

## Case Study



### Chase Bank- Fullerton, CA



#### APPLICATION OVERVIEW

The goal of this 2015 project was to reduce energy consumption and improve thermal comfort within the Fullerton, CA bank branch. The customer is dedicated to reducing their environmental impact and reducing their CO2 footprint while at the same time reducing their energy costs.

The customer wanted an energy conservation measure that could provide meaningful energy savings and a rapid ROI but insisted that its installation did not disrupt ongoing operations.

#### ENERGY SAVINGS-

**Expected ROI is less than 2.5 years** resulting from energy usage reductions of 29,000 kWh per year



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# ENRG Blanket™ installed above drop ceiling tiles in order to reduce energy consumption and improve thermal comfort

## 1. THE PROJECT

The purpose of this project was to reduce energy consumption and improve thermal comfort within the Fullerton bank branch. The customer is dedicated to reducing their environmental impact while reducing their energy costs. To reduce the energy usage from the HVAC system and to improve thermal comfort within the branch, ENRG Blanket® was installed above the existing drop ceilings.

## 2. THE CHALLENGE

The facility was built in the 1990s and complies with the code standards of that time frame. The building is insulated concrete masonry, single story unit which utilizes heat pump equipment for both heating and cooling. It is a retail branch outlet with a total of 3,180 gross sq. ft.

## 3. THE SOLUTION

After a site audit and an analysis of measurement and verification data a decision was made to install approximately 2,800 sq. ft. of Q23 / M27 ENRG Blanket® (23°C (73°F) melt temperature with 27 Btu per sq. ft.). The installation was done above the drop ceilings during one evening in less than 4 hours with no disruption to the commercial operations.

## 4. THE RESULTS

The impact of BioPCM on energy consumption on the facility was immediate with a 29% decrease in raw HVAC current consumption. After adjusting for the more severe post installation weather, we measured a 40% reduction in HVAC current consumption versus what would have occurred without BioPCM. The positive impact of BioPCM reduces energy consumption for both heating and cooling. These results were used in an energy model of the building in order to project the full year energy savings. This model projects that BioPCM will reduce HVAC energy consumption by 25% which equates 29,000 kWhs per year. The return on investment for BioPCM at this site is projected to be 2.5 years using a simple payback method.

## 5. TO LEARN MORE

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