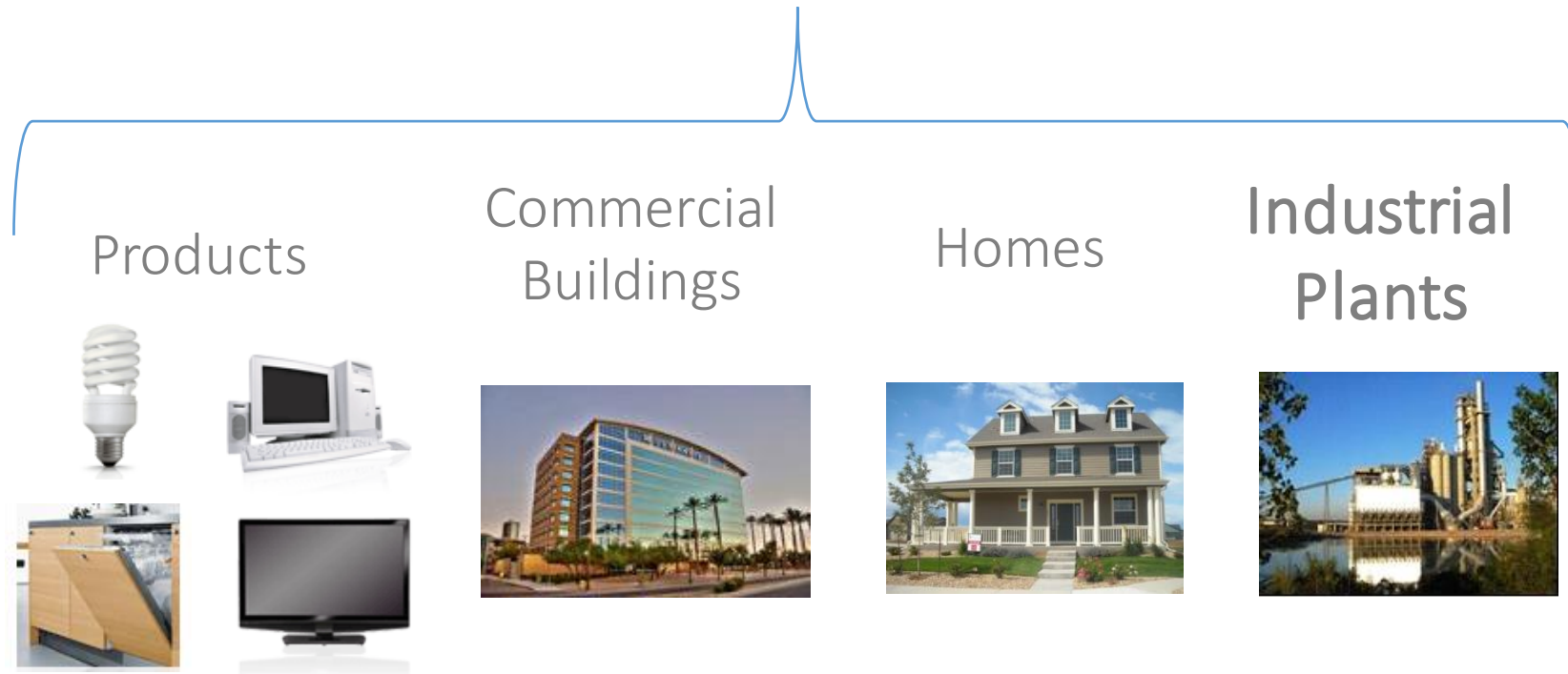




**U.S. EPA Region 3  
Air Protection Division  
Office of Air Partnership Programs**

AJ McCullough  
Danielle Algazi



Chris Bayne, Titan Roanoke Cement  
Energy Manager:

“Participation in the  
Energy Star program has  
provided important  
access to industry  
mentors and  
information..”





“The largest incentives are the cost savings and GHG goals”

-Chris Broome, Merck’s Energy Manager, on the benefits of utilizing ENERGY STAR programs.



# ENERGY STAR recognition





**10% reduction in energy intensity  
within 5 years or less.**



## Overview:

- Open to any manufacturing plant
- 10% reduction
- Based on a 12 month period
- Intensity metric (MMBTU/unit or MMBTU/sq ft) is determined by the plant
- No annual reporting
- Verification to apply for recognition



## Recognition Formats:

- Certificate
- Communications materials
- Profiled on [energystar.gov](http://energystar.gov)
- Letter to CEO from EPA
- Bragging rights





## Who's taking the Challenge?

- Taken the Challenge: over 1150 plants
- Achieved the Challenge: over 380 plants
- Taken the Challenge more than once: 150 plants
- Taken in over 50 countries

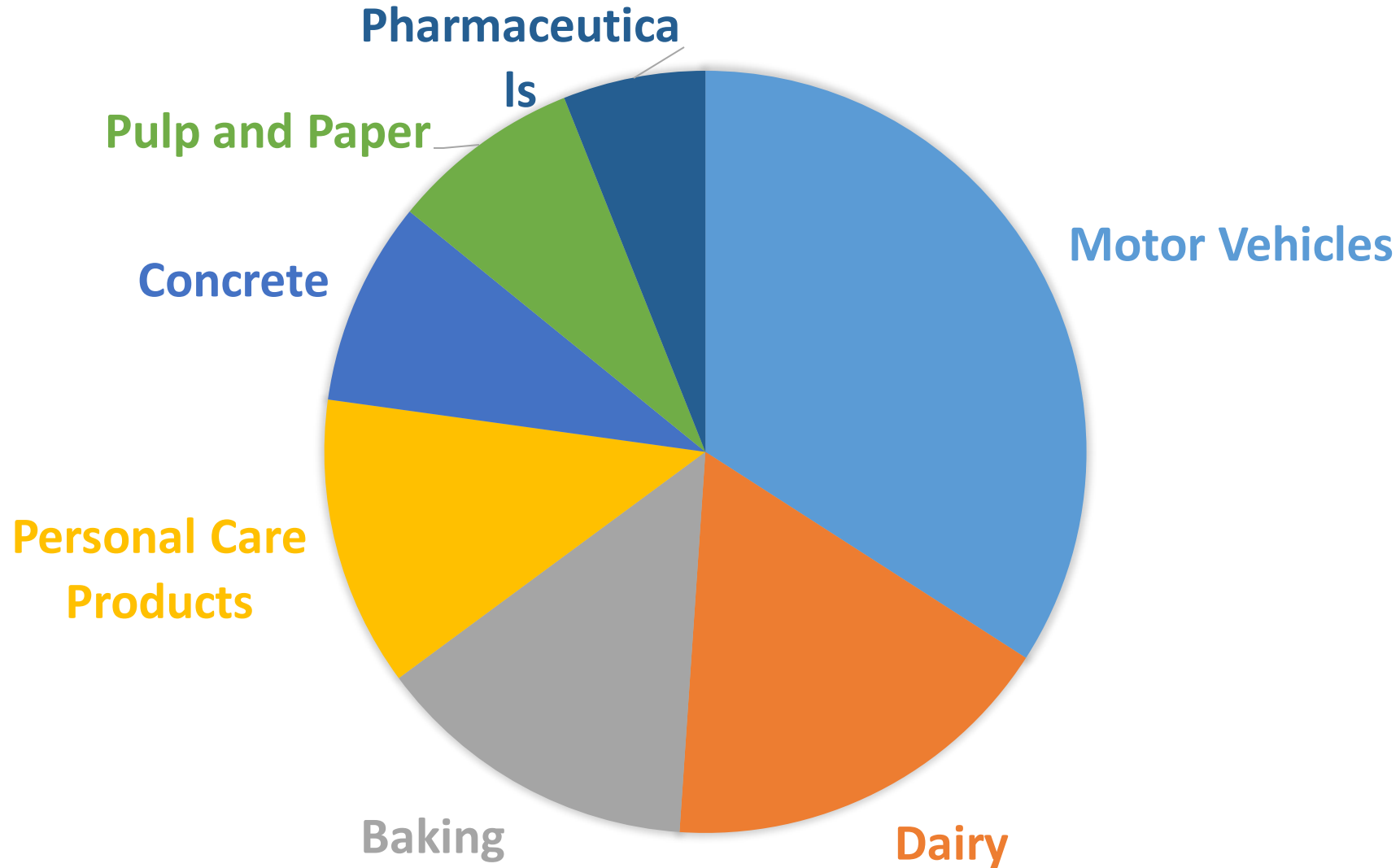


## Sector participation in the Challenge:

<b>Sector</b>	<b>Number of Achievers</b>	<b>Average Reduction</b>	<b>Average Time</b>
Motor Vehicles	144	23.2%	2 Years
Personal Care Products	44	17.8%	2.1 Years
Dairy	33	13.8%	1.5 Years
Pharmaceuticals	23	17.7%	1.7 Years
Textile	23	19.5%	3.1 Years
Food Processing	14	16%	1.3 Years
Concrete	21	22.3%	1.9 Years



# Sector participation in the Challenge:



# Participants in the Challenge:





## What are Achievers saving?

- **20%** in 1.9 years.
- Over **66 trillion BTUs**
- Energy savings by Achiever plants equals the total annual energy use of **370,000 households.**



Home Magazine Snack Products Bakery Products Ingredients Equipment Trends More Buyer's Guide

How can we drive your business "success?"

## HanesBras Recognitio

*Hanes plants i  
energy efficien*

March 24, 2016 10:3

WINSTON-SALEM  
manufacturing pla  
reducing energy

"The employe  
should be con  
success in rec  
protecting the  
Earlier this y

Home » Bimbo Bakeries USA completes EPA Energy Star Challenge

Operations Industry News

### Bimbo Bakeries USA completes EPA Energy Star Challenge



May 5, 2015

KEYWORDS bakery energy management / energy reduction / energy-efficient bakeries / EPA Energy Star Challenge Reprints

Bimbo Bakeries USA, Horsham, PA, recently completed the Environmental Protection Agency's Energy Star Challenge for Industry at six of its bakeries, with an average of 17 percent energy reduction per plant in the past year. In addition to these six bakeries, BBU's remaining plants are participating in the challenge, saving enough energy to power 330,350 households for a year. With a total of 59 facilities, BBU operates more than half of the bakeries currently participating in the Energy Star Challenge.

"BBU is committed to promoting energy efficiency, preventing pollution, protecting the

# Age for

cent

manufacturing facilities  
ENERGY STAR®  
by ranging from 10.8

Play Technologies,  
Optical Communications.

STAD Partner

Lightbox (0)



by replacing

for Industry



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

**Step 1: Identify an Energy Intensity Metric**

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition





## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

**Step 2: Select an Energy Tracking Method**

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

**Step 3: Set a baseline and a 10% improvement goal**

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

**Step 4: Create a formal site file and plan for tracking data**

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

**Step 5: Register for the Challenge**

Step 6: Track energy use and achieve the 10% reduction

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

**Step 6: Track energy use and achieve the 10% reduction**

Step 7: Verify energy savings and apply for recognition



## Challenge for Industry process

Step 1: Identify an Energy Intensity Metric

Step 2: Select an Energy Tracking Method

Step 3: Set a baseline and a 10% improvement goal

Step 4: Create a formal site file and plan for tracking data

Step 5: Register for the Challenge

Step 6: Track energy use and achieve the 10% reduction

**Step 7: Verify energy savings and apply for recognition**



# Key Documents:

## Participant Handbook

- Discusses how to take the Challenge

## Professional Engineer Guide

- Instruction for verifying energy savings

## Recognition application instructions

## Recognition application form

### ENERGY STAR® Challenge for Industry Recognition Application

OMB Control Number 2060-0347

As the energy manager for my company and/or site, I am writing to nominate the following site for recognition for achieving the ENERGY STAR Challenge for Industry.

I affirm that this site meets the conditions necessary to qualify for the ENERGY STAR Challenge for Industry recognition by achieving a 10% reduction in energy intensity within 5 years of establishing a baseline.

I have personally examined and am familiar with the information contained in the Statement of Energy Improvement. The information is based on reasonable inquiry and is, to the best of my knowledge, true, accurate, and complete. I have no reason to believe the site would not meet all EPA program requirements for receiving the ENERGY STAR Challenge for Industry recognition.

I understand the U.S. Environmental Protection Agency reserves the right to request and review any records which support the data used to calculate the energy intensity reduction for this site. I also certify that I am maintaining a file on this site in accordance with the ENERGY STAR Challenge for Industry data management requirements. Furthermore, I agree to associate the achievement of the ENERGY STAR Challenge for Industry only with the aforementioned site and to adhere to the ENERGY STAR Identity Guidelines.

IMPORTANT: Upon completing this online application form, you must submit the site's signed Statement of Energy Improvement to Rebecca Hindin via email at [hindin.rebecca@epa.gov](mailto:hindin.rebecca@epa.gov) to complete the application process.

\* Required

I agree with all statements made above. \*

Yes

[www.energystar.gov/industrychallenge](http://www.energystar.gov/industrychallenge)



# Register for the Challenge

Sign-up online at:  
[www.energystar.gov/industrychallenge](http://www.energystar.gov/industrychallenge)

Print the form for your records

OR

For multiple, plants use our  
“Bulk registration form”

## ENERGY STAR® Challenge for Industry Registration Form

OMB Control Number 2060-0347

Please complete this form to take the ENERGY STAR Challenge for Industry by pledging to improve the energy efficiency of your manufacturing site by 10 percent within 5 years from your baseline year. For information on requirements, supporting tools, and recognition, please visit [www.energystar.gov/industrychallenge](http://www.energystar.gov/industrychallenge).

\* Required

### Site Information

Company Name \*

Site Name \*

Site Address \*





# The Challenge Recap

- Today we have presented you with
  - ✓ Free program
  - ✓ Free resources
  - ✓ No penalties
  - ✓ Possibility for recognition & cost savings
  - ✓ Opportunity to *further* develop energy efficiency programs that help Delawareans use less energy and save money

## U.S. EPA Region 3

AJ McCullough

[Mccullough.Amanda@epa.gov](mailto:Mccullough.Amanda@epa.gov)

215-814-2093

Danielle Algazi

[Algazi.danielle@epa.gov](mailto:Algazi.danielle@epa.gov)

215-814-2722

