2017 Economic Development Through Energy Efficiency Conference

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Ply Gem WINDOWS
Agenda

• Ply Gem – Leader in the Industry
• History of Simonton Windows & Doors
• Energy Efficiency in the Production Facilities
  • Launched / In-process Projects
  • Future Projects
• Energy-efficient Products
Ply Gem Products **Lead the Industry**

#1 Vinyl Siding in North America.
#1 Aluminum Accessories in the U.S.
#1 Vinyl & Aluminum Windows in the U.S.
#3 Overall Windows in the U.S.
#1 Windows in Western Canada

SOURCE: INDUSTRY ASSOCIATIONS AND PUBLIC REPORTING
INDUSTRY LEADERSHIP

MANUFACTURED MORE THAN 7.5 BILLION SQ. FT. OF SIDING IN THE LAST DECADE.

THIRD LARGEST PROCURER OF PVC RESIN IN NORTH AMERICA.

140 MILLION LFT. OF METAL PRODUCED ANNUALLY WRAPS THE GLOBE.

SOCIAL MEDIA FOLLOWERS: 195,245
30 MILLION WINDOW UNITS SHIPPED OVER THE LAST 5 YEARS
TRUSTED PROVIDER OF RESOURCES TO MORE THAN 25,000 PROFESSIONALS NATIONWIDE

DELIVERING QUALITY AND VALUE WHEN & WHERE YOU NEED IT

#1 IN ALUMINUM ACCESSORIES IN THE US

2016 TRAINING
150 PRO COURSES
20,000 HOURS
4,000 PROFESSIONALS

HOUSEWORKX MOBILE TRAINING SHOWROOM
1 MILLION MILES TRAVELED

65+ LOCATIONS ACROSS NORTH AMERICA
DOING BUSINESS SINCE 1943

SOURCE: INDUSTRY ASSOCIATIONS AND PUBLIC REPORTING

#1 IN VINYL SIDING IN NORTH AMERICA
9,000 DEDICATED ASSOCIATES ACROSS NORTH AMERICA
#1 IN VINYL & ALUMINUM WINDOWS IN THE US
The Ply Gem Advantage

Working with an industry leader in building products makes good business sense.

PlyGem

We’re where you need us.

Maximize operations, save time and lower logistics costs through Ply Gem’s state-of-the-art manufacturing and supply network backed by 30 North American manufacturing locations, and 31 Canadian distribution centers.

Stable and efficient.

We are a publicly-traded company with over $1.9B in annual sales and one of the top procurers of PVC resins in North America. We are financially stable and committed to leveraging our purchasing power to drive cost savings.

It begins with our people.

Get support at every stage of the manufacturing life-cycle with products and services backed by Ply Gem’s dynamic and highly skilled workforce of 9,000 associates.

We’ve been through it all.

Serve your customers confidently with cutting-edge products backed by Ply Gem’s 75-year heritage in building products innovation and industry-leading warranties.

And we’re still growing.

You’re looking for the products and services for a new generation. So Ply Gem is continuing to create new products and services for our customers. As a result, we’re not only one of the largest in the industry -- we’re also one of the fastest growing.
History of Simonton Windows & Doors

- **1946**: Began Manufacturing Aluminum Windows and Doors
- **1980**: Changed Focus to Vinyl Products
- **1992**: 7-day Delivery Introduced
- **1995**: Increased National Footprint by adding Paris, IL and Vacaville, CA Facilities
- **1996**: ProFinish® New Construction Windows and Doors Introduced
- **2000**: The SimEx™ Vinyl Extrusion Facility Introduced to Support Simonton Products
- **2002**: StormBreaker Plus® Impact Resistant Windows and Doors Introduced
- **2010**: Decorum® Portfolio of Custom Style Options Introduced
- **2013**: Recognized for Award-Winning Quality Products and Customer Service
- **2014**: Acquired by Ply Gem®, an Industry-Leading Manufacturer of Home Building Products
- **2016**: INOVO® Premium Inovo® Sliding Patio Door Introduced by Simonton®
Another Leading Brand from Ply Gem Building Products

6 Facilities support Simonton branded windows and doors

• West Virginia Facilities
  • SimEx- (Extrusion Operation) St. Marys, WV
  • Window/Door manufacturing in Ritchie County: Pennsboro, WV; Ellenboro, WV and Harrisville, WV

• Additional Locations
  • Paris, IL
  • Vacaville, CA
Energy Efficiency Partnership with West Virginia University

- Dr. Gopola and his team performed energy audits within the facilities in WV
- Team recommendations have moved forward to become a viable project
Energy Efficiency Projects – Plant Lighting

- Plant Lighting Upgrade (Pennsboro, WV) Replaced 400W MH with T5 HO Fluorescence lights
  - Reduced Power consumption from 455 Watts to 270 Watts on each Fixture
  - Eliminate restrike time delay with power interruptions
  - Better uniform lighting throughout the facility

- In Process Plant Lighting Upgrade (Ellenboro, WV) Replaced 400W MH with LED High Bay Lighting
  - Converting lighting when MH light ballast fail
  - Reduced Power consumption from 455 Watts to 230 Watts each Fixture
  - Eliminate restrike time delay with power interruptions
  - Better uniform lighting throughout the facility
Energy Efficiency Projects – *Variable Frequency Drives*

- **Glass Tempering Oven – Air Handling Blowers Variable Frequency Drives**
  - Eliminate Dampers and control air quench speed with VFD controls
    - (2 250 HP Blowers)
Energy Efficiency Projects – Air Compressors

- Reduced Operation Pressures to 110 PSI (rule of thumb 2 PSI reduction save 1% Energy)
- Ellenboro Compressor systems Communicate to Trim as necessary
- Heat Recovery is utilized in the Pennsboro facility
- Added compressed air Storage tanks in Ellenboro and Pennsboro
- Upgraded air Piping to 4” Aluminum smooth wall
Energy Efficiency Projects – *Future State*

- Upgrade Air Compressor System with VFD units (SimEx)
- Considering Purchasing Compressed air as a utility to reduce capital cost
- Upgrade Plant lighting (High Bay LED) with occupancy sensor
- Develop air leak detection program
- Developing a Preventative Maintenance program using ultrasonic equipment
ENERGY STAR Partner Since 1999

• As an ENERGY STAR partner, Simonton is committed to meeting the strict criteria of the U.S. Environmental Protection Agency to help conserve energy and reduce heating and cooling costs for all of our customers.

• Simonton branded vinyl windows and doors can be ordered to meet ENERGY STAR® guidelines, for optimum energy efficiency and comfort wherever you live.
Benefits of ENERGY STAR Windows & Doors?

**Reduce Heating and Cooling Costs**
Purchasing ENERGY STAR windows and doors can help you save money on heating and cooling throughout the year.

**Interior Comfort**
ENERGY STAR windows can help create a consistent temperature throughout the house season after season.

**Reduce Your Carbon Footprint**
With ENERGY STAR qualified windows and doors, you will use less energy, which reduces greenhouse gas emissions from power plants.
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