



FAST FOOD

# Energy Saver™ Pilot Test

## Chicken Shack - Warren

- 1 AC Unit & 1 Refrigeration
- 2 Energy Savers Installed
- 10 Day Data Collection



## Test Summary

1

At this locations, PG Engineers installed one Energy Saver™ AC unit on a 15 ton rooftop AC unit and 1 Energy Saver™ AR unit on an interior cooler

2

Engineers then ran the unit with the PlasmaGuard Energy Savers™ disabled to gather baseline data.

3

Engineers then enabled the PlasmaGuard Energy Savers™ and gathered data doing 1 day on, 1 day off for a total of 10 days.

## Site Challenges

- Makeup Air Concerns: Cooling is being lost due to design and placement of duct work. Additional insulation covering the rooftop duct work would allow cooling to reach the interior space. In addition, the duct work penetrations are causing massive losses of air. Lastly, the air curtain should be located inside the vent hood versus in front of it.
- During installation the cooler coils were covered in 1/2 in of corrosion, dirt and dust. While we cleaned these during our visit, these should be maintained every 2-3 months to avoid interruption in operation.

## AC Unit - Rooftop Unit

35% ENERGY SAVINGS

E-SAVER OFF

24.2 KWH

E-SAVER ON

15.8 KWH

0.94 mt / year CO<sub>2</sub> SAVINGS

## AR Unit - Cooler

20% ENERGY SAVINGS

E-SAVER OFF

12.8 KWH

E-SAVER ON

10.3 KWH

0.57 mt / year CO<sub>2</sub> SAVINGS