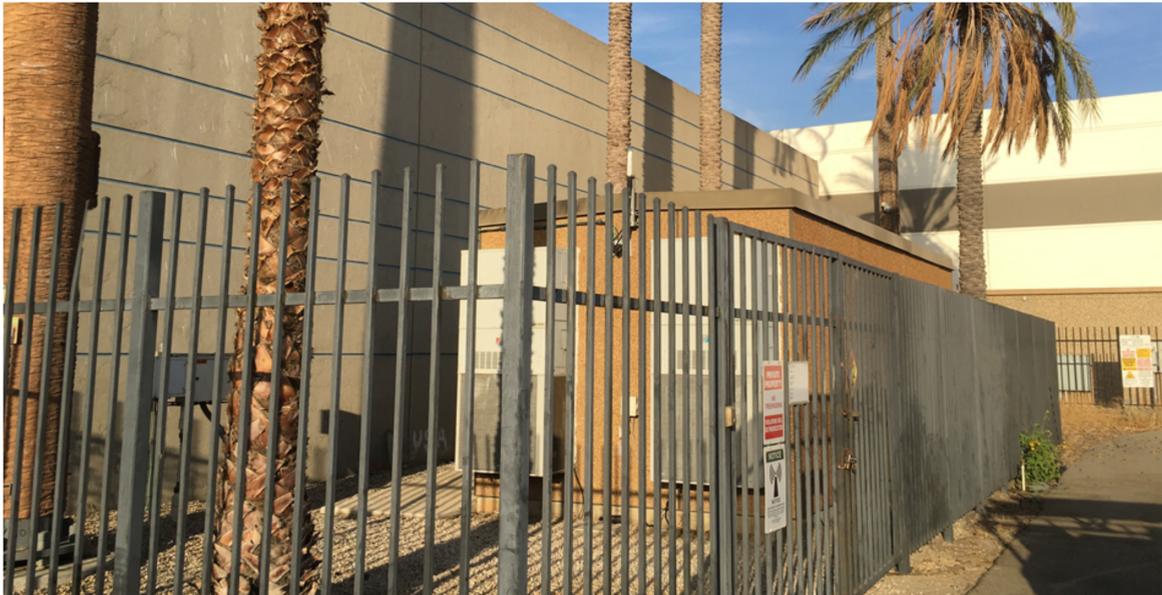


Telecom Tower Retrofit - Dallas, TX



Goal: Reduce energy consumption and heat build-up by absorbing thermal energy given off by electronics.

Application Overview

The goal of this project was to reduce energy usage inside telecommunication structures by wicking away the heat produced by the electronics inside the structure. The excess heat build-up was affecting the performance of the electronics which process thousands of mobile calls on a daily basis. By absorbing this heat, the structure would run significantly cooler, providing optimal thermal conditions for the electronics.

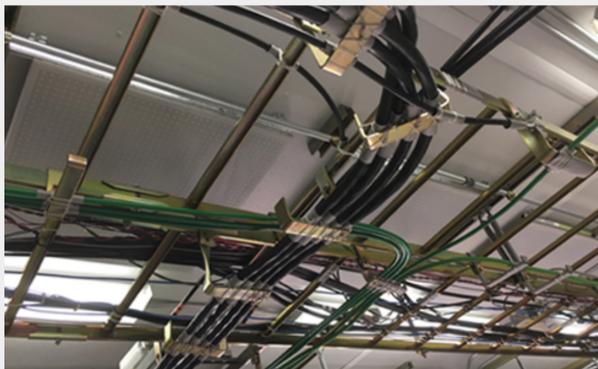
ENRG Blanket™ installed on the walls and overhead using ENRG Panels as a quick, easy means of applying phase change materials within the structure

1. The Project

The purpose of this project was to reduce energy consumption and the heat build-up from the electronic equipment inside the structure. Reducing heat generated by the processors inside the electronics can improve the reliability and performance of the computer controlled devices that process thousands of calls on a daily basis.

2. The Challenge

Our client needed an innovative solution that would allow phase change materials to be installed in telecom facilities to reduce the HVAC load and allow the existing HVAC equipment to adequately cool the electronic equipment in the space. A solution that could be easily installed on existing surfaces, in the limited space surrounding the electronics while not interrupting day-to-day operations and maintenance within the structure.



3. The Solution

Our easy-to-install ENRG Panel is the perfect solution for this customer's problem. ENRG Panel's unique track-like system can be installed on vertical and/or horizontal surfaces and provides a quick snap-in process for attaching ENRG Panels inside the structure. This system's design provides ample space for air-flow around the phase change material to absorb and release heat generated by the electronics, optimizing the buildings thermal performance.

4. The Results

Installation of ENRG Panel allowed the customer to keep the space temperature in the targeted temperature range for the electronic equipment while reducing the building's energy consumption. The customer realized base load energy savings and significant additional savings in the reduction of peak demand charges that were a huge drain on their annual energy budget. The ROI on this ENRG Panel project was less than one year.

To learn more or discuss your project, please call us at: **800-283-7887**
or e-mail us @ info@phasechange.com