
# CIRCLE K

Nationwide Locations

## HVAC CASE STUDY

Optimizing Energy Efficiency Across 900 Circle K Locations

**Owner**
Circle K

**Contract Type**
HVAC

**Contract Amount**
$10,000,000.00

**Electrical Contractor**
FSG

**Number of Sites**
900

**ROI**
2-4 Years

### CHALLENGE

Circle K needed a solution to reduce energy costs across nearly 900 locations spanning from California to Canada, and FSG delivered with the Energy Blanket. This innovative phase change material (PCM) solution, designed for installation above drop and framed ceilings, acts as a thermal battery—absorbing and releasing heat to maintain a more stable indoor climate. By reducing the frequency of HVAC cycling, the Energy Blanket significantly lowers heating and cooling energy consumption, delivering measurable savings in BTUs. With a projected ROI of 2 to 4 years, plus the added benefit of 30% accelerated depreciation incentives in the U.S. and Canada, Circle K is seeing substantial financial and sustainability gains.

### SOLUTION

The BioPCM Energy Blanket is built for longevity, offering over 100 years of thermal performance while meeting strict safety standards, including ASTM E84, UL 723, and CAN/ULC S102-10. Available in Class A, Class C, and Plenum-rated versions, it aligns with various building codes without compromising fire safety. Made from sustainably sourced plant-based byproducts, the blanket is 100% recyclable, reinforcing Circle K's commitment to environmentally responsible energy efficiency improvements.

### RESULT

FSG ensured a seamless installation process, coordinating teams to efficiently deploy the Energy Blankets without disrupting store operations. The flexible design allows for easy adjustments around lighting fixtures, ductwork, and wiring, ensuring that maintenance crews can still access ceiling infrastructure when needed. With this strategic energy upgrade, Circle K now benefits from improved thermal regulation, lower operational costs, and a sustainable approach to facility management—another example of how FSG delivers innovative solutions at scale.