



# Energy Performance Contract May 23, 2023





# iconergy

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- A Colorado local-Colorado native company
- Denver Headquarters and a satellite office in Boulder
- Our team represents 110 years of combined experience and over \$500M in projects delivered.
- Supporting many public sector clients with facility improvements and efficiency services.
  - Morgan County, Clear Creek County, Haxtun School District, Plainview School District, Town of Center, Eagle County Schools, Fort Collins
- Utilizing programs, rebates and grants from DOLA, utility companies and other sources to support solutions to deferred maintenance and other operational issues.
- Pre-Qualified ESCO for the Colorado Energy Office EPC program

# Town of Erie

## Facility Improvements & Renewables Project

### Problem and Urgency

- Aging facilities stressed by increased use due to population growth.
- Building systems are beyond useful life and need replacement.
- Technologies of current systems are outdated and obsolete.
- Existing systems cannot provide adequate health-safety environments.
- Costs to operate inefficient systems are drastically increasing.





# Systems Efficiency Improvements Include

1. LED Lighting Upgrades to improve outdated and inefficient systems.
2. Townwide integrated building automation to improve health, safety and reduce costs.
3. Solar PV installation at the Erie Police Department to implement cost effective renewables.
4. Water Reclamation Facility lab hood controls for improved indoor air safety.
5. Replace ECC pool chlorine system with On-Site HypoChlorite Generation to improve health safety.
6. Pool pump controls and Total Dissolved Solids (TDS) sensor for improved efficiency and water savings.
7. Install low flow and automatic flush valves on municipal faucets and fixtures for water savings.

# Funding and Implementation

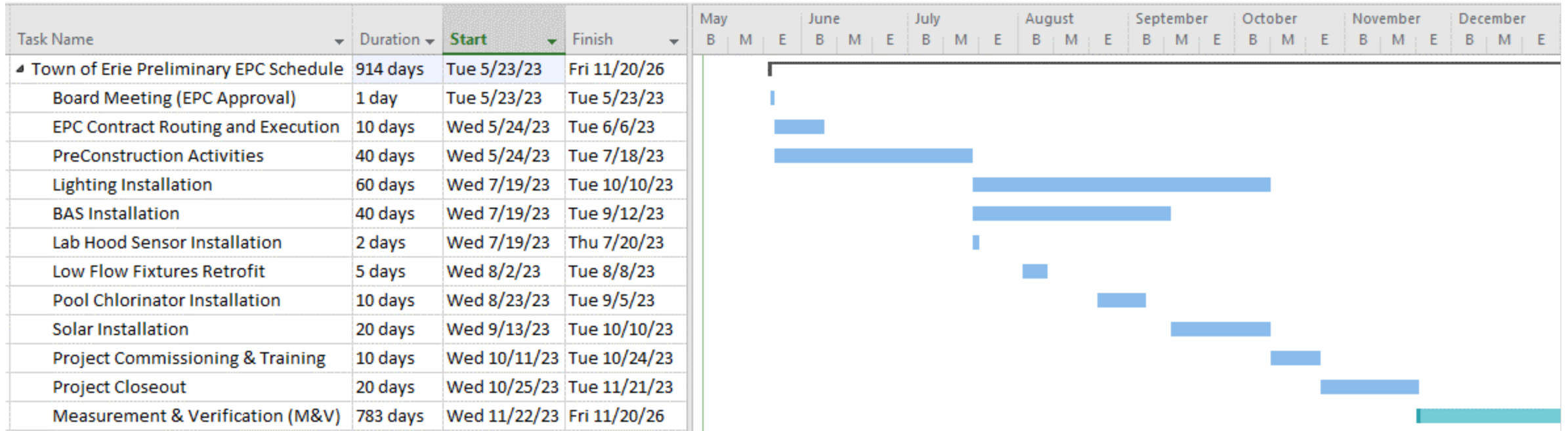
- Total project cost: \$1,549,990
- DOLA EIAF Project Grant provides 45% of project costs: \$700,000
  - The EIAF grant supports the measures not fully fundable by energy savings
- The project will be implemented by Iconergy through the Colorado Energy Office (CEO) Energy Performance Contract program
  - Program outcome is guaranteed.
  - CEO provides project oversight through implementation.
  - Results are tracked yearly via required 3-year measurement and verification.

# Project Measures Savings and Costs

#	Measure Description	Utility Cost Savings (\$/yr)	O&M Cost Savings (\$/yr)	Total Cost Savings (\$/yr)	Rebates/ Incentives (\$)	Implemen- tation Costs (\$)	Simple Payback (yr)
1	Lighting - LED Retrofits - All except TH	\$ 33,873	\$ 6,995	\$ 40,867	\$ 12,623	\$ 576,585	14.1
2	BAS Upgrades & Cx - ECC, P&C, LAWSC	\$ 2,896	\$ -	\$ 2,896	\$ -	\$ 368,468	-
3	Solar PV Rooftop - P&C	\$ 9,197	\$ -	\$ 9,197	\$ -	\$ 220,706	24.0
4	Lab Hood Vacancy Sensor - NWRP	\$ 1,299	\$ -	\$ 1,299	\$ -	\$ 3,411	2.6
5	On Site HypoChlorite Generation- ECC	\$ (75)	\$ 8,956	\$ 8,881	\$ -	\$ 147,131	16.6
6	Low Flow Faucets/Fixtures	\$ 1,651	\$ -	\$ 1,651	\$ -	\$ 8,374	5.1
7	Pool - 2VFDs and TDS - ECC	\$ 10,789	\$ -	\$ 10,789	\$ -	\$ 28,549	2.6
<b>Total</b>		<b>\$ 59,629</b>	<b>\$ 15,951</b>	<b>\$ 75,580</b>	<b>\$ 12,623</b>	<b>\$ 1,549,990</b>	<b>20.5</b>



# Target Implementation Schedule





# What this program does for carbon dioxide reduction equivalent to:

- 67 gas-powered passenger cars driven in one year
- 771,966 miles driven by the average car
- 344,093 pounds of coal consumed
- 4.1 tanker trucks of gas
- 60.5 homes' electricity use for one year
- 12,700 home BBQ propane cylinders
- 27,830,863 smart phones charged