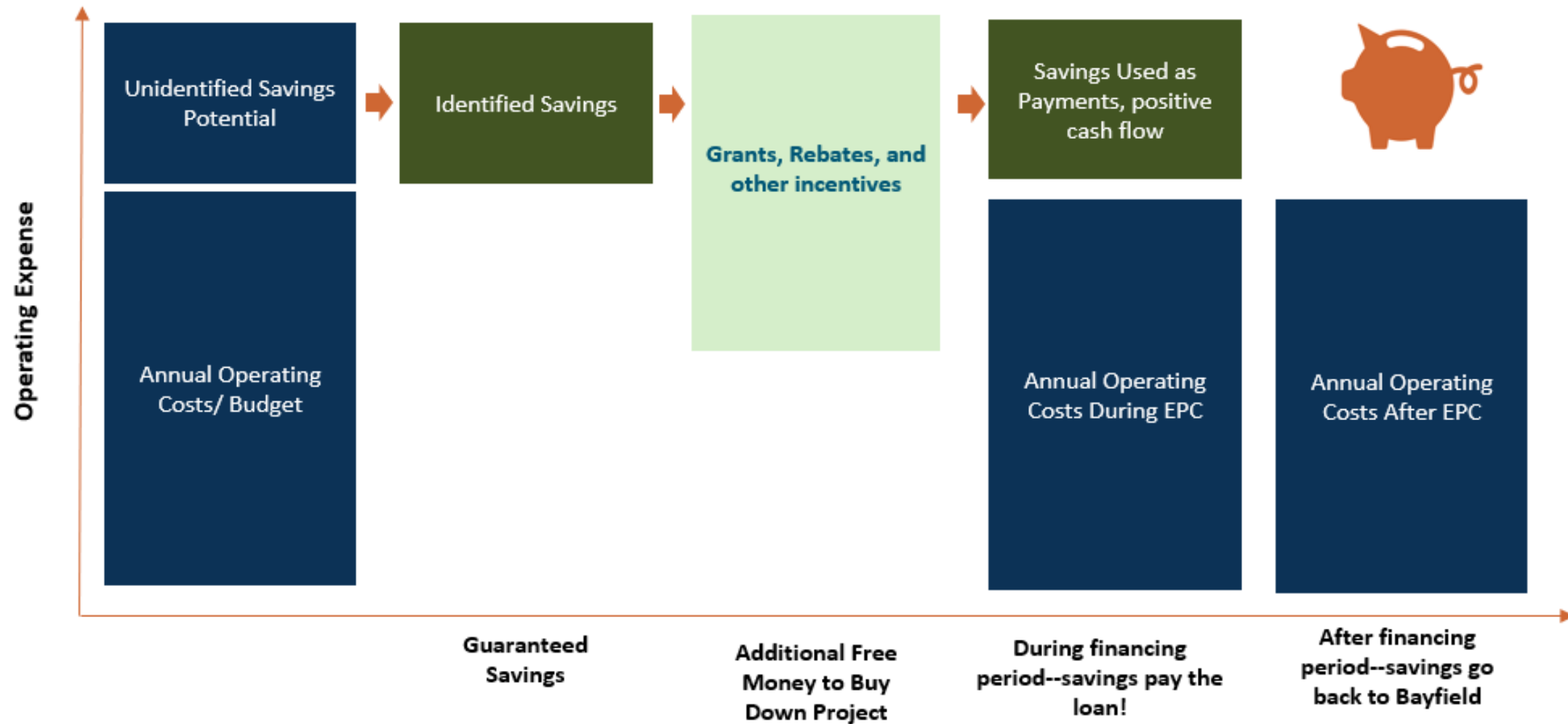
Energy (kWh) **savings achieved** in public buildings

**\$44
M**

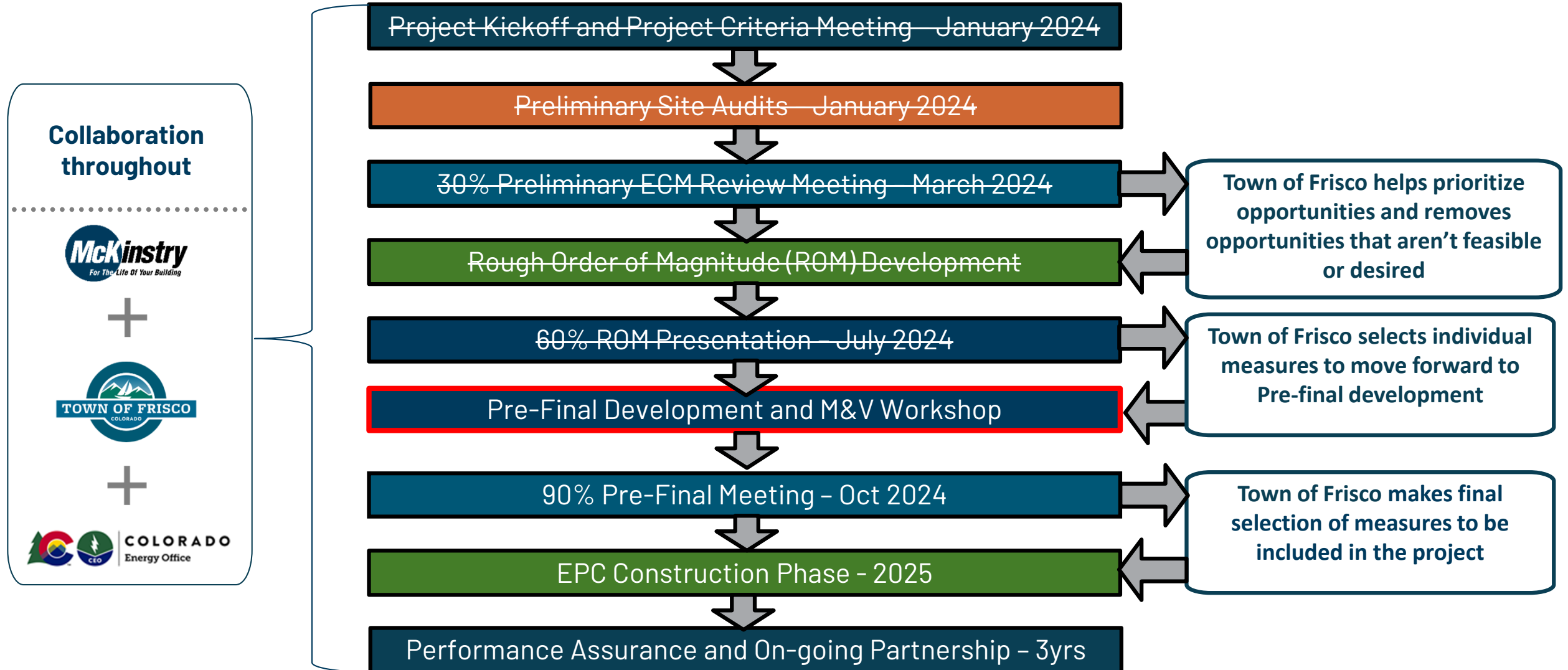
Annual cost savings realized in participating communities



EPC101 - Performance Contracting Overview



Project Overview – Investment Grade Audit (IGA) & EPC Process



Project Scope - Utility Spend & Funding Sources

Total Approximate Utility Spend: \$101,646

Electric: \$61,882, Natural Gas: \$39,764, Water \$0

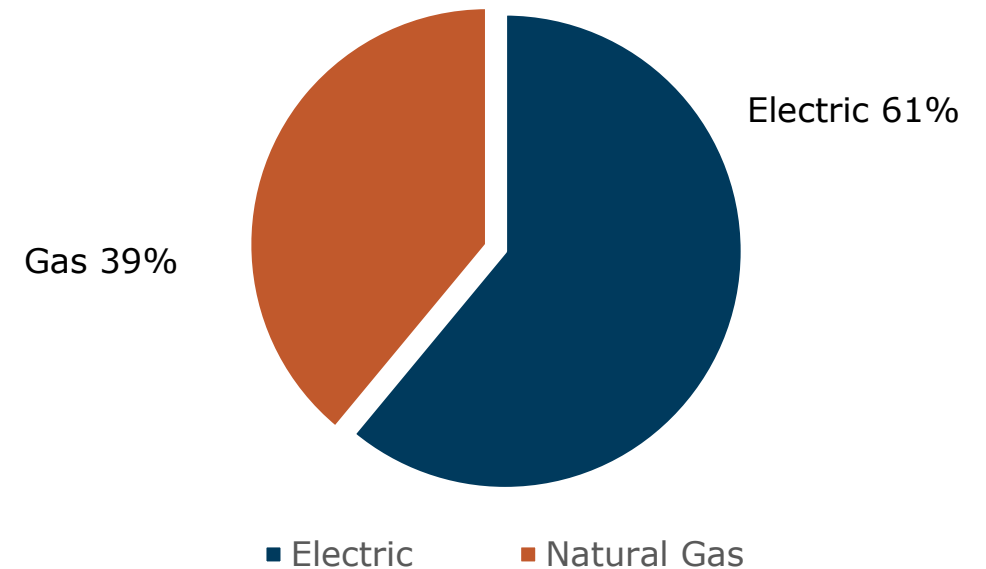
Energy Savings Funding Potential:

- 15 year term energy savings: \$354K
- 20 year term energy savings: \$472K
- Does not include grants or Town capital

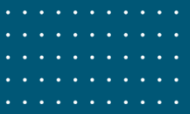
Other Available Funding Sources:

- DOLA Energy and Mineral Impact Grant: \$1M
- Public Building Electrification Grant: Up to \$500k
- Colorado Energy Office
 - Geothermal Energy Grant Program: \$120k
 - Charge Ahead Colorado EV Charger Grant: \$30k
- Town Capital: \$250k
- Inflation Reduction Act – \$541k (25% of installed solar or GSHP cost)

Utility Breakdown







ROM Costs and Savings

COSTS

- Costs are budgetary and based on preliminary design & scope narratives
- Costs are turn-key and include all services (audit, design engineering, permitting, performance bond, sub-contracts, pre-construction services, construction management, construction close-out services, commissioning, M&V and warranty management costs) required to implement the scope
- Competitive bid process for MEP and Solar PV scopes to occur during next phase.

SAVINGS

- Preliminary savings calculations. Not yet guarantee level
- Data-logging & trend analysis to occur during next phase

Project Scope – Cost & Savings Summary (ROM level)

ECM	Include (1=Y, 0=N)	Turn-key ECM Cost	Rebates	Net Cost	Guaranteed Annual Savings	Annual CO2 Savings (met-tons)
Lighting	1	\$ 100,000	\$ (1,000)	\$ 99,000	\$ 23,600	173
Building Envelope	1	\$ 122,000	\$ (1,000)	\$ 121,000		
EV Charger	1	\$ 200,000	\$ (2,500)	\$ 197,500		
Solar PV	1	\$ 667,000	\$ -	\$ 667,000		
Smart Heat Trace Controllers	1	\$ 50,000	\$ -	\$ 50,000		
Day Lodge GSHP System	1	\$ 1,454,000	\$ (13,000)	\$ 1,441,000		
Controls Upgrades	1	\$ 269,000	\$ (2,000)	\$ 267,000		
EnergyStar Refrigerators	1	\$ 10,000	\$ -	\$ 10,000		
powerED Occupant Engagement	1	\$ 24,000	\$ -	\$ 24,000		
Subtotals		\$ 2,896,000	\$ (19,500)	\$ 2,876,500	\$ 23,600	173
	1		DOLA Grant	\$ (1,000,000)	SPB	
	1		Geothermal Grant	\$ (120,000)		
	1		Electrification Grant	\$ (500,000)		
	1		Charge Ahead Colorado Grant	\$ (30,000)		
	1		IRA Tax Credit	\$ (541,000)		
	1		Town Capital	\$ (250,000)		
			Net Cost	\$ 435,500	18.5	
			20 year Energy Savings	\$ 472,000		

Project Scope - Benefits

- Improved lighting for WTP, PRA Mx and Tubing Hill
- Increase renewable energy portfolio by 98 kW
- Electrify Day Lodge with GSHP System & Elec DHW
- Capitalize on available grant, rebate and tax incentives
- Improved comfort & Remote Monitoring Capability
- Turnkey design and installation with on-site project management to reduce burden on Town of Frisco staff



Timeline & Next Steps

Milestone	Target Date
Kick-off Meeting	Complete
Preliminary ECM Meeting	Complete
Rough Order of Magnitude Presentation (results of prelim audit)	Complete
DOLA Grant Application Due	Complete
Geothermal Energy Grant: \$120K	Colorado Energy Office targeting this September
Public Building Electrification Grant (PBEG): \$500k	No due date, just need to update existing application
Charge Ahead Colorado (EV Charging Stations): \$30k	Expected in September, due in October
Pre-Final Presentation (results of detailed audit)	December 2024
Delivery of IGA Report / ESPC Contract (predicated on grant awards)	December 2024
ESPC Contract Executed / Financing in place	February 2025
Implementation Phase	2025
Measurement and Verification Phase	3 yrs post-construction



Thank you!

