



# Operating Budget Reduction Opportunities

February 2025



# Agenda

1. Why work together
2. Opportunities for quick impact
3. Overview of solutions
4. Overcoming obstacles
5. Q&A
6. Conclusion

# Why work together?





Factor	Value
<b>+10-year TCAP Partnership</b>	Working with a known entity
<b>Customer-focused partnership</b>	Contract for only what you need
<b>Integrated Efficiency</b>	Pay project costs through power bills
<b>Access to competitive funding</b>	Low-interest rates, lease/purchase, Engineering as a <i>service</i>
<b>Flexible contracting</b>	Options to the right →
<b>Multiple purchasing platforms</b>	TIPS, PCA



## ❑ Contracting options

- Consultant
- General Contractor
- Design/Build
- Owner's Representative
- Construction Manager

## Opportunities for Immediate Impact

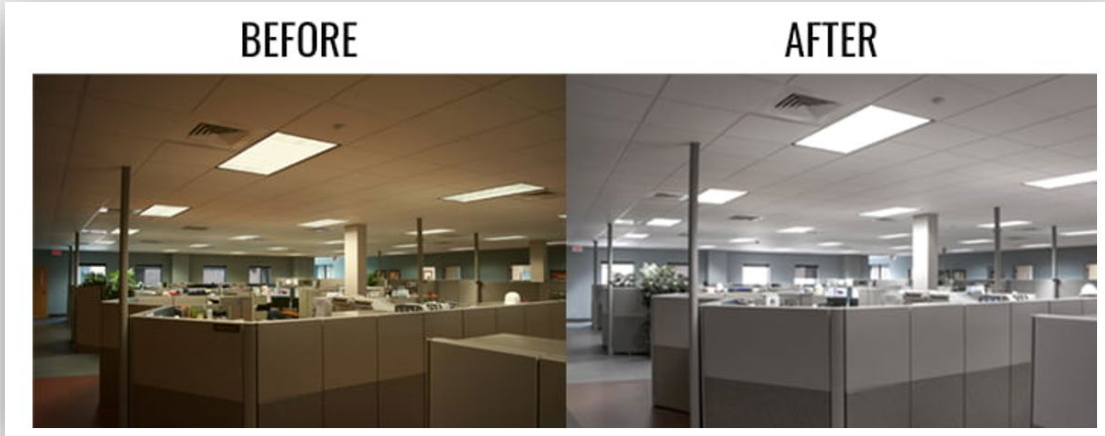
	Measure	Savings Range	Payback Time Frame
	Lighting Solutions	30% - 60%	1.5 to 4 years
	HVAC Optimization	10% - 25%	0.5 to 2 years
	Control Systems	5% - 15%	2 to 5 years
	Water Optimization	4 - 8% (revenue increase)	5 to 8 years

**All** above measures can be implemented as part of a phased or scaled approach

# Lighting

Savings Range: 30% to 60%

Payback timeframe: 1.5 to 4 years



2 x 4 fluorescent fixture = 84 watts

2 x 4 **LED** fixture = 36 watts

**LED = > 50% reduction** in energy consumption

## Challenges

- Inefficiency
- Equipment age
- High maintenance costs
- Legislative/Regulatory mandates
- Disruption to supply

## Solutions

- Definition of problem
- Measurement, analysis, & design
- Implementation (rapid)
- Better lighting

# HVAC Recommissioning

Savings Range: 10% to 20%

Payback timeframe: 0.5 to 2 years



**WHY?** Improve comfort - Reduce complaints - Improve air quality  
Extend equipment life - Improve building documentation

## Challenges

- Natural efficiency drift
- Aged/faulty equipment
- Sub-optimal operating modes
- Degraded air quality
- Occupant complaints

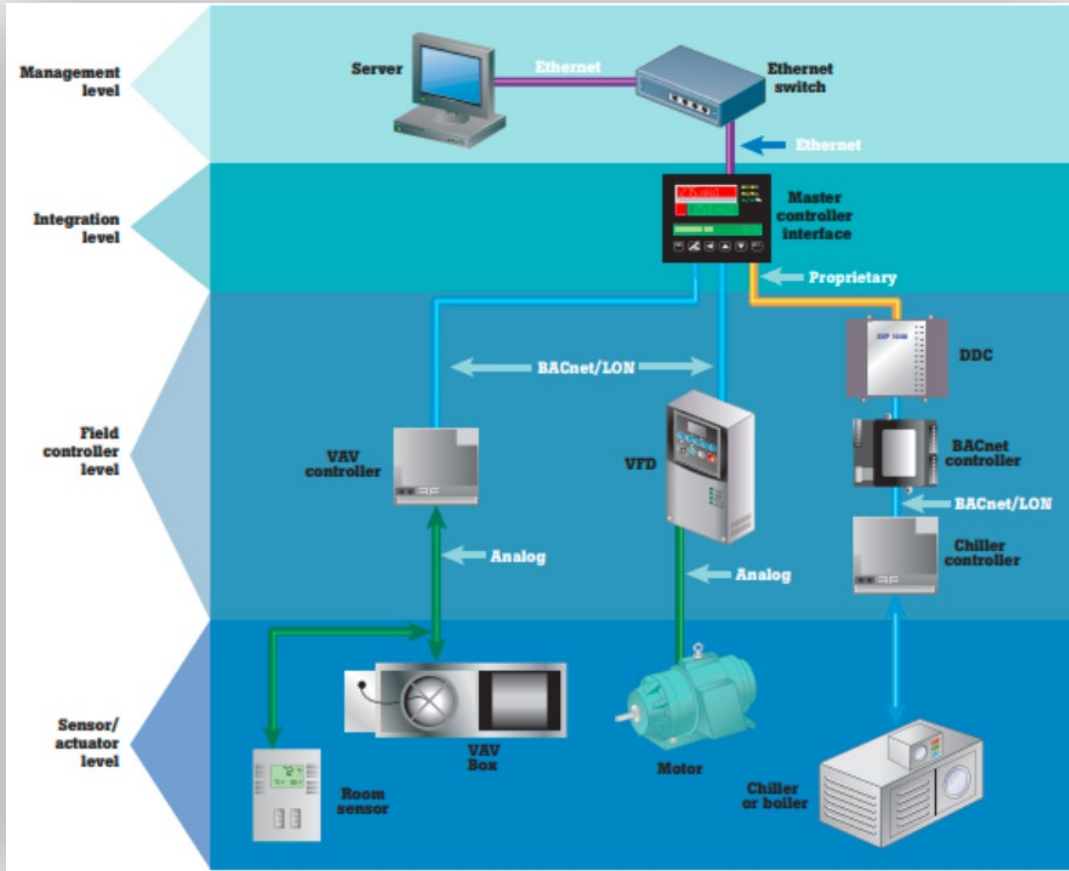
## Solutions

- Identify operating goals
- Assess & test to determine deviation from goals
- Restore system performance through corrective action

# Control Systems Recommissioning

Savings Range: 5% to 15%

Payback timeframe: 2 to 5 years



## Challenges

- Natural efficiency drift
- Aged/faulty equipment
- Sub-optimal operating modes
- Maintenance costs
- Occupant complaints

## Solutions

- Identify goals
- Analyze system performance to determine deviations
- Corrective action to restore system performance through hardware & software

# Water Solutions

Revenue Increase: 4% to 8%

Payback Range: 5 to 8 years



## Example: City of Everman

### Challenge

- Outdated water metering
- Resulting in loss of revenue
- Causing inefficient use of personnel for manual meter readings, data entry, and troubleshooting
- Poor lighting

### Solution

- Performed analysis of water and power demand
- Proposed 1,968 auto-read metering system to enable collection of all reads in single day
- Recovered over \$65k in lost revenue
- Saved \$18k in operating costs
- Also implemented lighting retrofit, resulting in \$48k annual lighting savings



**Over \$2.2MM**

total savings - 20-year projection



**Over \$85,000**

in first-year savings



**\$65,733**

in first-year water meter revenue

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# How can we help you put money back in your budget?

Consider your opportunities & obstacles

## Most Common Reasons for NOT taking ACTION:

- Lack of funds
- Lack of time, crowded priorities
- Concerns with scope
- Don't want to lift too much
- Cost of finding out
- Stakeholder management

How can we help?

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# How can we help you put money back in your budget?

Secure good outcomes efficiently through project management





## Stakeholder Management

- Capture problem
- Document pain point
- Identify stakeholders
- Establish project team
- Support clear communications
- Facilitate Council presentations

**We are to help you succeed**

# Don't wait - put money back in your budget now

Start with a toe in the water

	Measure
	Lighting Solutions
	HVAC Optimization
	Control Systems
	Water Optimization

Please contact us for a preliminary analysis at no cost to you

# Thank you!

We look forward to working together.



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