

# Uchiyama MFG America LLC

494 Arrington Bridge Rd, Goldsboro NC, 27530

Established 1898 – Cork Products

Manufacturing plants in Japan, USA, Portugal, Vietnam,  
China, and expanding to Mexico.

Sales Offices – Japan, USA, Germany, Thailand, China, India, Mexico, Paraguay

Manufacturer of automotive Gaskets, Hub Seals, and Anti-Lock Brake Components



# Environmental Steward

- Our Journey

- Opened in Goldsboro in 1996
- ISO 14001 certified in Oct 2003
- In 2013 - Full time Safety and Environment
- Certified to the 2015 standard in May 2017



# Unknowing Environmental Projects

## Old

- BUR
  - Countless Leaks
  - Hundreds of man hours
  - Equipment Downtime
  - Heating R-value 8.89
  - Cooling R-value 9.88

## New

- Thermo Plastic Polyolefin (TPO)
  - 2" Insulation
  - 20 Year warranty (minor MX)
  - No Equip Downtime
  - Heating R-Value 19.13
  - Cooling R-Value 21.32
  - Cost \$319K



# LED Lighting



## 400 W Metallic Halide Hi Bays

- 119 Hi bays & 64 8'Flourescent
- 55,792 KWH
- Office, bathrooms, Labs, Docks
- Parking lots and Wall Packs
- OCC Sensors

## 250 W LED Hi Bays

- 153 Hi bays
- 38,250 KWH
- \$158K and growing

# Compressed Air

## U-Configuration

## Loop Configuration

- Four Compressors
  - Available HP 215
  - 120 PSI down to 90 PSI
  - Loaded run time
    - 85-95% of operation time

- Four Compressors
  - Available HP 285
  - 95 PSI down to 78 PSI
  - Loaded run time
    - Regulated by controllers
- Project Cost \$95K



# Energy Reduction Benefits

## Prior to Implementation

FY2014 Annual KWH usage 9,321,400

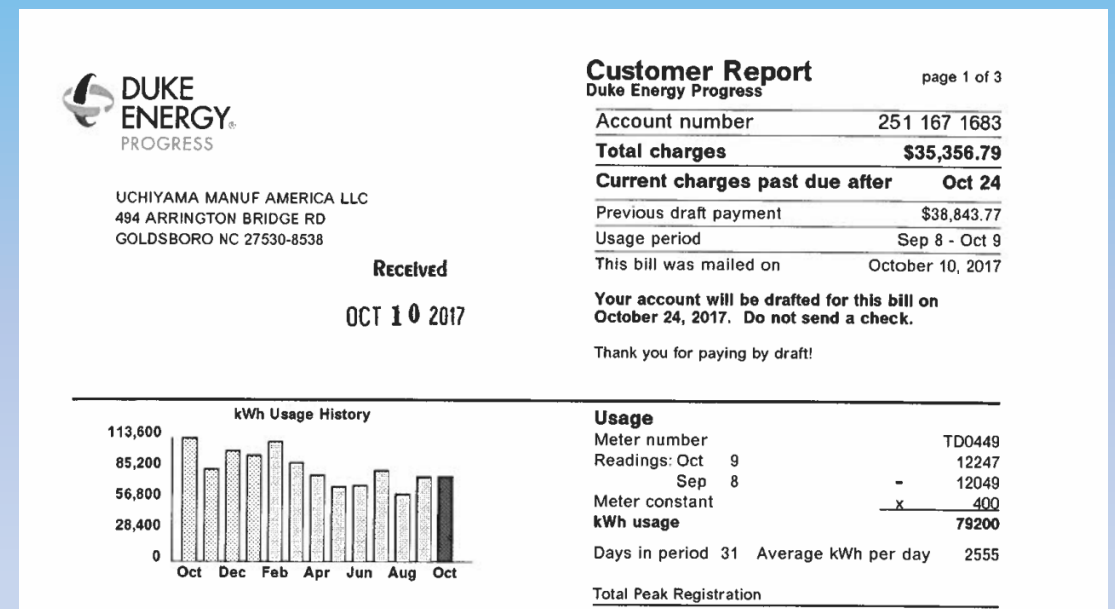
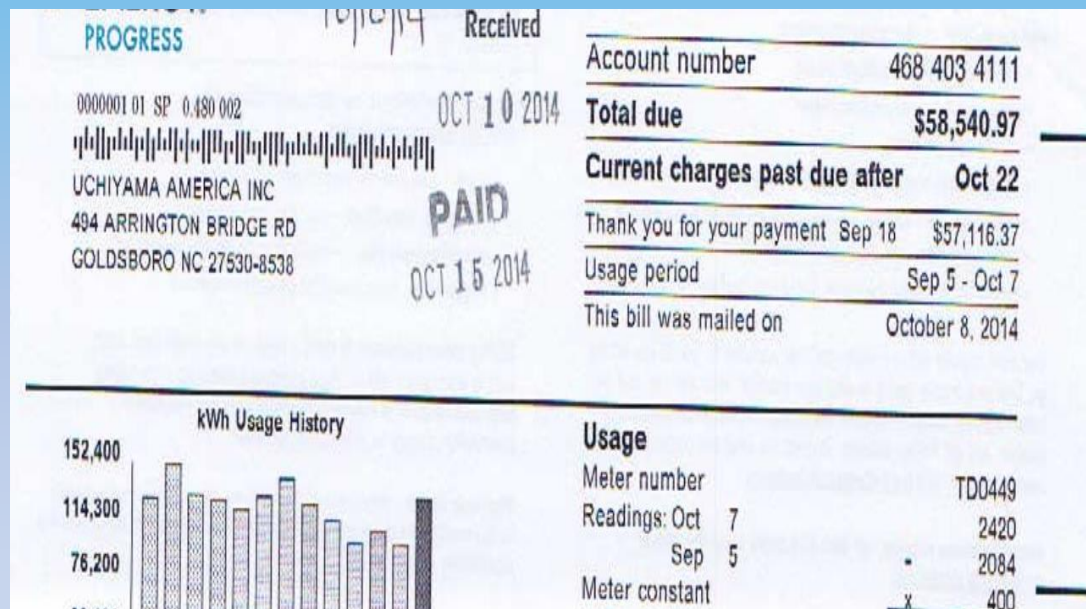
## Post Implementation

FY2017 Annual KWH Usage 6,005,600

36% reduction straightline

Normalized Data is 33% reduction

FY2018 currently at 14% reduction



# Reduce Rubber Waste

## Target

- Raw Material waste reduction by 50%
- 2015 \$14,612
- 2016 \$5,853
- 2016 Rubber to landfill 216.08 Tons

## Results

- Improved Efficiencies
  - Work Instructions
  - QA Checks
- 2017 \$13,988
- 2017 Rubber to landfill 130.37 Tons

# 2018 Goals and Beyond

VEO = 0



Energy Reduction > 2%

Reduce Rubber Waste

ZWTL by Dec 2022