



Energy and Environment Cabinet

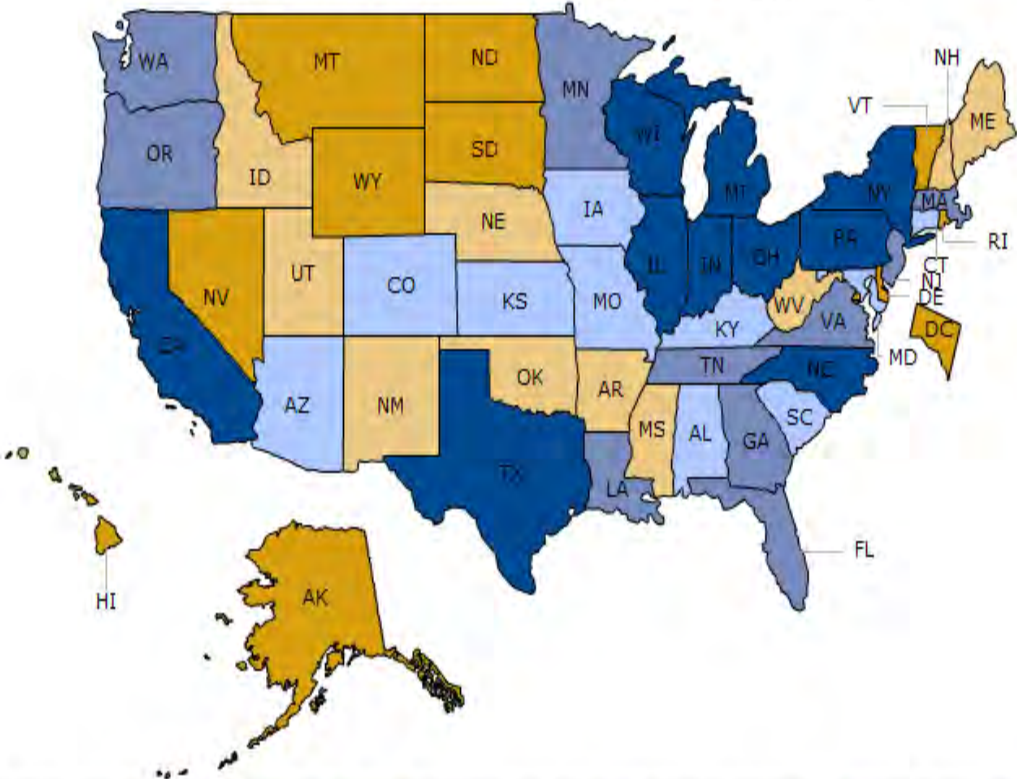
February 8, 2012

Kentucky's Industrial Manufacturing Initiatives

NASEO/ASERTTI Energy Policy & Technology
Outlook Conference



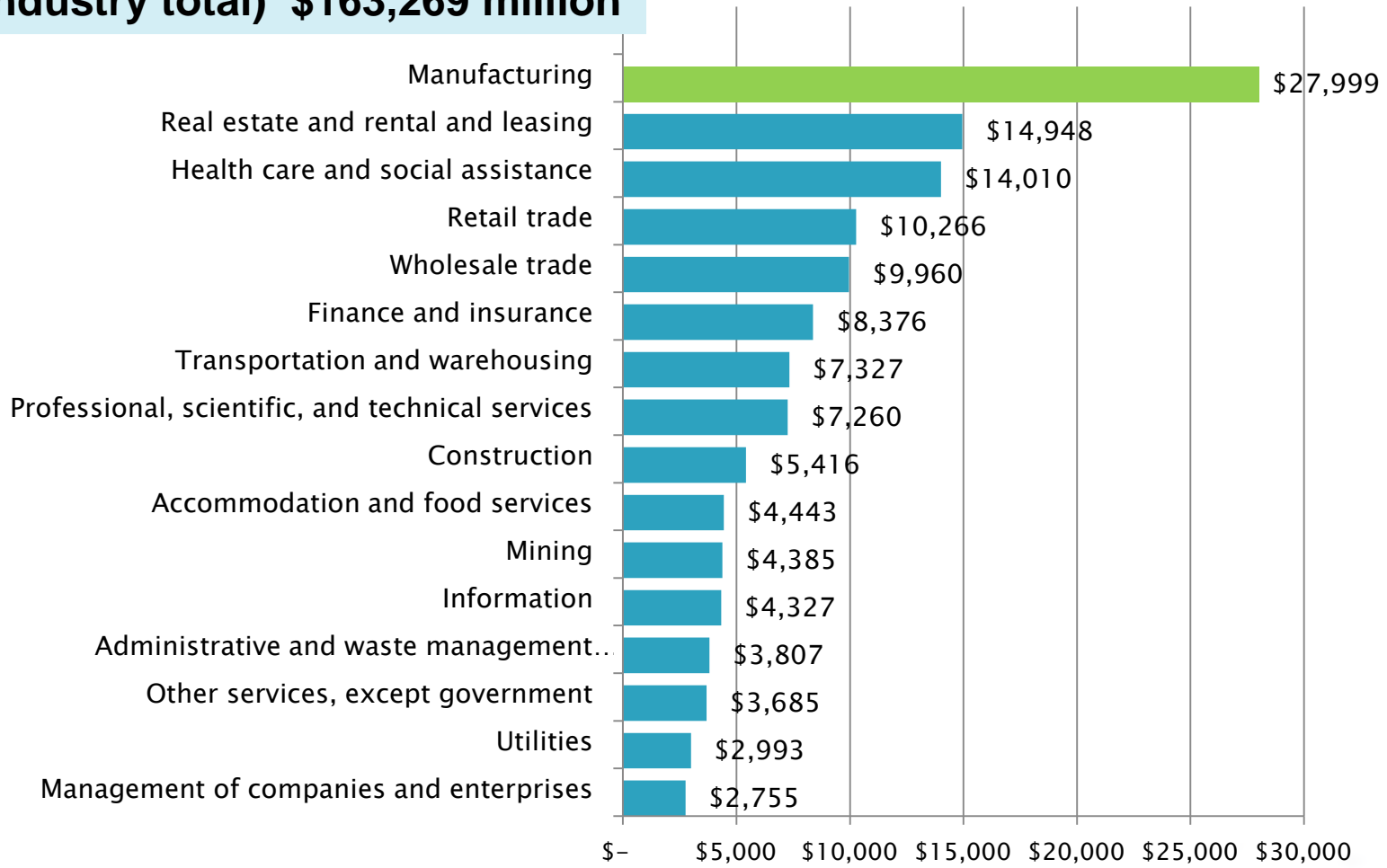
Gross Domestic Product by State – Manufacturing 2010 (million of current dollars)



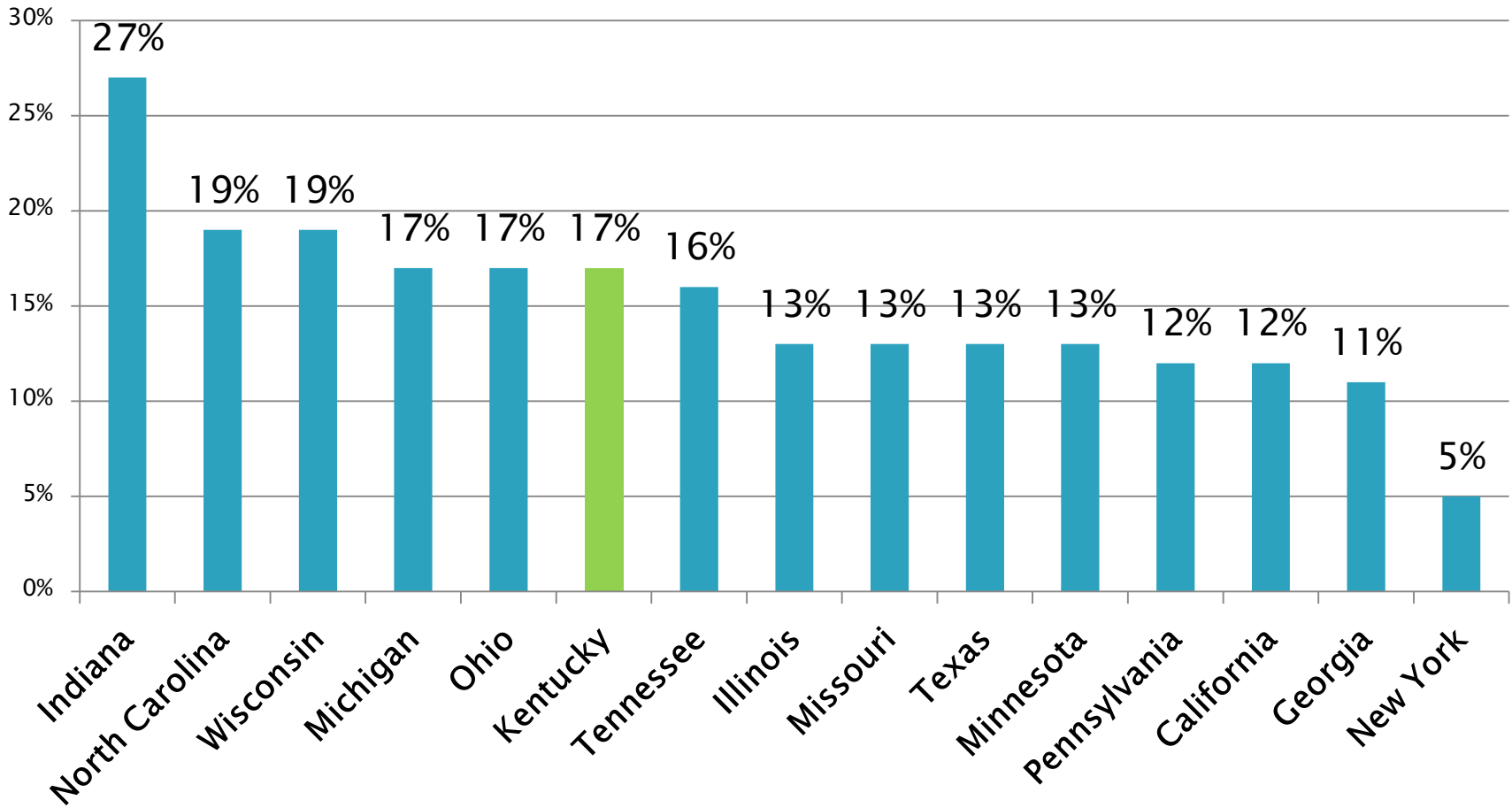
Source: BEA U.S. = 1,717,525 ■ 44,469 to 220,230 ■ 30,904 to 44,468 ■ 17,270 to 30,903 ■ 5,191 to 17,269 ■ 219 to 5,190

Kentucky Gross Domestic Product -2010 (millions of current dollars)

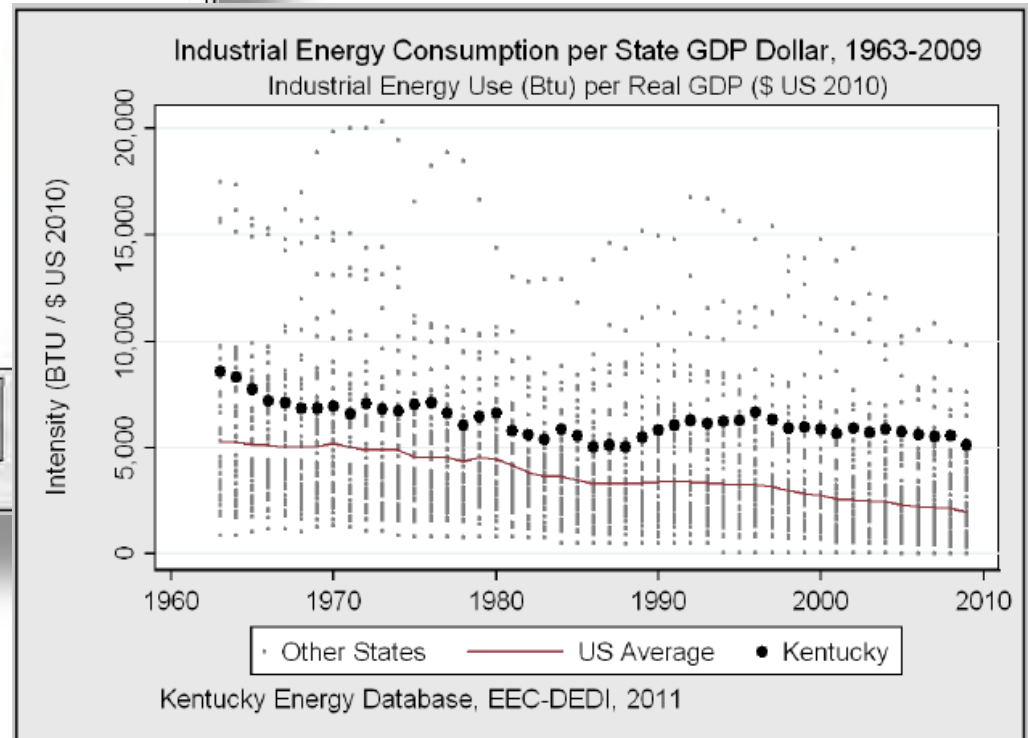
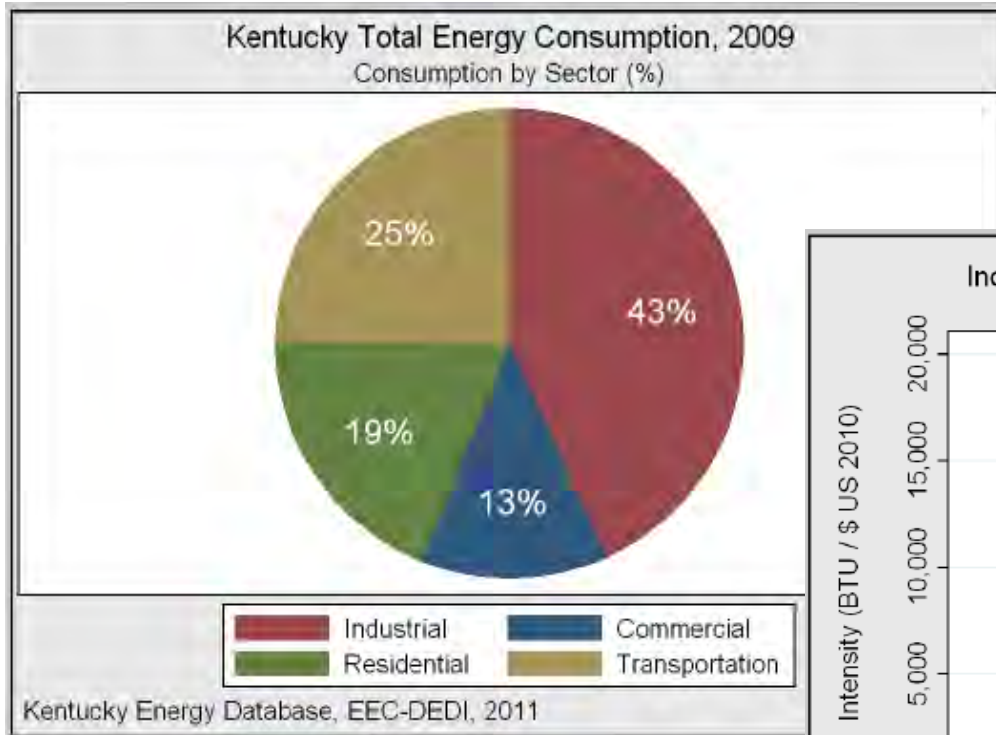
Kentucky 2010 GDP
(All industry total) \$163,269 million



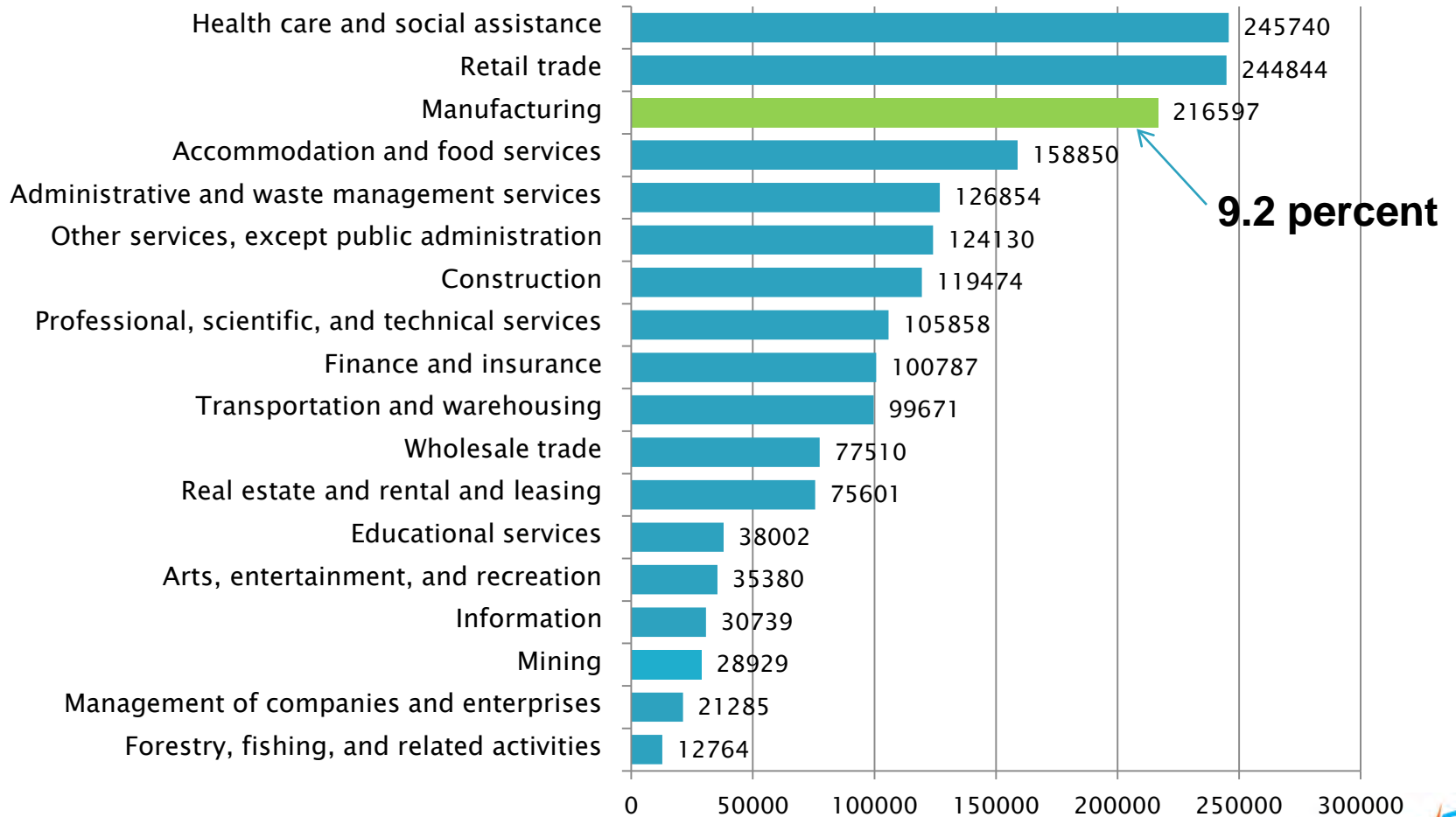
Manufacturing as a Percent of Total State Gross Domestic Product - 2010



Kentucky Industrial Energy Consumption- 2009



Kentucky Employment by Economic Sector 2010 – Total Jobs



Total 2010 Employment - 2,341,565

Industrial Energy Partnerships



Advanced Manufacturing Office (AMO)



University of Louisville
Speed School of Engineering
Kentucky Pollution Prevention Center



University of Kentucky
College of Engineering
College of Agriculture



Kentucky Cabinet for Economic Development

Kentucky Energy and Environment Cabinet

Kentucky Trade and Manufacturing Associations



Industrial Energy Partnerships



- **University of Louisville –**
 - Speed School of Engineering
 - Kentucky Pollution Prevention Center



- Environmental Sustainability Program (\$2.3 Million ARRA)
 - Served 76 unique industrial and commercial facilities
 - Conducted 31 assessments
 - Assessed approximately 8.7 million square feet of space
 - Water reductions: 5,235,438 gallons/yr
 - Waste generation: 195,000 lbs/yr
 - Electrical savings: 33,120,290 kwh/yr
 - Natural Gas: 164,752 mmBtu/yr
 - Cost avoidance: \$4.1 million/yr

- Save Energy Now (2.5 percent per year for 10 years)
 - 25 pledges – 2010-2012
 - Energy Alliance Roundtables and Facility Tours
 - Partners include Kentucky's Electric Providers



Industrial Energy Partnerships

- **University of Louisville** – Kentucky Pollution Prevention Center
 - NE Energy Management Demonstration (Superior Energy Performance)



Republic Conduit – Louisville, KY
ISO 9001: 2008
KPPC Coach
ISO 500001 Training – January 2012

Industrial Energy Partnerships



- **Industrial Facility Retrofit Showcase** – Economic Development Cabinet
 - \$4.5 million ARRA funds
 - 11 awards – leveraging \$4.1 million in company match

AWARDEE	Overview	Grant Award
3M	Air Handler & Adv Meter	\$ 86,689
Perdue Farms	BioGas Turbine	\$ 240,000
Arch Chemicals	Condensing Economizer	\$ 450,000
Sekisui	Lighting Retro	\$ 144,170
Florida Tile	Lighting Retro	\$ 162,500
GE Aviation	Lighting Retro	\$ 200,000
Montaplast of N.A.	Lighting Retro	\$ 280,500
Hausner Hard-Chrome	Lighting Retro	\$ 35,378
AGC Automotive	Lighting Retro	\$ 83,990
GE, Appliance Park	Relamp and Steam Upgrade	\$ 2,500,000
International Paper	White Water Filtration	\$ 400,000

Industrial Energy Partnerships

- **Industrial Assessment Center – University of Kentucky**
2011 Award -



- **Kentucky Manufacturing Association**
2011 Energy Conference - April 20



- **Kentucky Chamber of Commerce**
2011 Kentucky Energy Management Conference –
December 6-7



Key Points

- More than smoke, booze and muck
- Manufacturing is vital – it's jobs and GDP
- Energy intensive state
- Energy efficiency is local
- Federal, state, local and industry partnerships work



Presidential Charge



President Obama
State of the Union Address
January 24, 2012

“Help manufacturers *eliminate energy waste* in their factories and give businesses incentives to upgrade their buildings.”



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