



“Energy efficiency is a part of our DNA”



Leveraging ENERGY STAR Resources to Build a Culture of Energy Efficiency at Intertape Polymer Group

Presented by
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mbjones@itape.com

2014 DEQ Environmental Excellence Conference
Richmond, VA

Track 2: Energy Efficiency
Wednesday, March 12
9:30 AM to 10:45 AM



IPG Profile



Summary	
Rank	2 nd largest tape manufacturer in North America
Founded	1981
Headquarters	Bradenton, FL
Employees	2,000
Facilities	10 manufacturing locations in North America, 1 in Europe
Ownership	Publicly traded Toronto Stock Exchange – Symbol ITP
Revenue	\$700M+





IPG at a Glance - Channels

Industrial Packaging



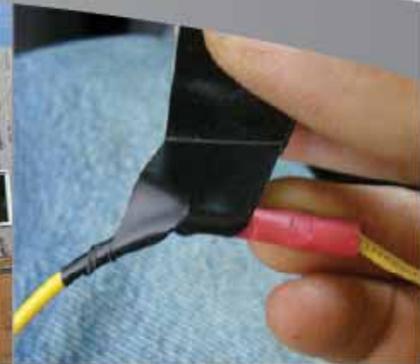
Consumer



Building & Construction



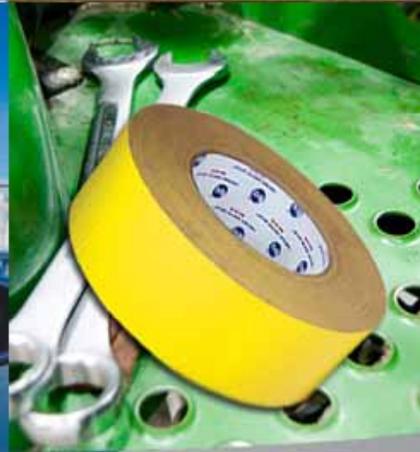
Electrical



Automotive Aftermarket



Aerospace



Industrial MRO



Coated Products



Corporate Identity & Family of Brands



Carton Sealing Tape

CENTRAL
brand

Intertape
brand

Industrial Tapes

Intertape
brand

Stretch Film

SuperFLEX
High Performance Stretch Wrap

StretchFLEX
Stretch Wrap

Shrink Film

Exlfilm plus
Performance Shrink Film

Exlfilm
Shrink Film

Machinery

INTERPACK
PACKAGING SYSTEMS

Protective Packaging

icUSHION
Brand Protective Packaging

PE Display Film

CLARITY
DISPLAY FILM

Auto Aftermarket

AMERICAN
An Intertape Polymer Group Brand

Stencil

Stencil Products
ANCHOR
An Intertape Polymer Group Brand

ECP

NovaSeal
brand
NovaShield
brand
NovaWrap
brand
NovaThene
brand
NovaPac
brand



Our Locations



Porto, Portugal

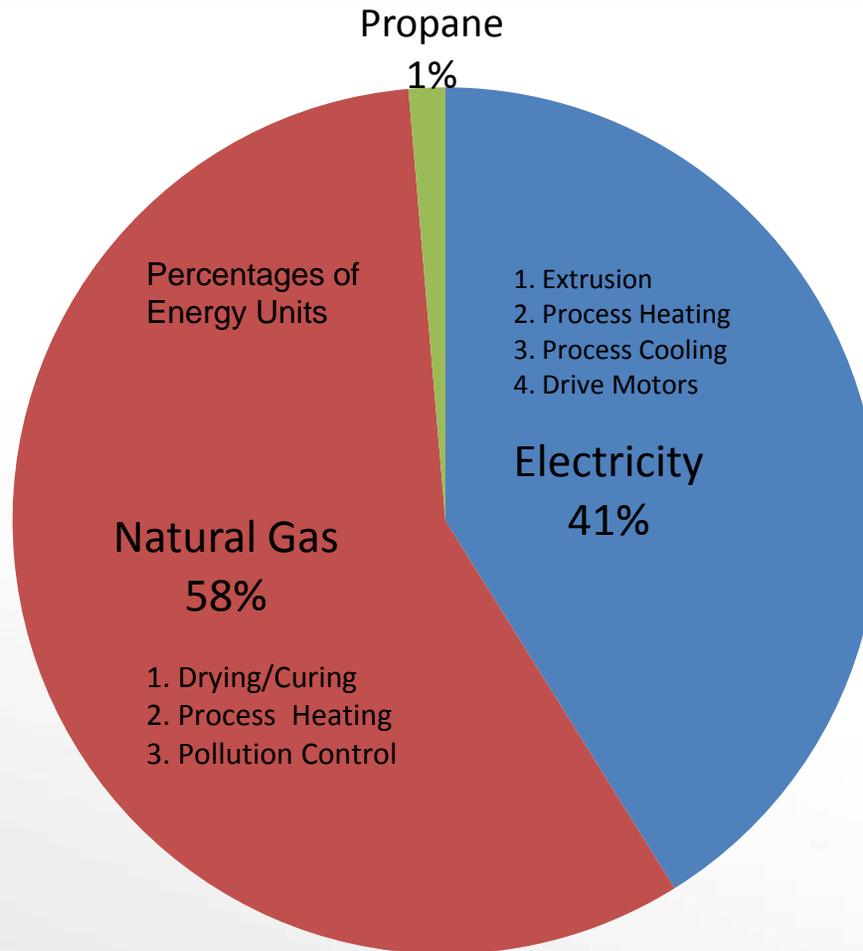


Flensburg, Germany





IPG Energy Usage Profile





Energy Star Tools used by IPG



- **Guidelines for Energy Management**
- **Energy Program Assessment Matrix**
- **Facility Energy Assessment Matrix**
- **ENERGY STAR Posters**
- **ENERGY STAR Web Banners**
- **ENERGY STAR Challenge**
- **Partner Networking Web Conferences**
- **Energy Treasure Hunt Guide**

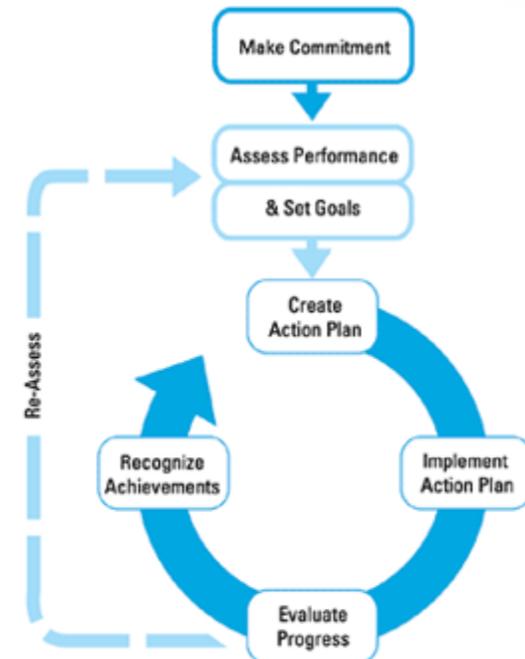


Energy Star Guidelines used by IPG



“Energy efficiency is a part of our DNA”

- **STEP 1: Make Commitment**
- **STEP 2: Assess Performance**
- **STEP 3: Set Goals**
- **STEP 4: Create Action Plan**
- **STEP 5: Implement Action Plan**
- **STEP 6: Evaluate Progress**
- **STEP 7: Recognize Achievements**





STEP 1.3 Institute an Energy Policy

Energy Policy

Intertape Polymer Group

Mission

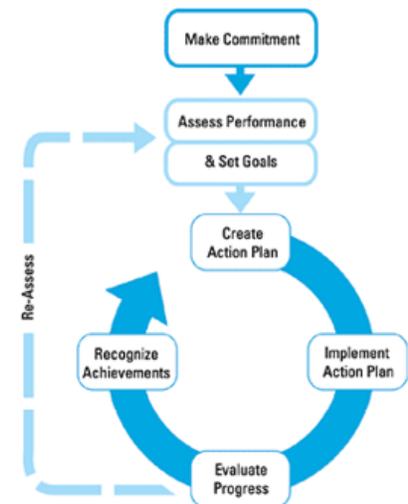
The objective of this policy is to provide guidance to employees concerning the efficiency of Intertape Polymer Corporation's operations. IPG is committed to operating its facilities in an efficient, environmentally responsible, and safe manner. Our goal is to reduce energy intensity by 10 percent within 5 years. We will achieve this goal by implementing continuous improvement programs and employee training initiatives across the entire organization. The Corporate Utilities Team has the role of measuring progress towards achieving the energy efficiency goal, identifying energy efficiency projects, and providing a forum for identifying best practices. It is the responsibility of every employee to be highly involved in reducing energy usage. Through the awareness, commitment, and capability of our employees, IPG will achieve success and surpass our energy efficiency goals.

Applicability

This policy shall apply to all Intertape facilities, business units, and employees.

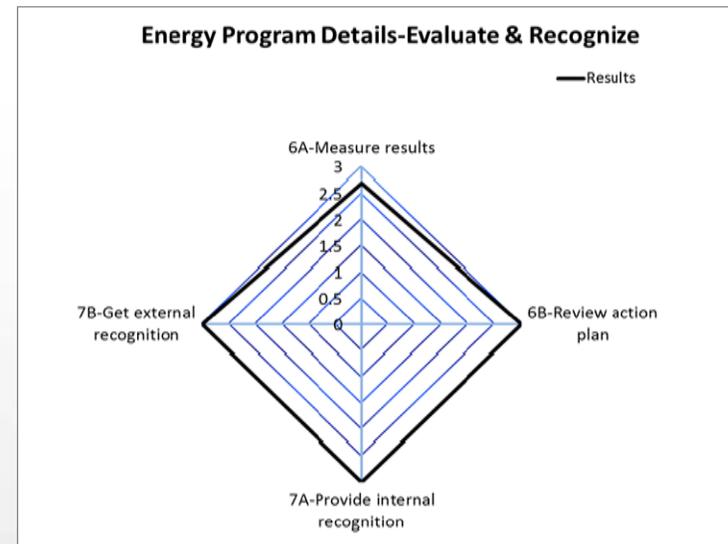
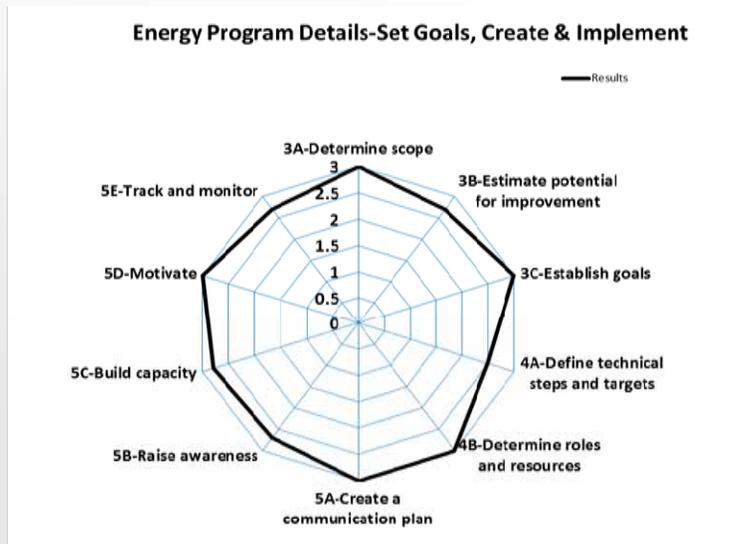
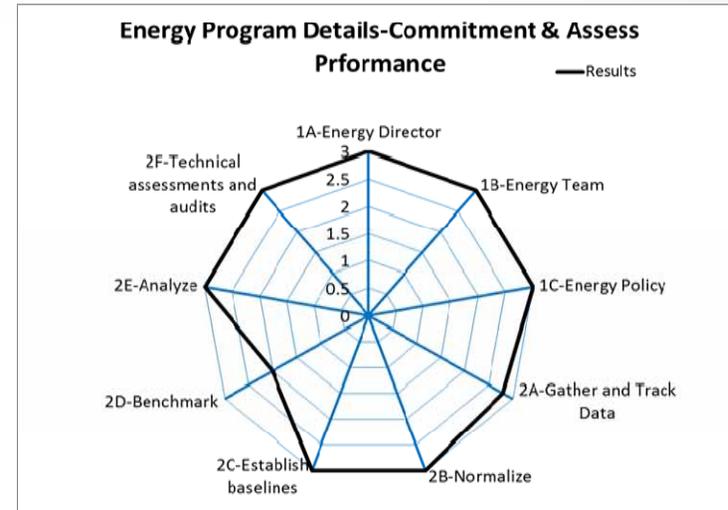
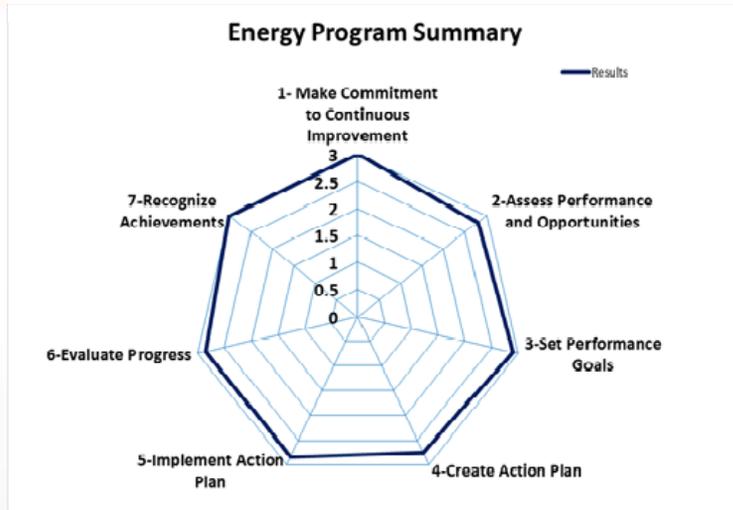
Approval

Doug Nalette, SVP Operations





Energy Management Assessment Matrix – Spider Diagram





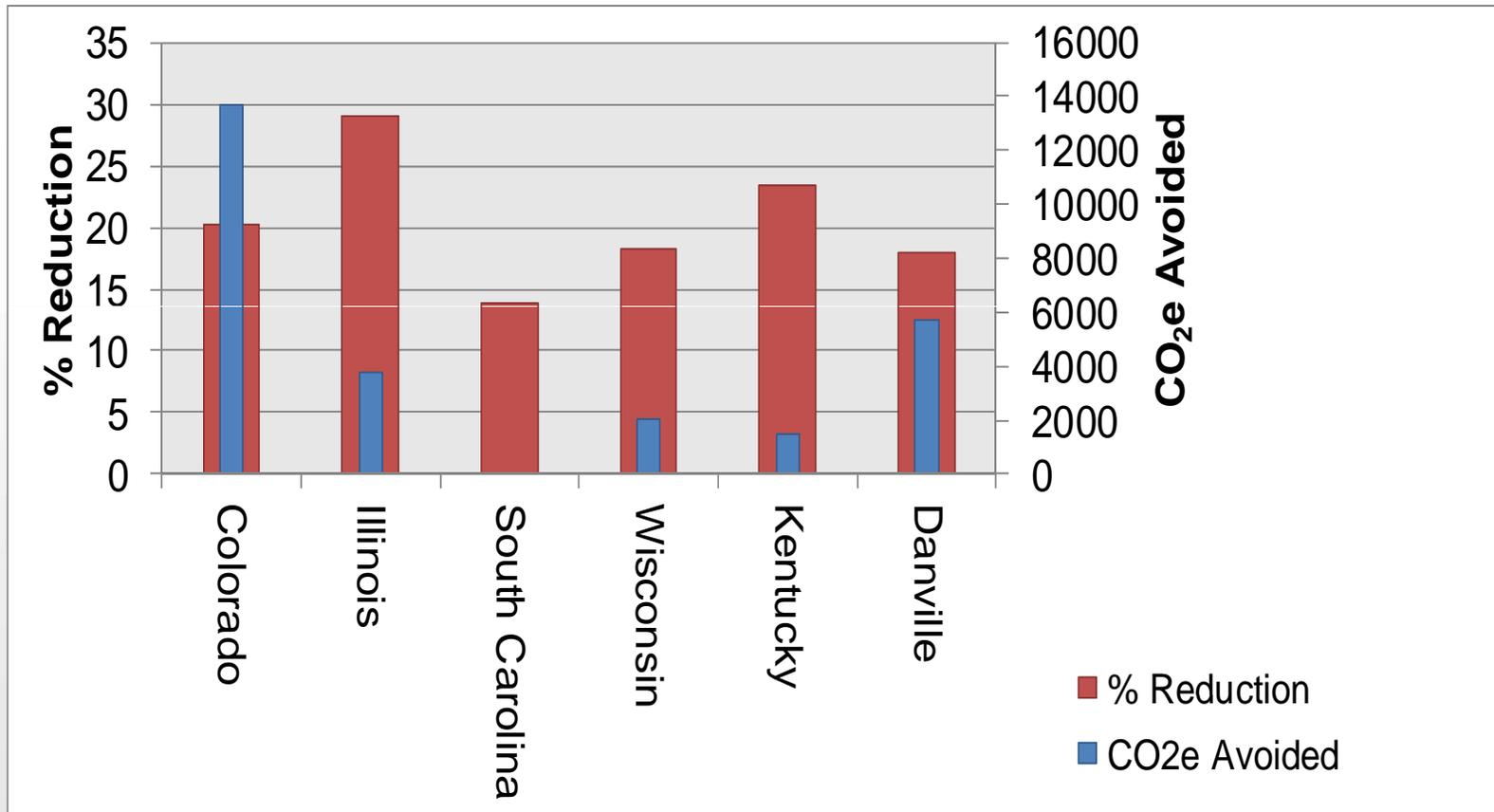
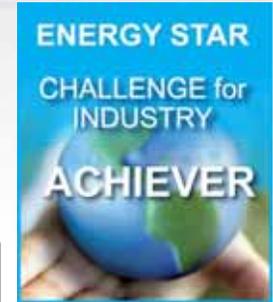
Facility Energy Assessment Matrix



	PLT1	PLT2	PLT3	PLT4	PLT5	PLT6	PLT7	PLT8	PLT9	AVG
Commit to Continuous Improvement										
Site Energy Leader										
Site Energy Champion										
Site Energy Team										
Energy Policy										
Site Energy Plan										
Accountability										
Participation Levels										
Assess Performance and Opportunities										
Track & Analyze Data										
Documentation										
Benchmarking										
Technical Assessments										
Best Practices										
Set Performance Goals										
Goals/Potential										
Career Development										
Energy Team Incentives										
Create Action Plan										
Improvement Planning										
Roles and Resources										
Site Planning Integration										
Implement Action Plan										
Communication Plan										
Energy Awareness										
Building Staff Capacity										
Contract Management										
Incentives and Rebates										
Evaluate Progress										
Measuring Results										
Reviewing Action Plan										
Recognize Achievements										
Site Recognition										
Organizational Recognition										
External Recognition										
Total Score										
Average Score										
PY Score										
% Improvement										

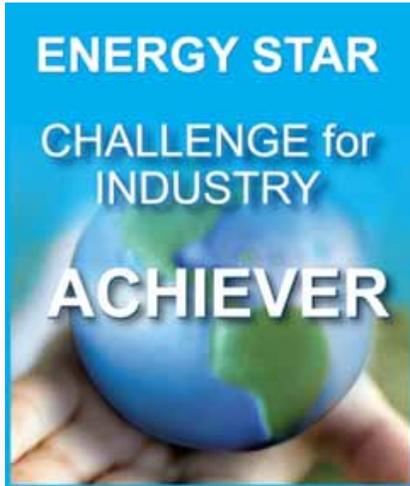


IPG Energy Intensity Reduction





ENERGY STAR Challenge for Danville





Engaging Employees

WIN THE RACE FOR ENERGY EFFICIENCY!



ipg

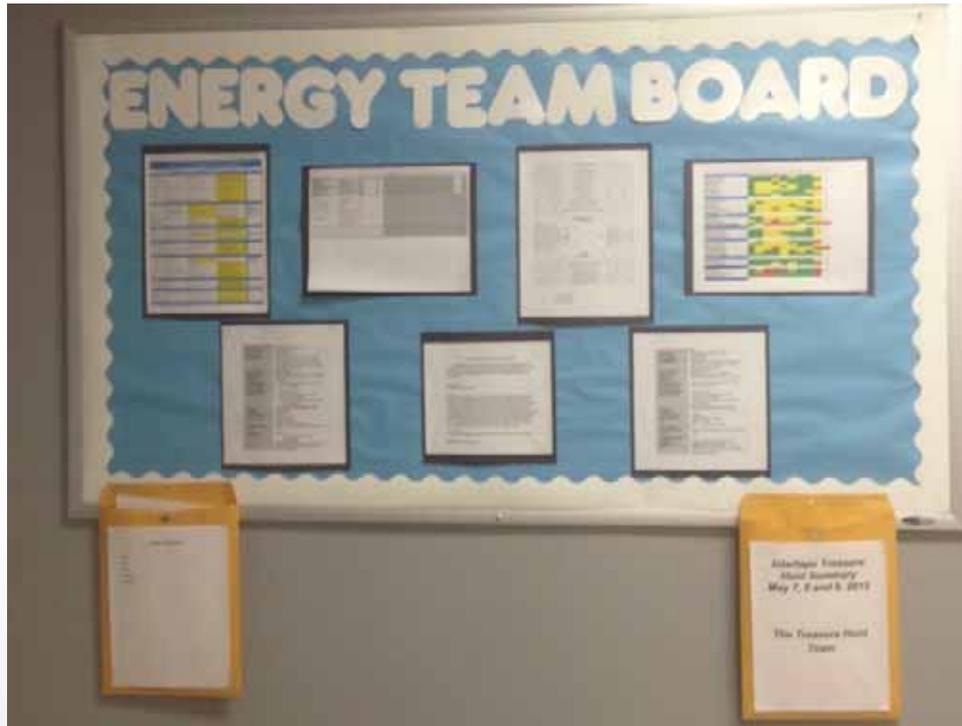
IPG® products are helping the world contribute to their ENERGY STAR® and green building goals!

We offer:

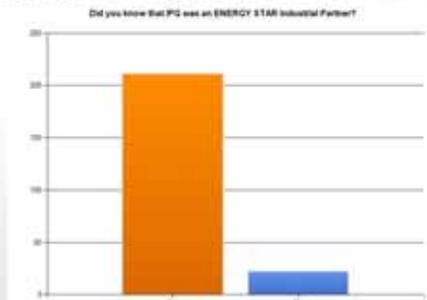
- Building wraps, roof underlayments, and flashing tapes to increase energy efficiency, air quality, and reduce mold growth in homes.
- HVAC tapes to create airtight seals around ductwork, saving energy and minimizing or eliminating air loss.
- And much more!

TAPES & FILMS • PACKAGING PRODUCTS & SYSTEMS
HOLDING MATERIALS • ENGINEERED COATED PRODUCTS

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Employee Engagement Survey





Southside Plant Performance Process

- **Energy Management Guidance**
 - April 30th meeting
 - May – August Follow-up web conferences
- **Energy Treasure Hunt**
 - May 7-9 Observe ITP Treasure Hunt
 - May 10 Energy Treasure Hunt training
 - May – August Follow-up web conferences
- **Sign-up for the ENERGY STAR Challenge for Industry**
 - Before conducting Energy Treasure Hunt
- **Conduct an Energy Treasure Hunt**
 - Identify energy savings opportunities.
- **Implementing energy savings opportunities**
- **Participate in Danville Energy Manager Roundtable**
- **Build an energy program spanning the company**
- **Post Energy Treasure Hunt Debriefs**



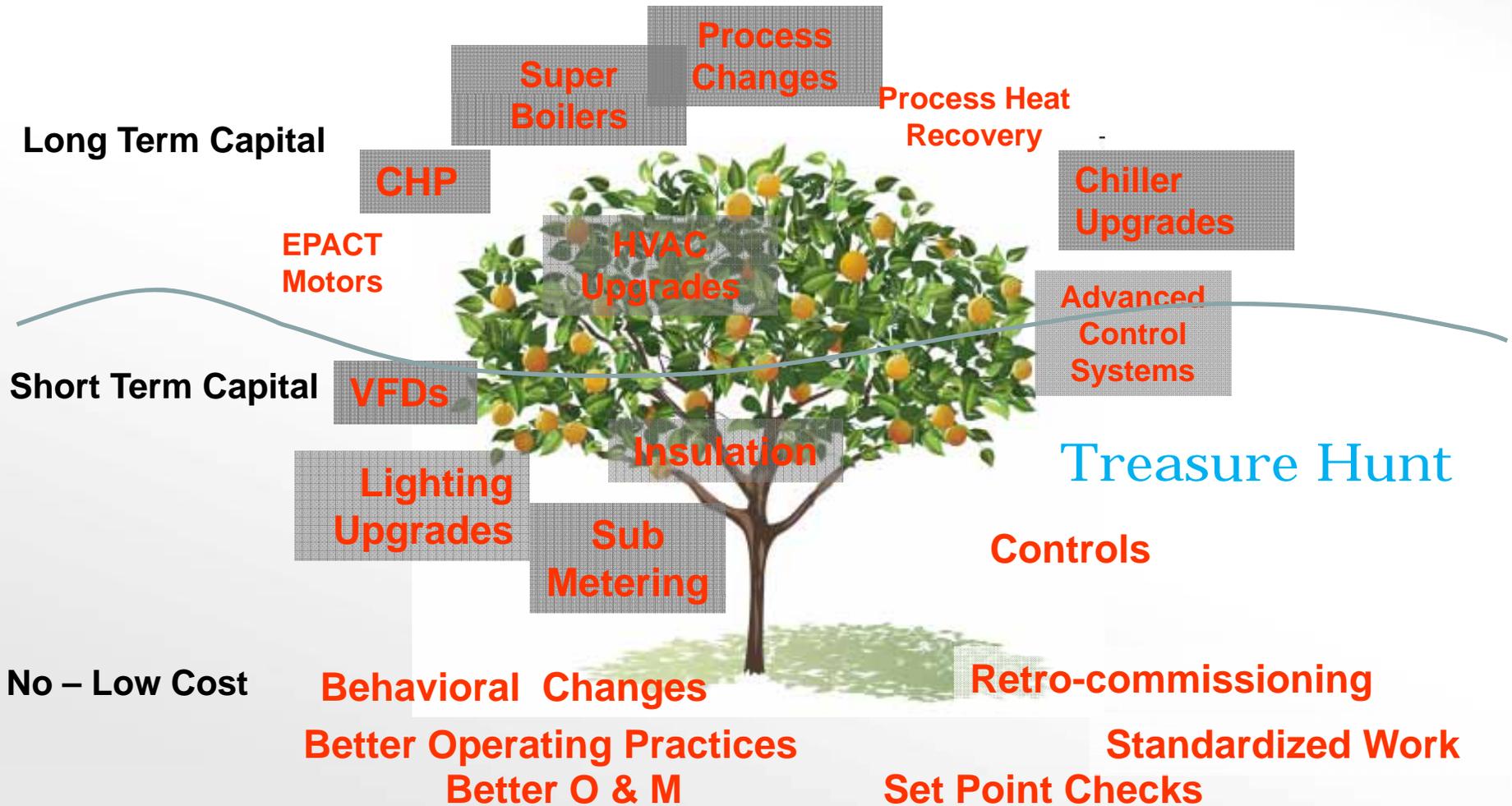
Participants

Bremer Consulting





Harvesting Efficiency



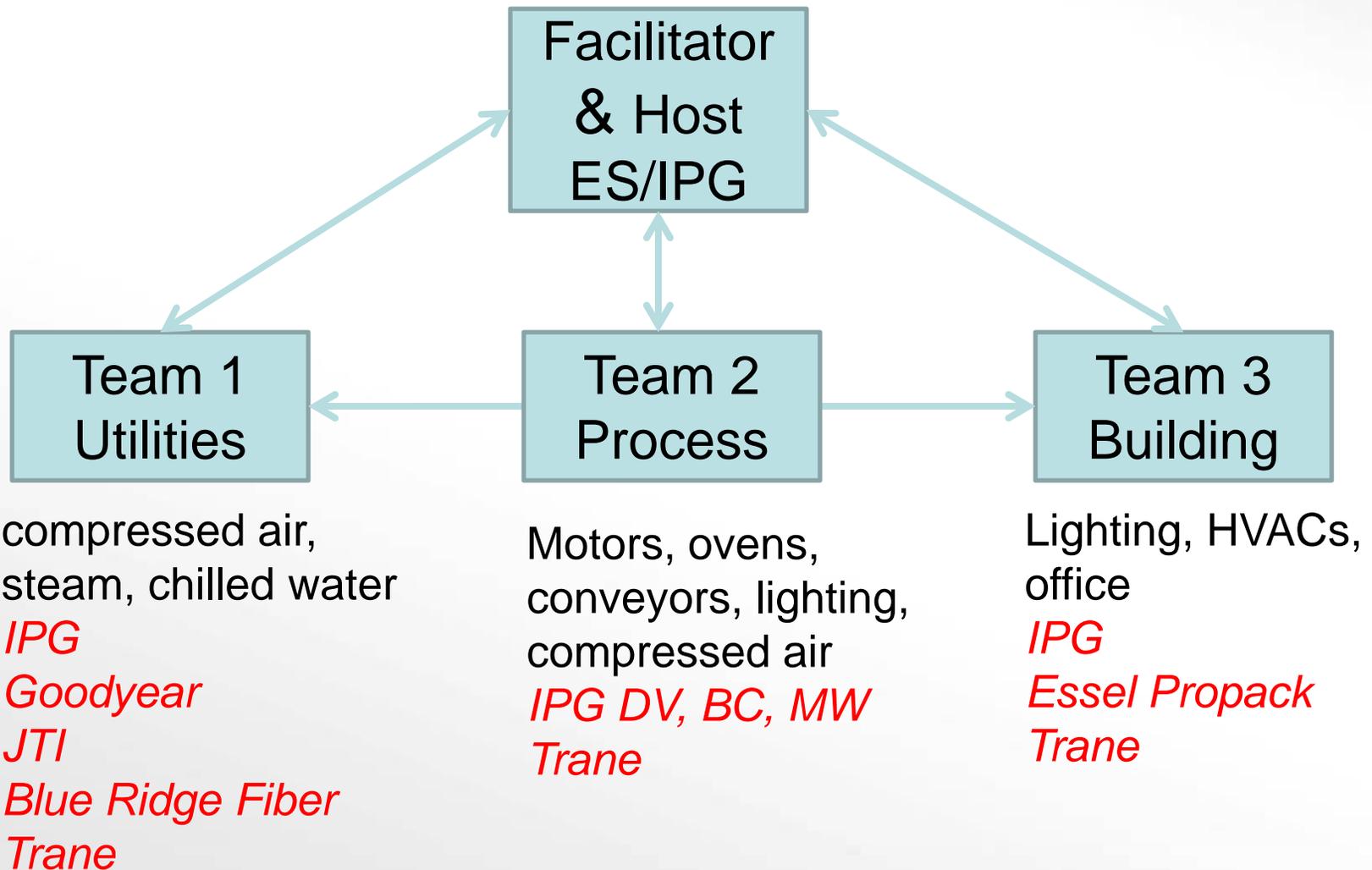


Treasure Hunt Distinct Phases

- Preparation
 - Organization's leadership support - 6 weeks before the planned onsite event
- Pre-Training
 - Meet team leaders to confirm roles & responsibilities, and agenda – 1 week before the onsite event
- Three-day Onsite Event
 - Teams identify, quantify energy-saving opportunities, summarize and present the results to management - Onsite 3 day event
- Follow-up
 - Schedule for pursuing the energy reduction opportunities – 1 to 4 weeks after the onsite event



IPG Treasure Hunt Teams





Findings

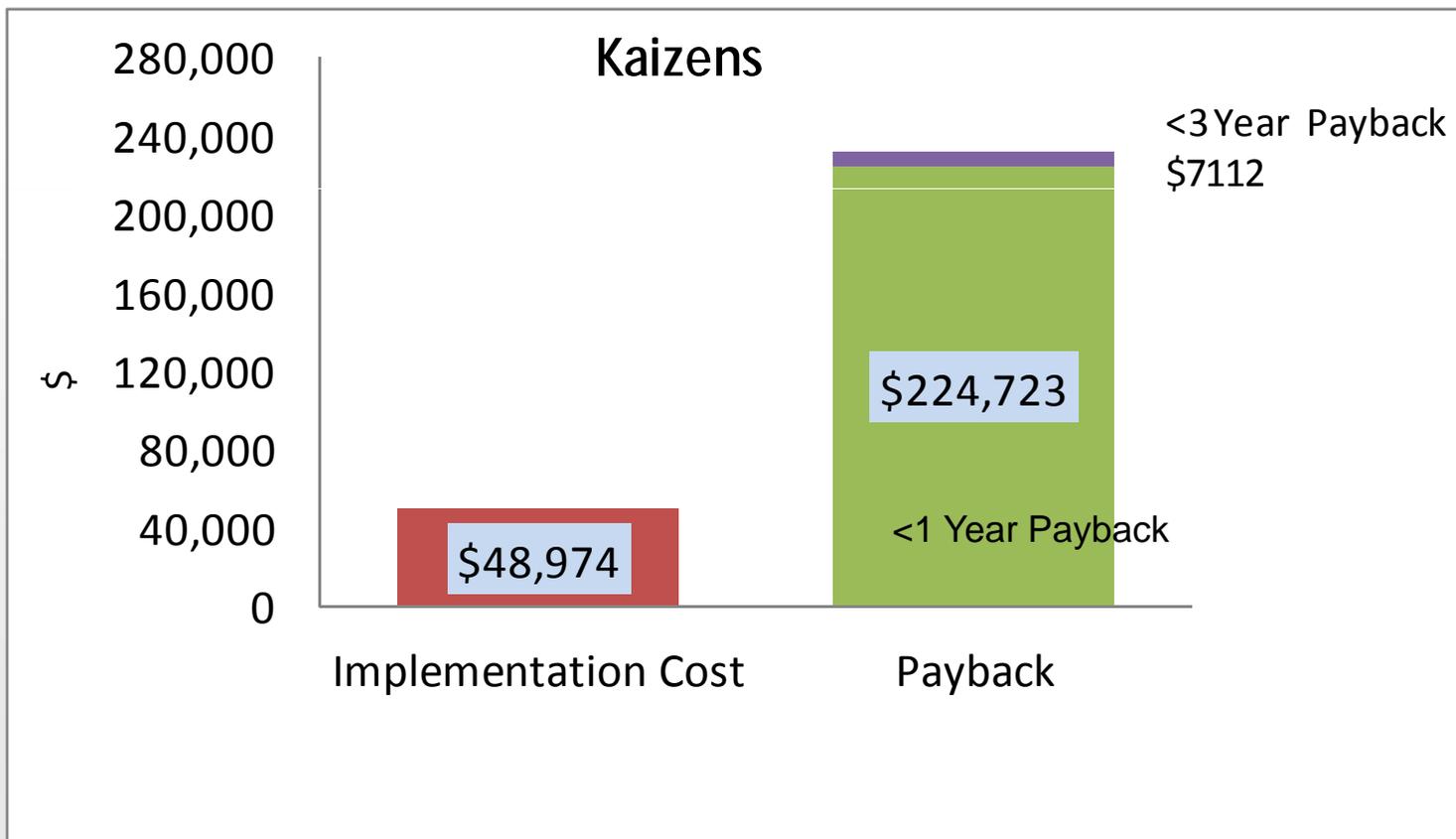
- Metal Halide Lighting (\$38,300 savings)
- Raise Chiller Set Points (\$36,000 savings)
- Waste water metering (\$29,600 savings)
- HVAC Modifications (\$11,700 savings)
- Reducing chillers (\$12,600)
- Turn off Lights in certain areas (\$5,700)
- Stop machinery when not needed (\$4,500)
- Pump Replacement (\$2,100 savings)
- Office Lighting (\$3,400 savings and 0.34 years payback)





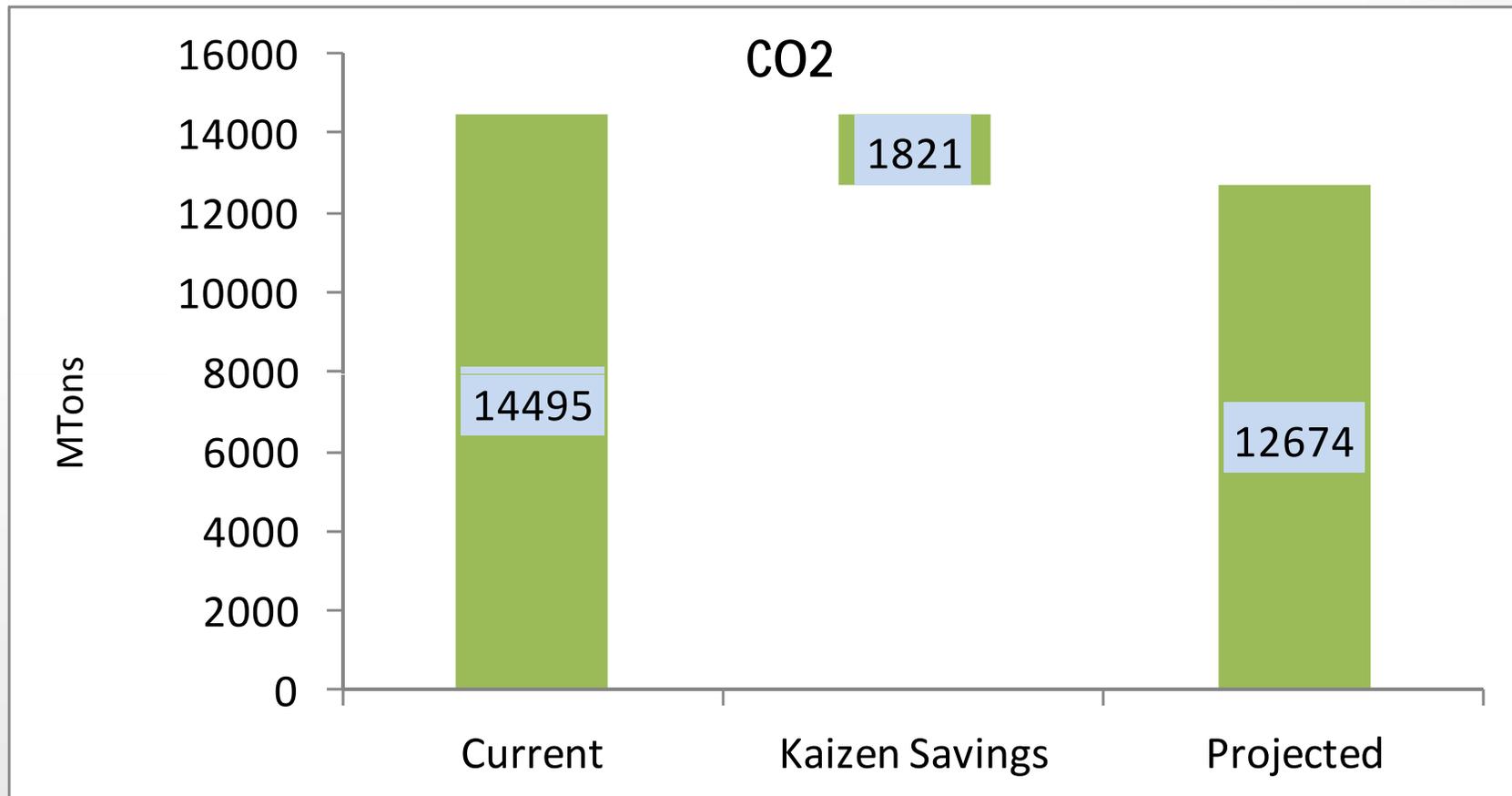
Overall Savings

Savings = \$231,835 and 0.25 Year Payback
4.2% of Total Annual Energy Spend





Overall Savings



1,821 metric tons of greenhouse gases = 379 passenger vehicles



Next Steps

- Additional Treasure Hunts
- Continue and Strengthen Energy Managers Network through the Association for Energy Engineers (AEE) Danville Chapter
- ***Change the World, Start with ENERGY STAR*** campaign





Southside Plant Performance



Mike Jones (Left) receives Certificate of Appreciation from Walt Tunnessen, ENERGY STAR



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Thank you!

Questions?

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