

Town of Frisco

Energy Project Update

August 27th, 2024



AGENDA

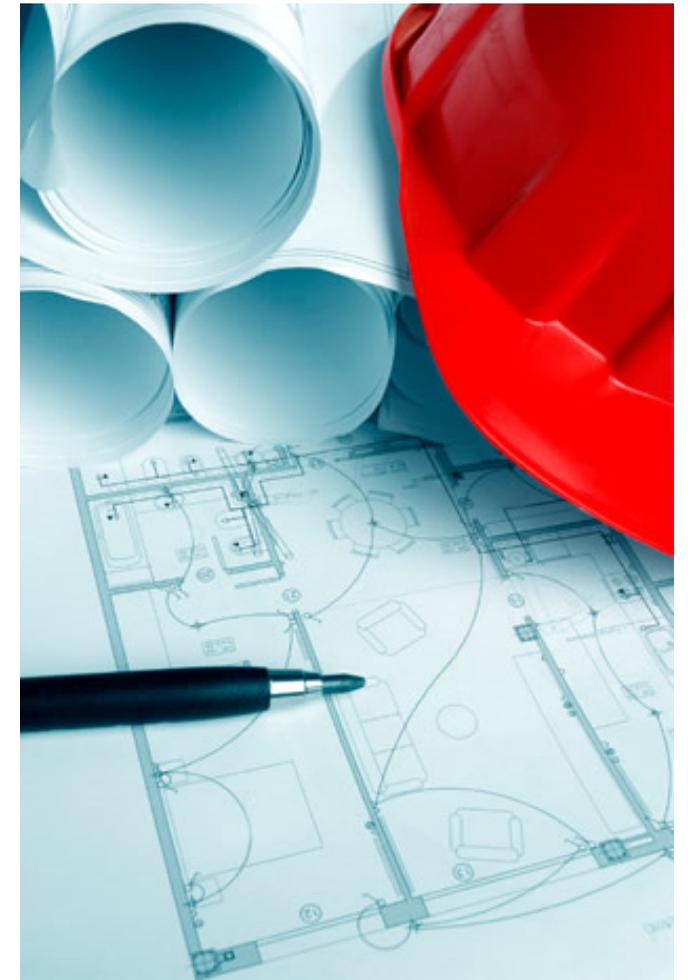
SRO

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

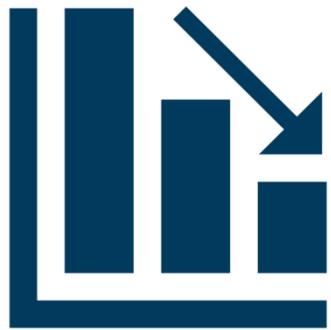


Purpose

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



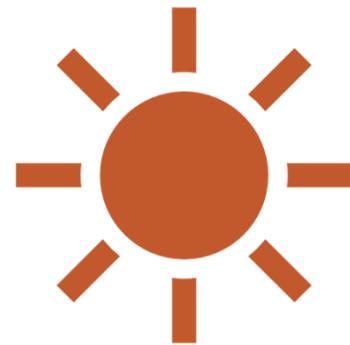
Project Overview - Goals



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

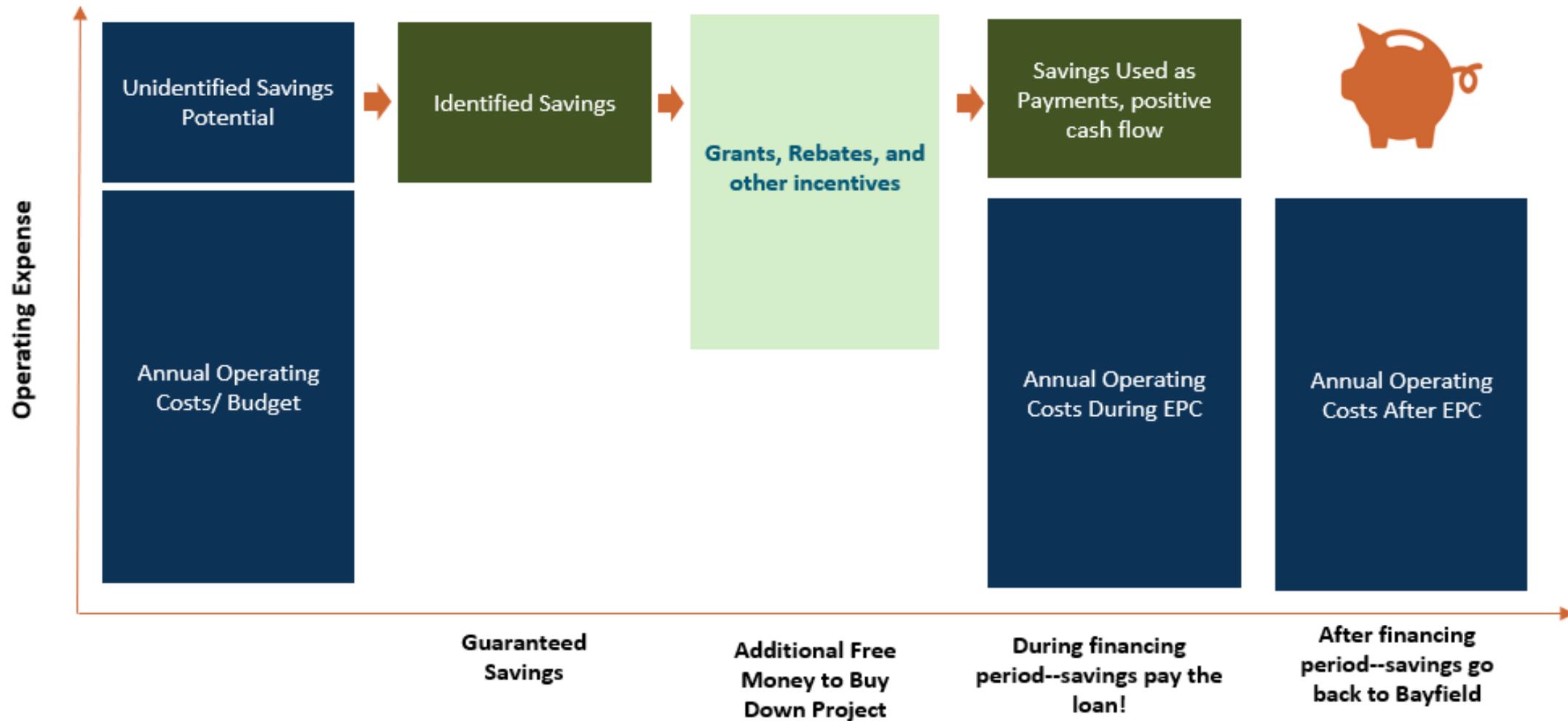
Energy (kWh) savings achieved in public buildings

\$44
M

Annual cost savings realized in participating communities



EPC101 - Performance Contracting Overview



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

Collaboration throughout

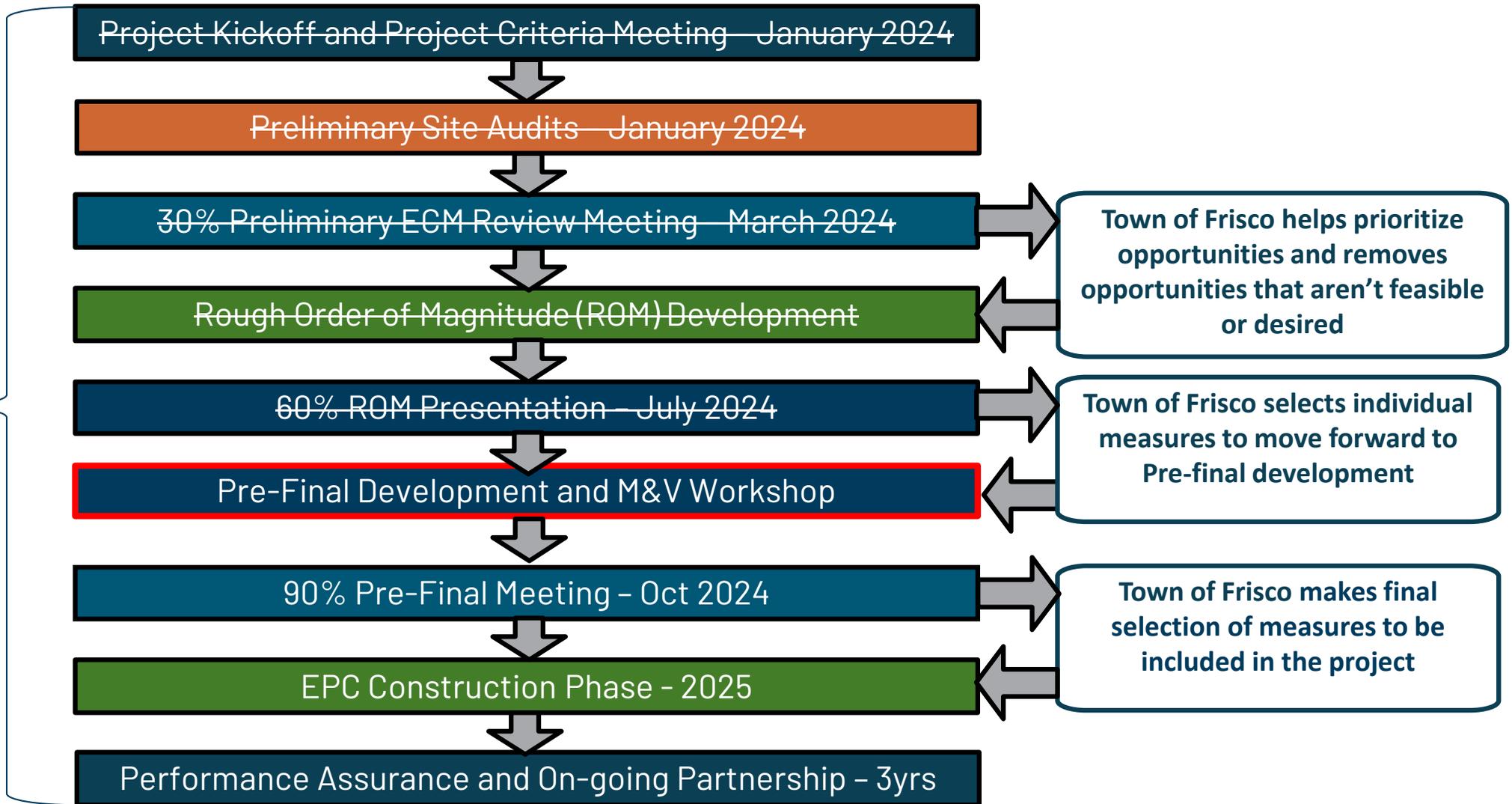
McKinstry
For The Life Of Your Building

+

TOWN OF FRISCO
COLORADO

+

COLORADO
Energy Office



Project Scope - Utility Spend & Funding Sources

Total Approximate Utility Spend: \$101,646

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

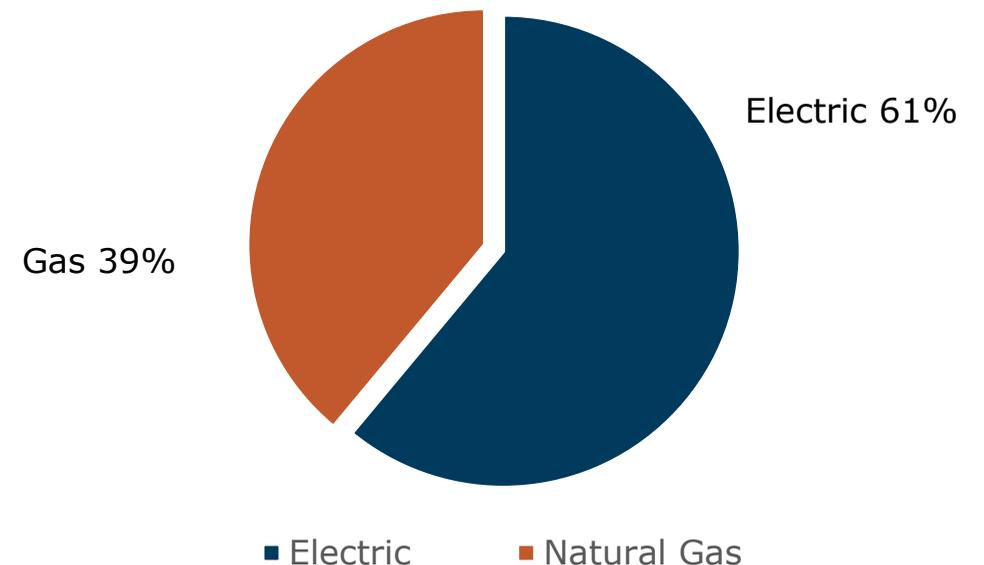
Energy Savings Funding Potential:

- 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		
	1		DOLA Grant	\$ (1,000,000)		
	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)	SPB	
			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!

