



Ideal Impact

Writing Success Stories, One Student At A Time.

Providing More Funding for Duncanville ISD

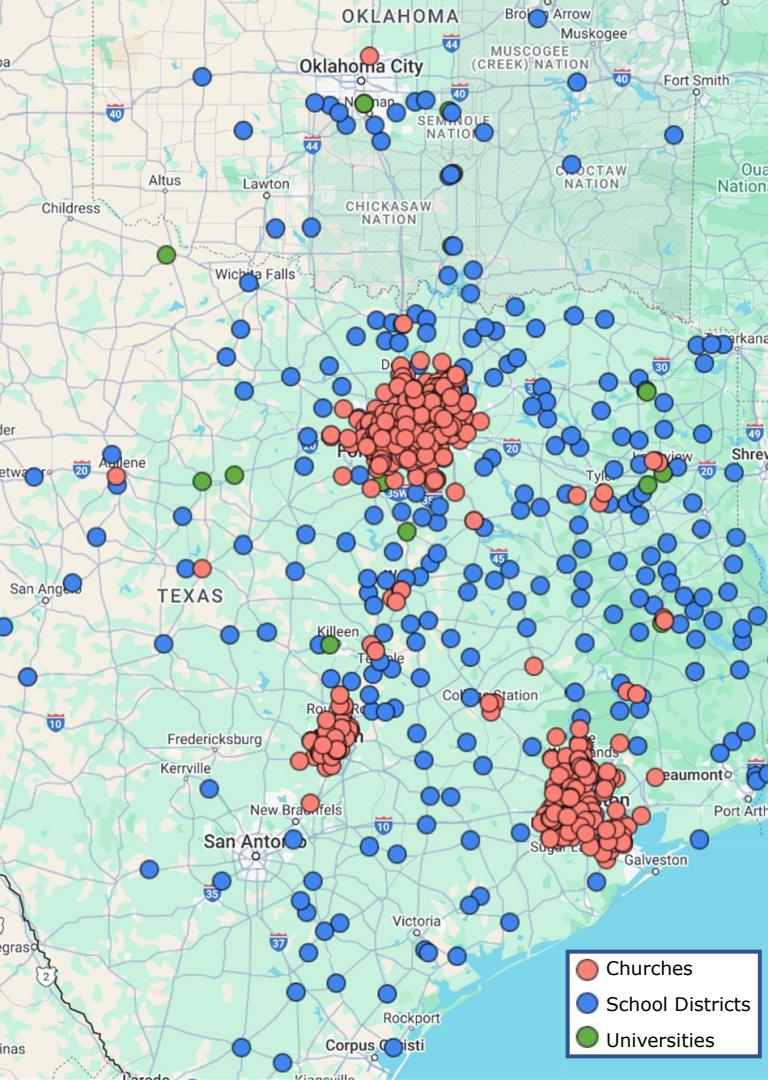


Save
Money



Conserve
Energy

Impact
Lives



**740+ Churches
250+ School Districts
25+ Universities**

\$2.2 billion

Billing Analysis

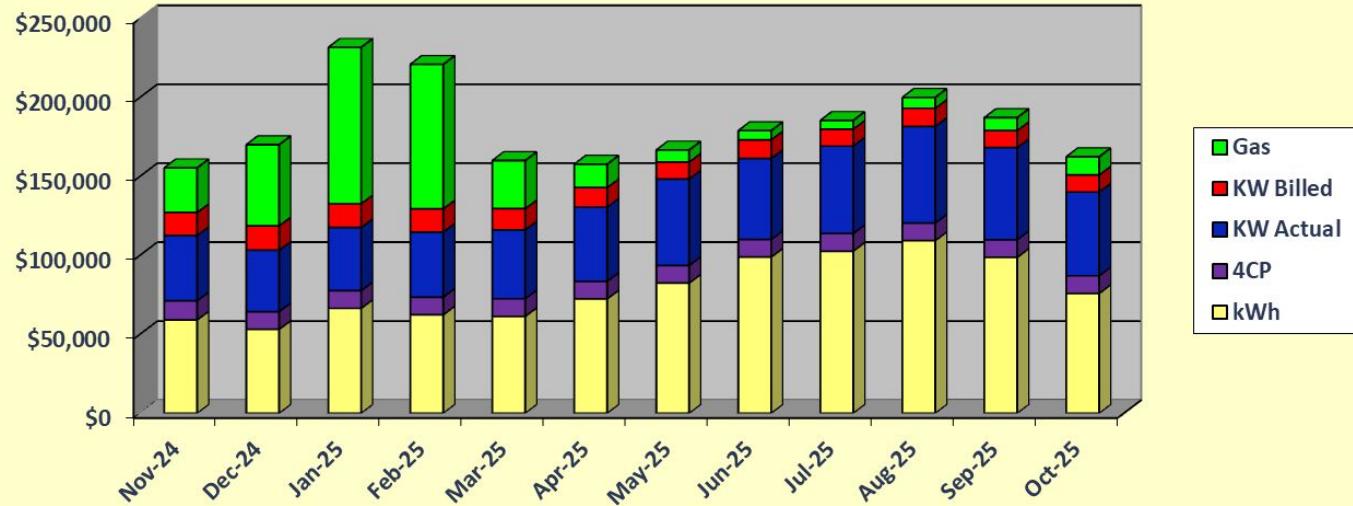
Annual Energy Spend
\$2,176,718

Demand Portion
40% of Total Bill
\$873,034

Meter Breakdown
80% Ratchet – 100%
4CP – 40%
D0/E0 – 30%

Energy Rates
\$/kWh - \$0.048
\$/KWA - \$4.24
\$/KWB - \$8.61
\$/4CP - \$5.48

Total Bill



Impact on Energy Output

Louise ISD

EUI (kBtu/sqft)	Before	After
	44.8	21.3

Calhoun County ISD

EUI (kBtu/sqft)	Before	After
	36.8	26.3

Freer ISD

EUI (kBtu/sqft)	Before	After
	48.5	26.9

Kennedale ISD

EUI (kBtu/sqft)	Before	After
	32.3	20.5

Duncanville ISD

EUI (kBtu/sqft)	Before	After
	44.8	29.8

Virtual Endowment

Duncanville ISD

Active Revenue Creation

	Basic Commitment	Committed Steward
Current Energy Expenses	\$2,176,718	\$2,176,718
Proposed Savings (%)	\$740,084	\$827,153
15 Year Savings Total*	\$18,597,590	\$20,785,542
Net 15 Year Savings	\$14,775,411	\$16,963,363

**adjusted for utilities cost inflation*

Current Annual Spend
\$2,176,718



Committed Steward
\$827,153

80%
\$661,722

20%
\$165,431

District Improvements
\$3,822,179

**Additional Savings
and Benefits**



**5.77 year payoff
(without rebate)**

**Net 15 year
\$16,963,363**

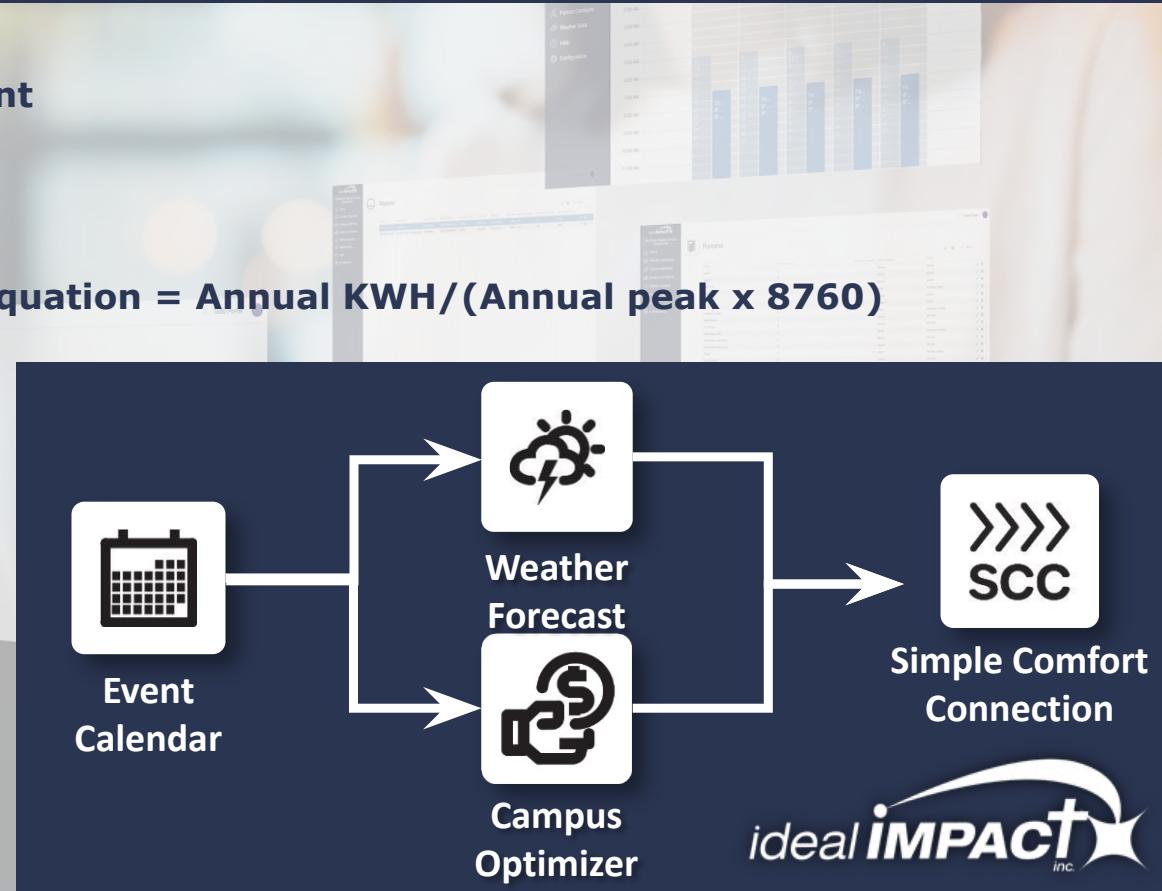
Optimization Highlights

- Use our experience from saving energy and improving comfort in thousands of buildings on your campus
- Make improvements to the controls and processes at the start, new controllers on 1,405 units, major control improvements on 1,439 pieces of HVAC equipment
- Improve Relative Humidity and Indoor Air Quality
- Monitor and analyze the results
- Make improvements to HVAC (1,439 pieces of HVAC equipment), controls, zoning, weatherization, comfort issues, operating strategies, usage, and needs
- Build and tune a detailed energy plan & document it in several levels of detail for multiple individuals
- Train your personnel on how to use the plan, tools, and technology to achieve long-term savings for Duncanville ISD
- Ideal Impact available throughout term of the agreement for energy-related consulting
- Customize Ideal Impact Campus Optimizer (*Patent Approved*) for 1,439 pieces of HVAC equipment and the spaces they serve

Campus Optimizer

(Multi-Dimensional Matrix to maximize both *comfort* & *savings*)

- 1) Temperature/Comfort
- 2) 1,439 pieces of HVAC equipment
- 3) 1600 Rooms
- 4) 1800 Events
- 5) Reduce kWh
- 6) Optimize Annual Load Factor Equation = Annual KWH/(Annual peak x 8760)
- 7) Reduce CCF
- 8) Reduce KWa (15min/month)
- 9) Reduce KWb (15 min/year)
- 10) Reduce 4CP
- 11) Improve RH%
- 12) Improve IAQ
- 13) Ramp Times
- 14) Weather
- 15) Meters (80)
- 16) Rate Schedules





Questions?

Writing Success Stories, One Student At A Time.