

# Energy Efficiency Case Study: Casas Church, Tucson, Arizona, USA

## Organization Overview

Casas Church, a large community church in Tucson, Arizona, sought to improve energy efficiency and reduce operational costs in its HVAC system. With a commitment to sustainability and cost-effective facility management, the church explored innovative solutions to optimize power usage.



## Challenge

The church's HVAC chiller was running at 129 Amps with a 44 to 52% power factor, leading to inefficient energy consumption and excessive demand charges. This inefficiency resulted in higher utility costs and unnecessary strain on the electrical system.



## Solution

Casas Church installed a **TransPower Company Power Management Controls System** to optimize the chiller's performance.

This system dynamically adjusted power usage, reducing waste and improving overall efficiency. The installation and commissioning process was Seamless, ensuring minimal disruption to church operations.



## Results

The implementation of the **TransPower system** led to a **50% reduction in energy demand**. This improvement not only **lowered electricity costs** but also **enhanced the longevity** of HVAC components by reducing stress on the system.

Key Metrics			
Metric	Before Installation	After Installation	Improvement
Current Draw (Amps)	129A	<b>Reduced</b>	Optimized
Power Factor	44%	<b>Increased</b>	Enhanced Efficiency
Energy Demand	High	<b>50% Reduction</b>	Significant Savings

## Conclusion

By integrating the **TransPower Power Management Controls System**, Casas Church successfully enhanced its **energy efficiency, reduced costs, and improved power quality**. This project serves as a **model for other facilities** seeking smart energy solutions to optimize **HVAC performance**.

## Testimonial

*"The installation of the TransPower system significantly reduced energy demand, while ensuring efficient operation of our HVAC system."*

🎥 **Watch the Results:** <https://youtu.be/xqoC4raSJA0?si=zOkgtgAtFnGU71i->

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