



Allied Converters, Inc.

*Where “Sustainability”
isn’t a catchphrase.
It’s a mindset and a way of life.*



**Final Presentation
4/21/2015**

The Green Initiative

Facility Improvements

Employee Training

Energy Reduction

Recycling

Green Purchasing

Public Outreach

Facility Improvements

- **Commenced in 1999 with reconstruction of our New Rochelle facility**
- **Natural Lighting on factory floor and high efficiency building envelope**
- **Installation of high efficiency lighting**
- **High Efficiency Windows and ventilation**

A blue starburst logo with a bright white center, positioned to the left of the company name.

Allied Converters, Inc.



Employee Sustainability Training

- **Waste handling practices and the importance of segregation of waste streams**
- **Reporting leaking faucets**
- **Turning off lights when leaving unused areas**
- **Turning off equipment when not in use**
- **Purchasing from “Green” vendors**

Energy Reduction

- **Combined Heat and Power System (CHP) installed in 2002 (First Grid Connected Micro-Turbine System in Con Ed Service Area)**
- **50 KW Solar Array installed in 2007
First Commercial Solar Array in New Rochelle**
- **Reactive Power Mitigation and Power monitoring system installed in 2007**
- **First facility in NY State with grid connected solar and high efficiency generation (2009)**
- **Approximately 85% - 90% of Power is Generated On-Site
The 10% - 15% of utility power is Wind Generated**

Combined Heat and Power (CHP)

Achieves 75% energy efficiency
40% higher than utility purchased power



50 KW Solar Array



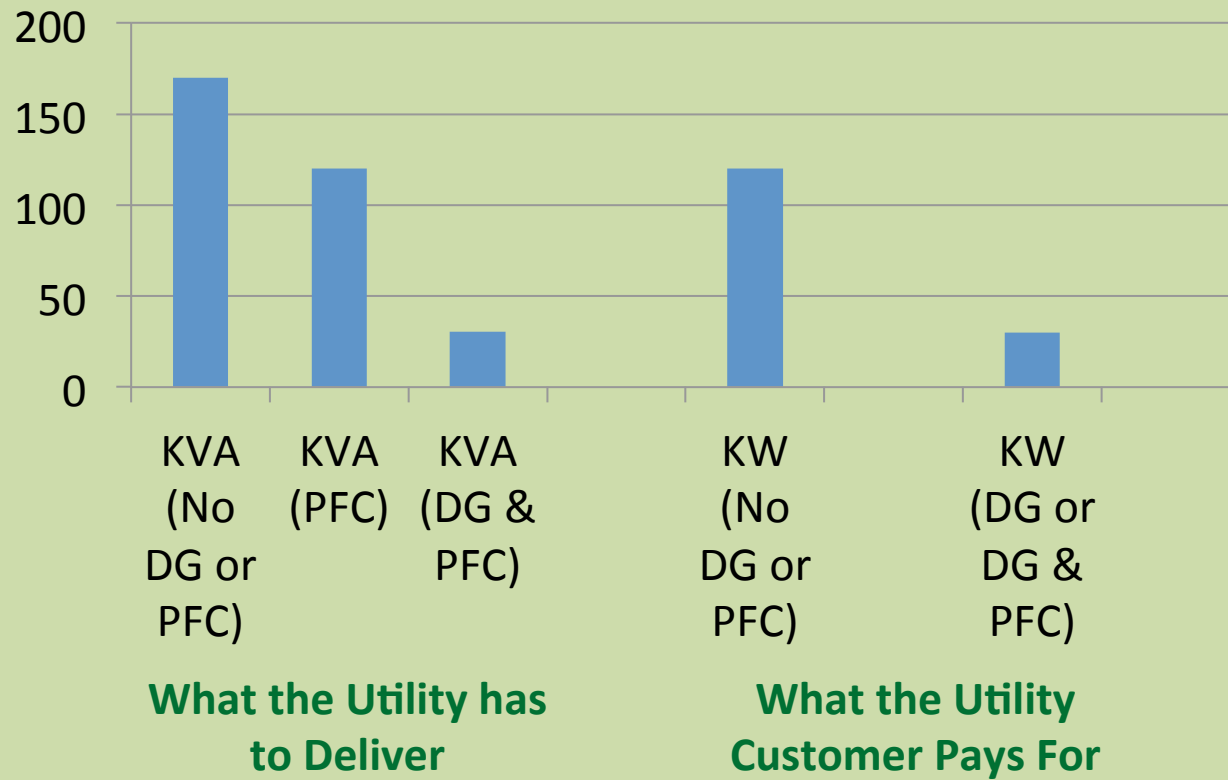
Power Monitoring and Reactive Power Mitigation System

Coupled with the CHP System and the Solar Array,
this results in a 80% decrease in Utility Load



Effects of Distributed Generation (DG) and Power Factor Correction (PFC) on Building Load

Comparative Utility Loads with and without DG and PFC





Recycling

Manufacturing byproducts & other materials are separated in up to 33 different waste streams

- **21 different types of plastic**
- **4 types of wood**
- **3 types of metal**
- **4 types of paper**
- **E-Waste**



Recycling

**100 % of Manufacturing
Byproducts and packaging
materials are recycled or
repurposed**

**Nothing is sent to a landfill !!
(or to Wheelabrator for burning*)**

**Office documents that are no
longer needed are shredded and
placed with the scrap paper**

* Wheelabrator operates the local garbage to energy plant in Westchester County

Green Purchasing

- **Since 2011, all paper products, soaps, and cleaners have been purchased from Greenline Paper and are environmentally friendly.**
- **All paper products used are composed entirely, or have a high percentage, of recycled material**
- **All lubricants used in our facility are food grade and are environmentally friendly**

Public Outreach & Consulting

Data from our facility and presentations based on that data have been provided, gratis, to the NY State Department of Public Services to assist with their efforts at enhancing the utility grid and reducing energy consumption

Assistance was provided to the City of New Rochelle for their GreenNR Initiative

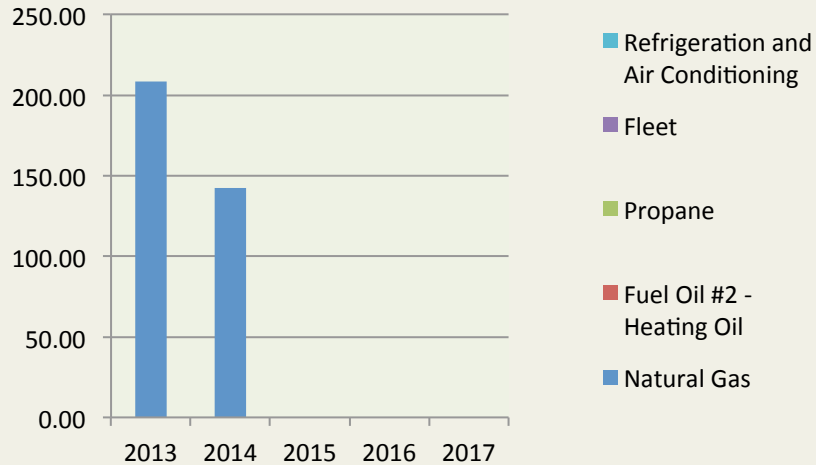
Research and Information have been provided to NYSERDA and Con Ed

Presentations have been done for Buildings-NY

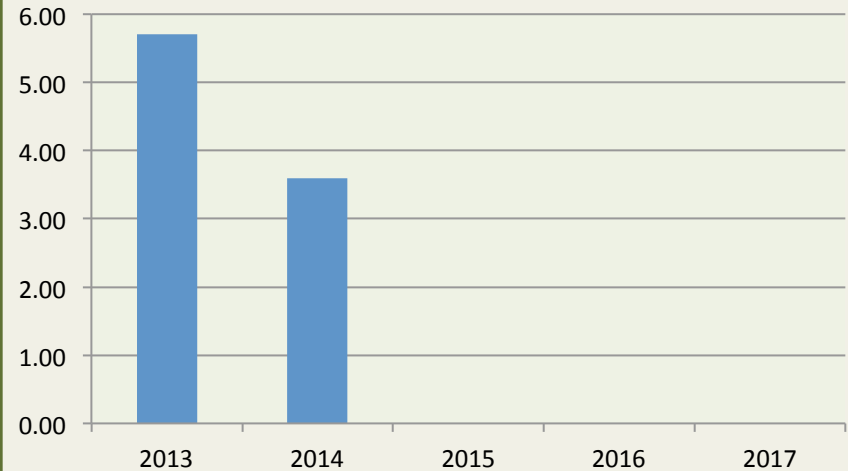
[Allied Converters Video](#)

GHG Emissions (Metric Tons)

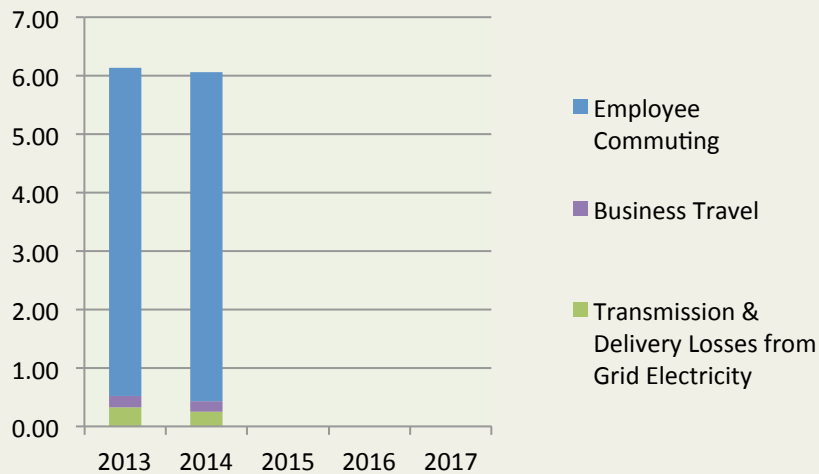
Direct GHG Emissions



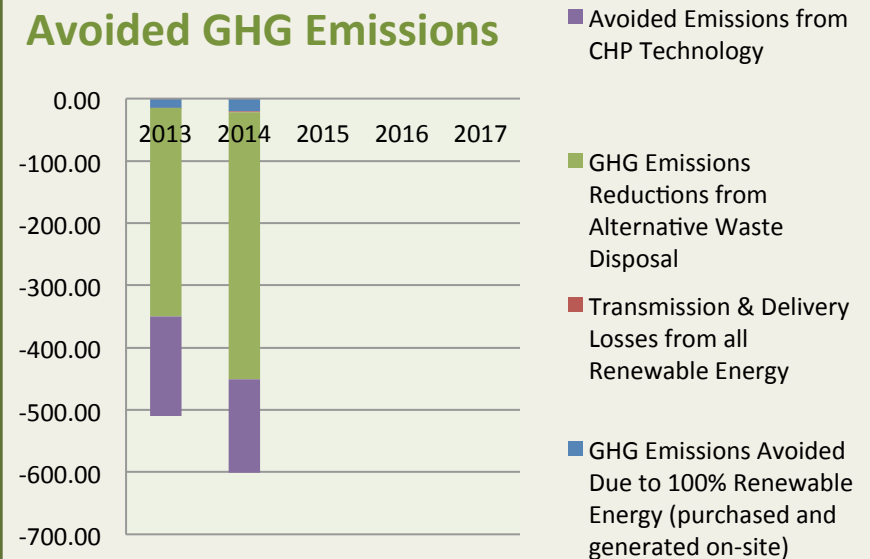
Indirect GHG Emissions-Electricity



Indirect GHG Emissions-Other



Avoided GHG Emissions



Financial Benefits of Sustainability

Facility Operates with a Total Energy cost of \$0.66 per square foot compared with \$ 2.75 per square foot for the average business in Westchester (2008 figure) 75% less

Sale of recyclables provides a large cash flow and avoids tens of thousands of dollars in tipping fees for waste disposal - Revenue offsets total facility energy costs

Many customers favor manufacturers that use sustainable practices - Good advertising