

**Rising Sun High School  
Rising Sun, Indiana**



**Envocore Solutions:**

Install phase change material in the classrooms throughout Rising Sun High School.

**Drivers:**

The primary driver of this project was to save in energy costs. Phase change materials are used to store and release heat during the winter and to reduce heat build-up, peak loads, and air conditioning costs in summer.

**By The Numbers:**

- **Total Energy Saving:** 3,542 therms and 41,262 kWh
- **Total Cost Saving:** \$6,963
- 17,150 sq. ft. of phase change material installed

**Project Background:**

Phase change material products are built around a fundamental property of nature - the natural tendency of materials to absorb heat when they melt and to release heat when they solidify. When these phase change materials are installed into the building envelope, they naturally absorb heat during the day and release heat at night, providing heating and cooling savings with year-round comfort. After installation is complete, HVAC equipment cycles less, thereby providing significant energy savings that range between 15% to 30% of HVAC utility related costs.

After evaluating the Rising Sun High School, we recommended installing phase change blankets above the drop ceilings of classroom areas. This will not only provide energy savings to the school, but will provide a better level of comfort for classroom occupants as well.

**About the Customer/Location/City:**

Rising Sun High School is a public high school in Rising Sun, Indiana. It is part of Rising Sun-Ohio County Community Schools and is the only high school in Ohio County. The Rising Sun High School family of students, staff, parents, and community members strive to provide a safe, healthy, and orderly learning environment which challenges students to reach their maximum potential so that they may become productive members in our ever changing society.