



# COMMERCIAL OFFICE / FINANCIAL SERVICES INDUSTRY CASE STUDY

## FINANCIAL INSTITUTION - CALIFORNIA

This Financial Institution installed Insolcorp's PCM to numerous branch locations in California, primarily inland regions of San Bernadino and San Diego area. The goal was to reduce energy consumption and greenhouse gas emissions. PCM was installed over top of suspended ceiling tiles.

### Problem

Identify an energy saving technology that could help identify "Next Gen" savings at 3 to 4 year payback.

### Solution

Install Insolcorp's PCM mats over ceiling tiles, installed at night, approximately 3 to 5 hours per site.

### Results

- Approx **25% HVAC Energy savings** to date
- **18% Cooling Savings**
- **29% Heat Savings** (Gas Sites)
- On target to achieve project goals

The results were measured using four months of post-install data and comparing this post-install data using 24 months of utilities by comparing the PCM period with the average of each month in the previous two years. Data was also normalized for weather using heating and cooling degree days.

## 12 Locations

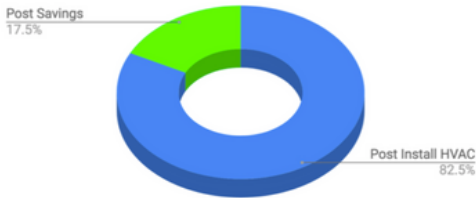
<b>AVERAGE LOCATION AREA:</b>	5,150sf
<b>INSTALL TYPE:</b>	Above Ceiling Tiles
<b>BASELINE:</b>	24 Months Utilities 2016/17
<b>PERFORMANCE:</b>	4 Months Post Install Utilities



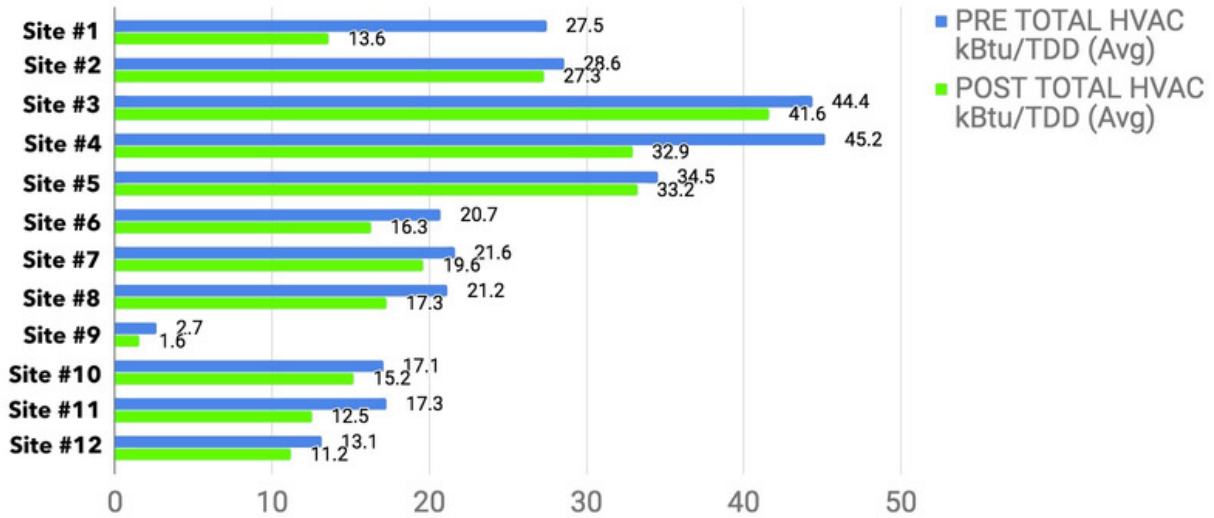
# COMMERCIAL OFFICE / FINANCIAL SERVICES INDUSTRY RESULTS

## 25% HVAC Savings - 18% Cooling - 29% Heating

COOLING HVAC Savings [kBtu/TDD]



When combining all estimated HVAC usage by month, a reduction of 18% in TOTAL HVAC energy (Gas & Electric for Heating, Cooling & Fans) was realized, normalized by total degree days

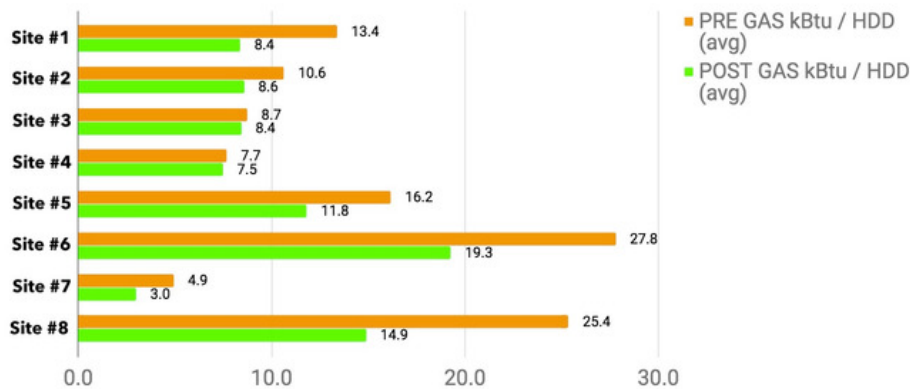


ALL ELECTRIC SITES Total kBtu's / Total Degree Day

Total GAS Savings [kBtu's / HDD]



By isolating only gas usage in heating periods, a total of 28% reduction in gas heating usage was achieved, helping boost the benefits of both cooling and heating savings.



GAS SITES - Gas kBtu's / Heat Degree Days

(800) 509-2199 [www.insolcorp.com](http://www.insolcorp.com)