

Multi - Family HVAC & More

Urban Income Eligible Energy Efficiency Case Study



Presented by:
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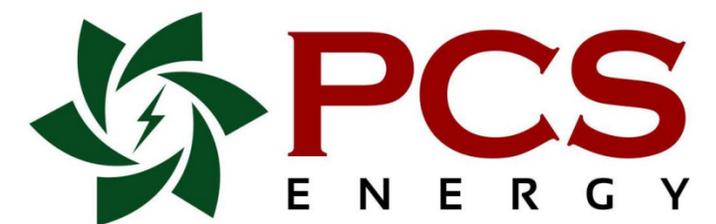


Agenda



- About Us
- Company Overview
- Project Objectives
 - Direct Install Measures
 - Electrical Measures
 - Heating & Cooling Measures

- Estimated Energy Efficiency Projections
- Project Challenges
- Execution
- Get in Touch



About Us



Kyle Pogue - President

- Owner and founder of Peoria Contract Services and PCS Energy
- Born and raised in the NE Oklahoma area
- Member of the Peoria Indian Tribe of Oklahoma
- Washington University EMBA Alum
- Married, with three children: a senior at Cor Jesu Academy and a 3rd grader and 1st grader at St. Joseph - Imperial

Ariana Arnone - Business Coordination Manager

Seifer Creed - Team Mascot

- Chicago Native
- HVAC- Residential & Commercial
- America's Most Trusted Brand - Trane



Company Overview



- General Contractor
- Electrical Contractor
- Heating & Cooling Contractor



[Back to Agenda](#)

About this Property

Historic 1917 Building in
St. Louis, Missouri

13 Occupied Floors with
87 Tenant Occupied Units

Average Unit Income:
\$25,003

Occupant Average Per Unit:
1.6 People



Project Objectives

Urban - Multi-Family Income Eligible Property

01

Direct Install Measures

**** 87 UNITS ****

- Water Fixtures
- LED Bulbs
- Filter Whistles

02

Electrical Measures

** COMMON SPACE **

- LED Upgrades
 - Can Lights
 - A-19's
 - Lamp Fixtures
 - Exit Signs
 - Hallway Sconces
- Electrical Upgrades for HVAC Systems

03

Heating & Cooling Measures

**** BALLROOM ****

- 15 Ton Commercial All Electric Conversion
 - Design
 - Demolition
 - Dedication

Estimated Energy Efficiency Projections

DIRECT INSTALL MEASURES In Unit

Estimated Total Kw Savings:

32,200

LIGHTING UPGRADES- Common Area

Estimated Kw Savings:

302,728

HEATING & COOLING

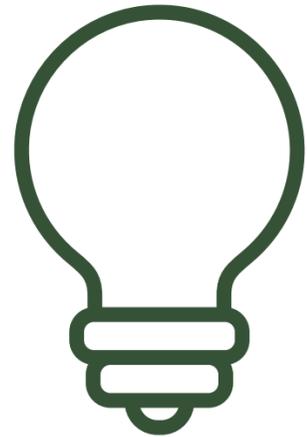
Estimated HVAC Kw Savings:

111,000

[Back to Agenda](#)



Project Challenges



01

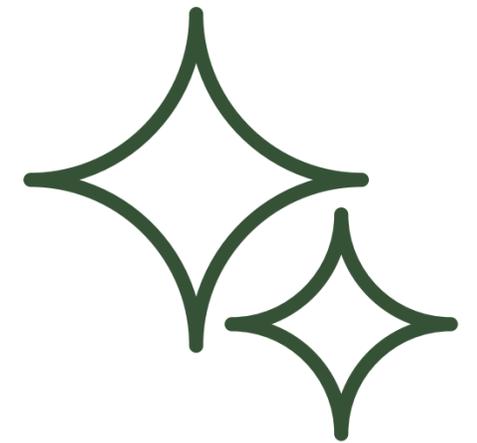
HVAC Design

- Historic Building
- Duct Work
- Energy Efficiency Requirements

02

Crane Coordination

- Location
- Building Height
- Property Management, Roofing, Electrical, HVAC Coordination



Carrier
Air Conditioning

Division of Carrier Corporation

Carrier

MFG. DATE 10-84

MODEL 40RR016030

SERIAL X496687

REFRIG. SYSTEM R-12/22/500

DESIGN / TEST PRESSURE GAGE

COMP	QTY	VOLTS AC	PH	HZ	RLA	LRA	LBS	kg	HIGH PSI	kPa
COMP							LBS	kg	LOW PSI	kPa
FAN MOTORS	QTY	VOLTS AC	PH	HZ	FLA				HP	kW OUT
OUTDOOR										
OUTDOOR										
INDOOR										
OTHER										
HEATERS										
POWER SUPPLY										
PERMISSIBLE VOLTAGE AT UNIT		VOLTS	PH	HZ	MIN	AMPS				
CONTROL POWER SUPPLY										
MIN CLEARANCE TO COMBUSTIBLE MATERIALS										
ELECTRIC HEATER IS INSTALLED										
TEST WITH EXTERNAL STATIC CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS										
MADE IN USA										

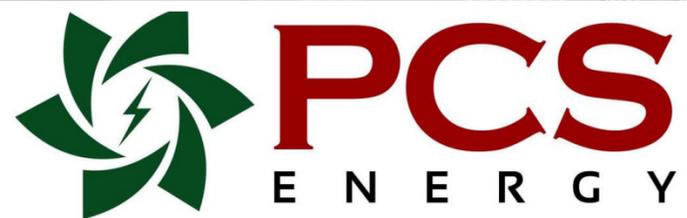
TOTAL NOT SUITABLE FOR OUTDOORS
MAX OVERCURRENT PROTECTIVE DEVICE AMPS

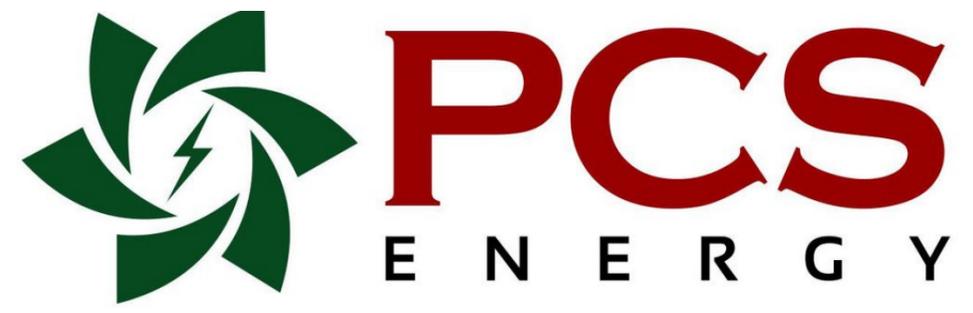
"CSA CERTIFIED WITHOUT ELECTRIC HEATING
CSA CERTIFIE SANS CHAUFFAGE ELECTRIQUE"
"CSA HAS NO STANDARD ESTABLISHED FOR
CSA CERTIFICATION OF FIELD INSTALLED
ELECTRIC HEATERS."
99NB500322 A



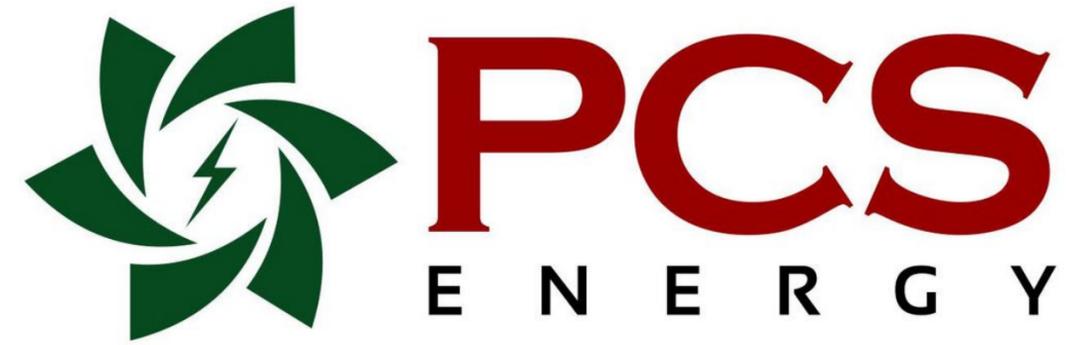


**Crane Coordination
Roofing & Platform
Copper Insulated Linesets
Electrical**





Show Me the Money



Savings

445,928.61 kWh

Annual Energy Savings

86.8190 kW

Annual Demand Savings

\$40,895.09

Estimated Annual Cost Savings

(assumes \$0.0768 or \$0.0959 blended rate)

Costs

\$249,610.30

Total Project Cost

\$211,296.91

Total Incentives

\$38,313.39

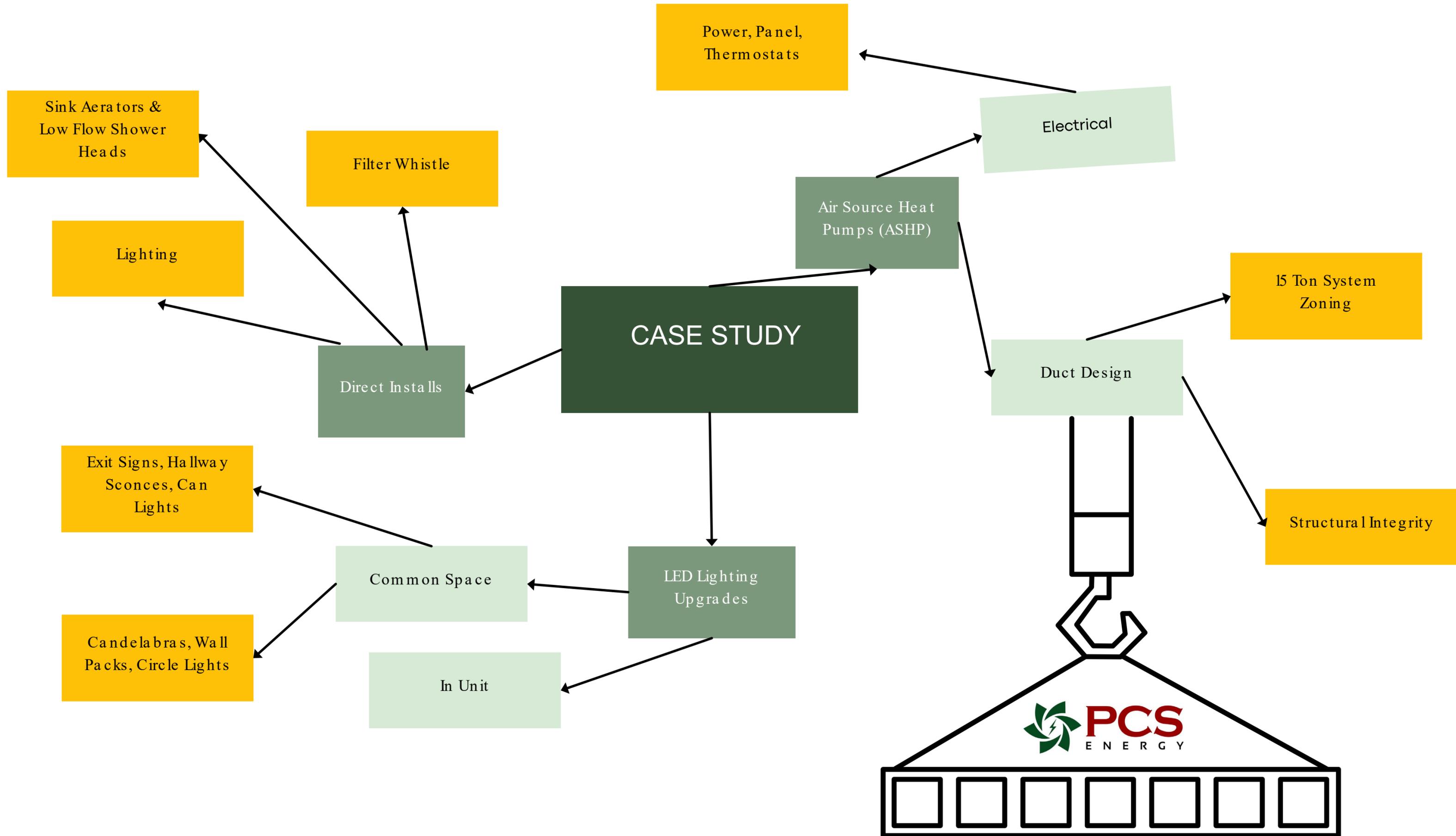
Total Cost to Customer

\$204,475.45

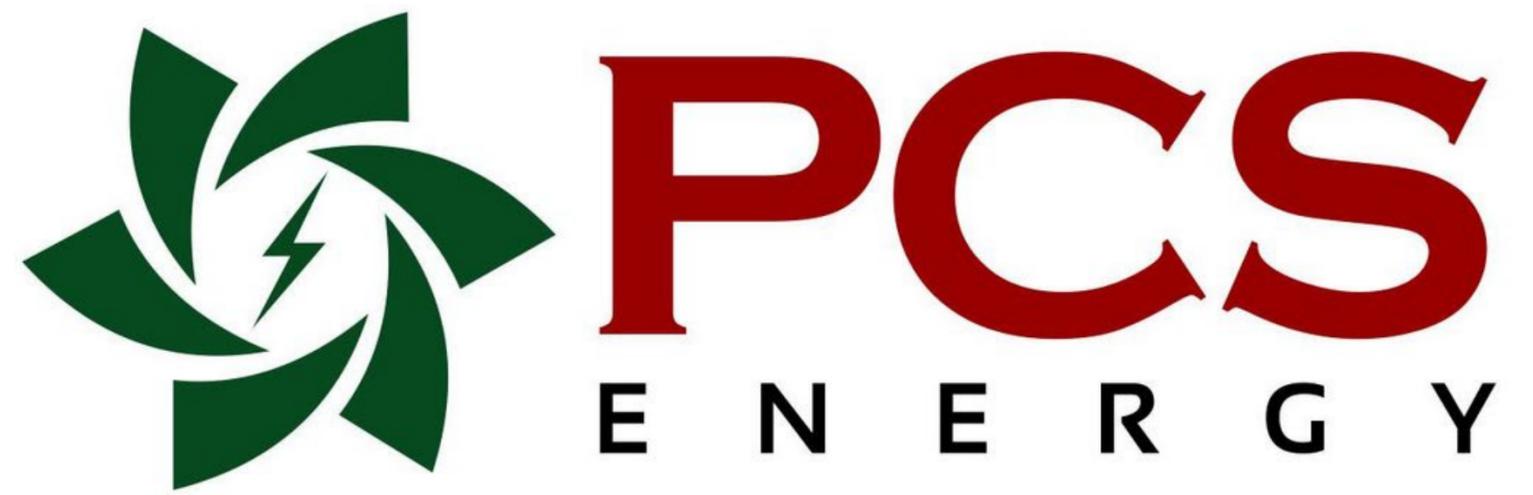
5-Year Cost of Doing Nothing

0 years

Payback Period



Get In Touch



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