Crosby ISD SECO LoanSTAR Project



January 21, 2025

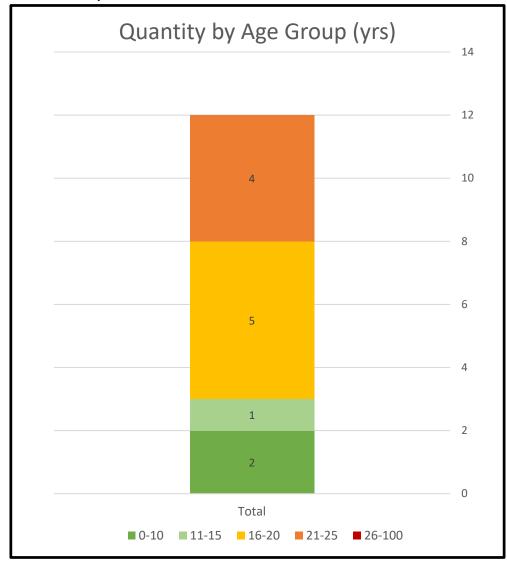


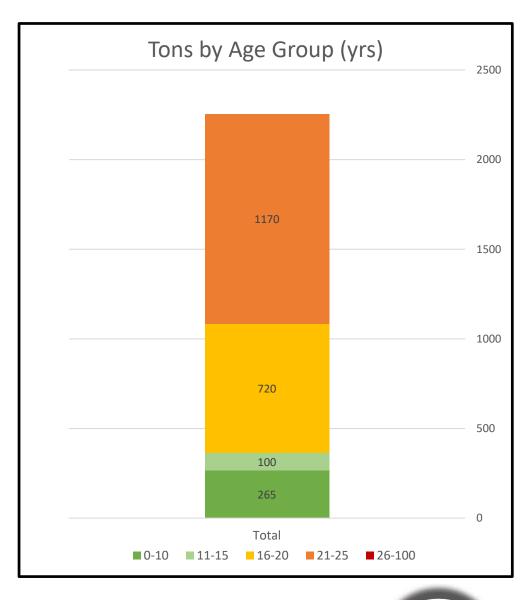
ON SAVING YOURS.



HVAC – Chillers

Crosby ISD









Financial Opportunity

State Energy Conservation Office (SECO) LoanSTAR Program:

- Loan at 1.5% fixed for up to 15 years.
- Loan must be used for energy efficiency upgrades such as lighting, control systems, and HVAC.
- The State requires the LoanSTAR loan to pay for itself, so this project should be at **least budget neutral**.
- Crosby requested \$4,412,715 in funding allocation



Executive Summary

- Replace 3 chillers and 2 DX units at Crosby Middle School
- Replace 4 pumps at Crosby Middle, 2 pumps at Crosby Elementary and VFDs
- Comprehensive LED Lighting retrofit throughout the district (High School is already LED)
- Update Building Automation System and Retrocommissioning
- Power Factor Correction
- Electrical Phase Protection
- Total Annual Savings of \$433,133



TABLE 1 – SUMMARY OF INDIVIDUAL UTILITY COST REDUCTION MEASURES

UCRM No.	UCRM Title	Annual Savings							OS.M	Total	LICDM		Estimated
		Electric Energy (kWh/yr)	Demand (kW/yr)	Electric (\$/yr)	Natural Gas (MCF/yr)	Natural Gas (\$/yr)	Water (kgal/yr)	Water (\$/yr)	O&M Savings (\$/yr)	Annual Savings (\$)	UCRM Loan Cost (\$)	Payback (yrs)	UCRM Lifetime (Yrs)
1.0	LED Lighting Retrofit	1,345,596	4,773	\$143,895	(70.3)	(\$537)			\$58,239	\$201,597	\$1,590,179	7.9	15
2.3	HVAC and Controls Renovation	2,268,032	3,987	\$204,510						\$204,510	\$2,530,574	12.4	15
4.1	Power Factor Correction Improvement		2,884	\$27,026						\$27,026	\$120,488	4.5	10
Totals 3,613,628 11,644 \$375,431 (70.3) (\$537) 0 \$0 \$58,239 \$433,133						\$4,241,241	9.8						
Utility Assessment Report Cost									\$107,617				
Construction Bonding Cost										\$63,448			
Owner's Administration, Management, Training & Other Cost										\$0			
IMPLEMENTATION COST											\$4,412,306	10.2	













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