# RETROFIT CASE STUDY

**Cambridge Space Heaters vs. Direct Fired Recirculation**
**Manufacturer- WV**

## Building Specifications

- 163,555 $ft^2$
- Building height - 24’
- Metal w/ 1” insulation in walls
- Metal w/ 3” insulation in roof
- Over 40 year old building
- Located in Fairmont, WV


## BEFORE

Direct Fired Recirculation

**Performance**

- Uneven temperatures
- High operating cost
- Cold dock areas
- High maintenance cost

**Operating Costs**

$0.96/$ft^2$ Gas cost @ $1.00/therm
$0.16/$ft^2$ Electric cost @ $0.08/kWh

**$1.12/$ft^2$ Total cost**

## AFTER

Cambridge Space Heaters

**Performance**

- More even temperatures
- Lower operating cost
- Warmer dock areas
- Lower maintenance cost

**Operating Costs**

$0.62/$ft^2$ Gas cost @ $1.00/therm
$0.03/$ft^2$ Electric cost @ $0.08/kWh

**$0.65/$ft^2$ Total cost** @ $1.00/therm

## SUMMARY

The Cambridge system used **42% less** total energy.

The Cambridge system saved approximately **$77,000/year** operating at $0.65$ft^2$ vs. $1.12/$ft^2$.

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