



July 22<sup>nd</sup>, 2024

## **Quantum Technologies and iAIRE Collaboration: Reducing HVAC Energy Costs for a Global Manufacturer**

Quantum Technologies and iAIRE are excited to announce a successful collaboration with a global manufacturer to significantly reduce HVAC energy costs. Our partner, operating a vast 20+ million square foot facility in South Carolina, entrusted us with the opportunity to enhance one of their HVAC units with the innovative iAIRE Solar Assisted Energy Management System.

In this real-world application, we implemented our solar modification on one HVAC unit while monitoring the performance of an identical unit without the modification. This setup provided a direct comparison and generated robust data, showcasing the capabilities of iAIRE's solar solution.

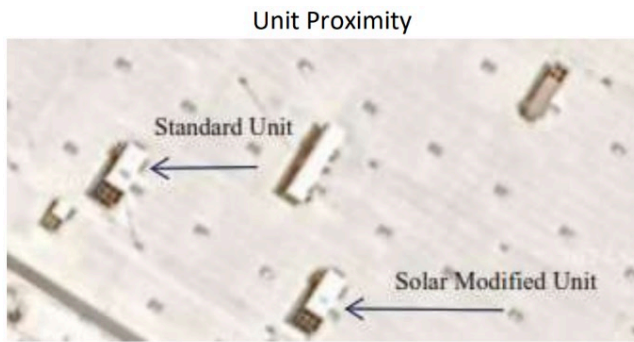
The installation was completed in January 2024, and performance data was recorded between June 23<sup>rd</sup> and July 20<sup>th</sup>, 2024. This period provided ideal conditions for evaluating the impact of the solar modification on non-heat pump units.

### **Key Results:**

- **kW Consumption Reduction: -16.9%**
- **Increased Capacity: +51.2%**
- **EER Improvement: +60.4%**

These results highlight the significant benefits of iAIRE's solar-assisted technology, demonstrating substantial energy savings, increased capacity, and improved energy efficiency.

We are proud to share the compelling results from this project, derived from 168,241 recorded cycles. These findings demonstrate the efficiency and effectiveness of iAIRE's solar-assisted technology in reducing energy consumption and costs.



If you're interested in implementing or using our cutting-edge solar technology for your next project, we would be delighted to assist you. Our innovative solutions have demonstrated significant energy savings, increased capacity, and improved efficiency, as shown in our recent case study.

To learn more about how iAIRE's Solar Assisted Energy Management System can benefit your facility, please contact us. Our team is ready to provide you with detailed insights and support tailored to your specific needs.

Reach out to us today and take the first step towards a more energy-efficient future!

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