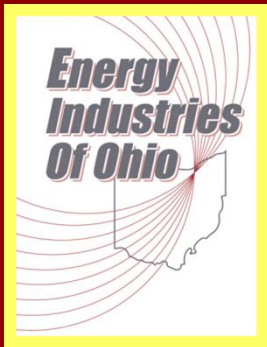




# Facilitating Industrial Efficiency Through Public/Private Partnerships

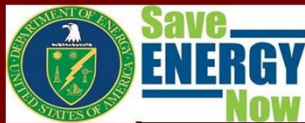
Lawrence C. Boyd Jr.  
Director,  
Industrial Technology Programs

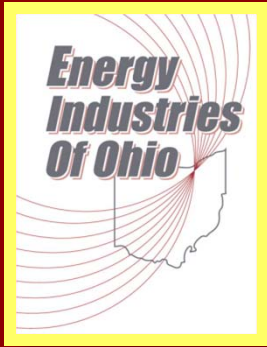
Ohio Center for Industrial  
Energy Efficiency



# Energy Industries of Ohio

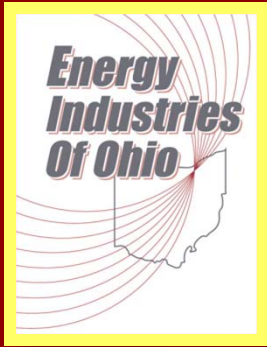
- ⇒ Non-profit 501(c).3 Corporation
- ⇒ Technology Development & Tech Transfer
  - ⇒ Ohio's Power Generating Industries
  - ⇒ Ohio's Energy Intensive Industries
- ⇒ Manage Ohio's IOF Program since 2001
- ⇒ Focus on Large Energy Consuming Sectors
- ⇒ Best Practices Training (~ 30 sessions)
  - ⇒ Over ~750 Persons Attending
- ⇒ DOE Process Heating Energy Expert
  - ⇒ Performed 11 PHAST Assessments
- ⇒ Successful R&D Program
  - ⇒ Patent on Aluminum Foams
  - ⇒ 2006 Governor's Award for Excellence in Energy for Improvements in Basic Oxygen Steel Making





# Why

- ⇒ Ohio (Depending on the year)
  - ⇒ Fourth Industrial Energy Use (~1,200 Tbtu)
  - ⇒ #1 or #2 State for Steel (13%), Glass (7%), Metal Casting (12%), Forging & Stamping (16%)
- ⇒ JOBS

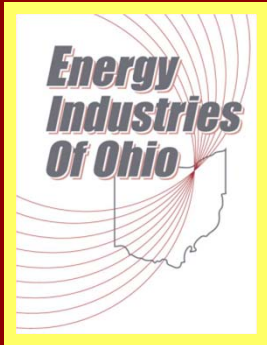


# Ohio Center for Industrial Energy Efficiency (OCIEE)

## ⇒ Activities

- ⇒ Integrate Federal/State/Private Sector Programs.
- ⇒ Deliver Best Practices Energy Efficiency Training
- ⇒ Management Practices and Technical Assistance

## ⇒ GOAL – IMPLEMENTATION



# OCIEE

## ⇒ Funding

### ⇒ US DOE

- ⇒ State Energy Plan (SEP), SEP Special Projects, IAC
- ⇒ Best Practices Training, Instructors, Energy Experts
- ⇒ Save Energy Now, Leader Program, etc.

### ⇒ Ohio Systems Benefit Charge

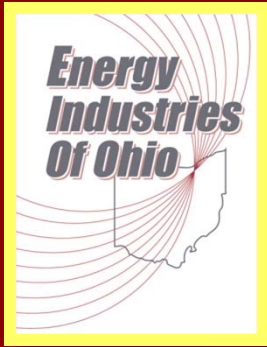
### ⇒ ARRA Recovery Act Funding

### ⇒ Utility Efficiency Programs

### ⇒ Interested Manufacturers

## ⇒ Participants

- ⇒ Utilities (Gas & Electric), Industry Associations, Universities, MEP's, Edison Centers, For-Profit Consultants, Ohio Manufacturers

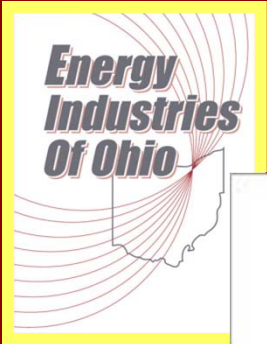


# OCIEE

## Facilitating Implementation

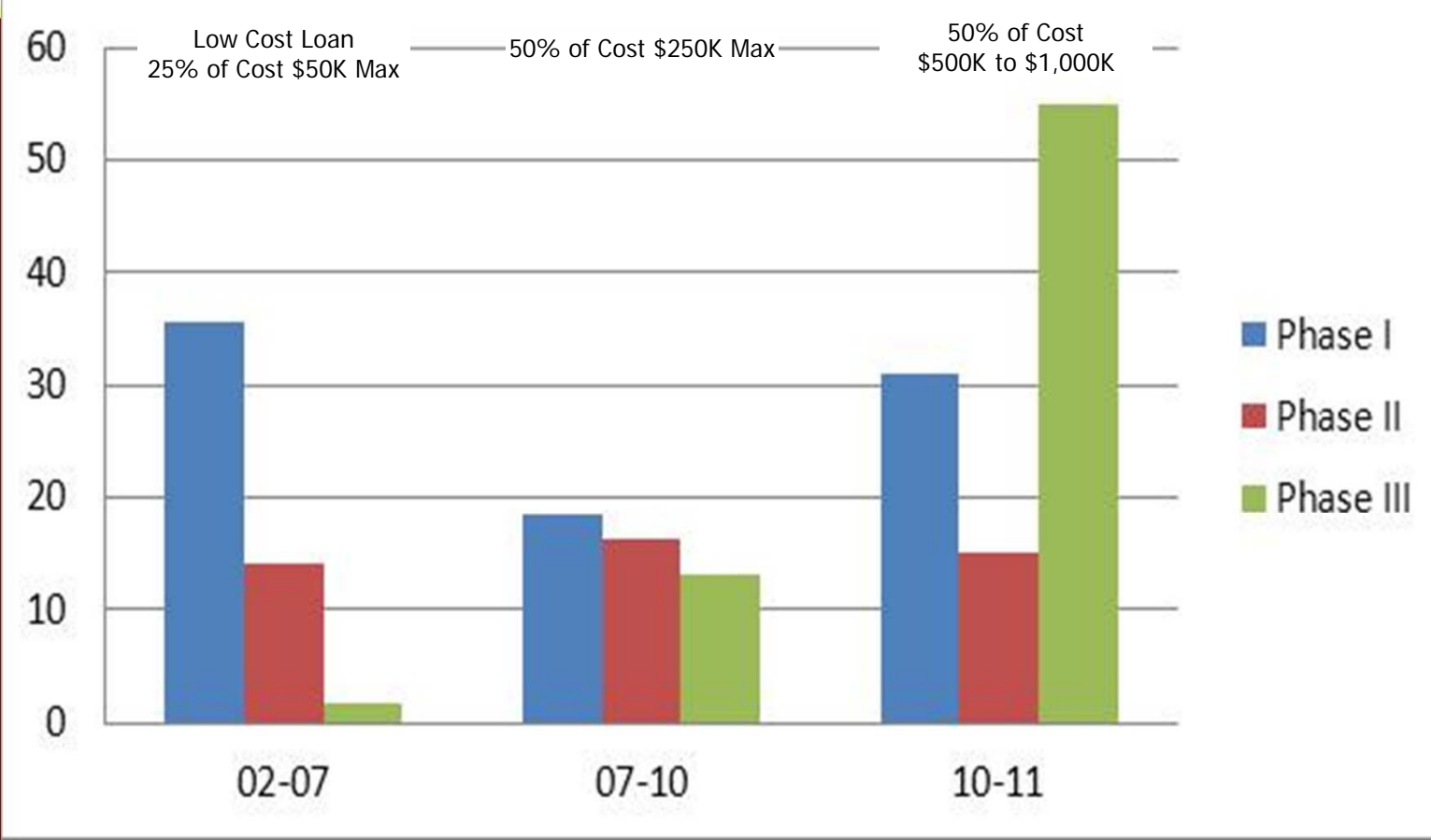
### ⇒ Three Phase Program

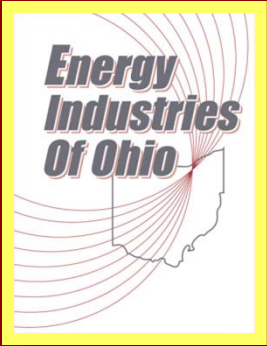
- ⇒ Phase I. Envinta One-to-Five Evaluation
  - ⇒ Develop Management Awareness / Support (NO COST)
- ⇒ Phase II. Develop Energy Management Plan
  - ⇒ Demonstrate Company Commitment (50-50 Cost Share)
- ⇒ Phase III. Implementation Assistance
  - ⇒ Facilitate Implementation (Varies)



# Program Participation

## Yearly Program Activity



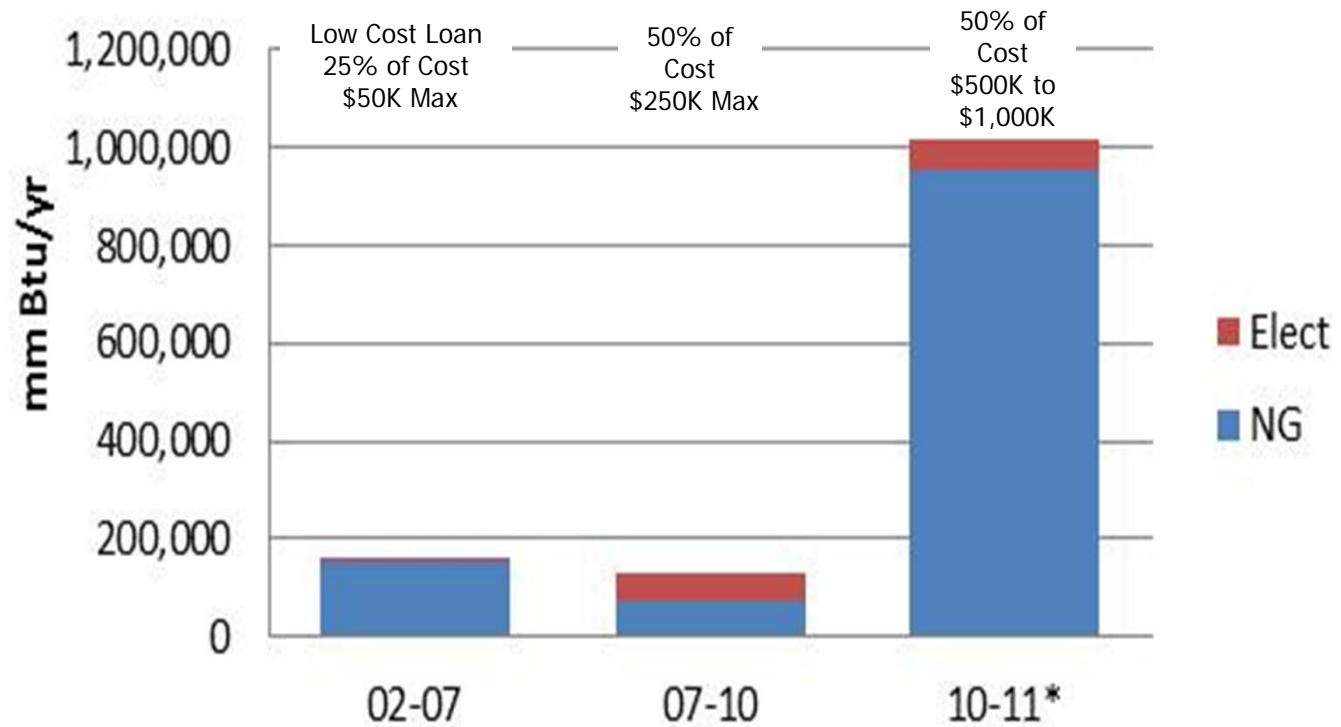


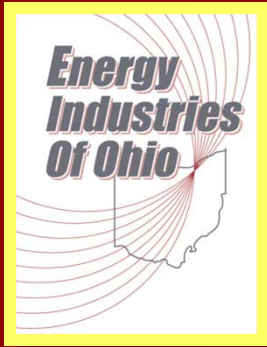
# Program Results

## Total Energy Savings

by Program Phase

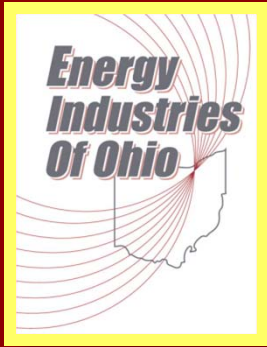
\* Estimated





# General Observations

- ⇒ Public/Private Partnerships Providing Technical Assistance to Companies Significantly Impacts Energy Efficiency Implementation
- ⇒ Program Structure
  - ⇒ Low Cost Loan Program
    - ⇒ Applies only if project already meets internal hurdle rate
  - ⇒ Grant Programs
    - ⇒ Allows more projects to meet internal hurdle rate.
    - ⇒ The larger the grant, the more projects meet internal hurdle rate.



# Contact Information

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  - ⇒ [boyd@energyinohio.com](mailto:boyd@energyinohio.com)