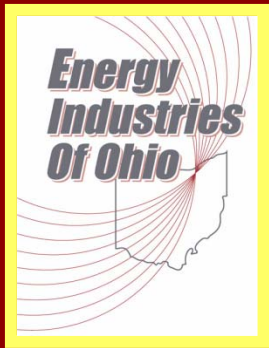


Facilitating Industrial Efficiency Through Public/Private Partnerships

Lawrence C. Boyd Jr.

Director,
Industrial Technology Programs

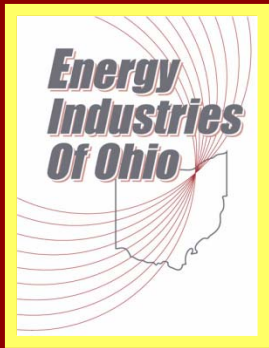
**Ohio Center for Industrial
Energy Efficiency**



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





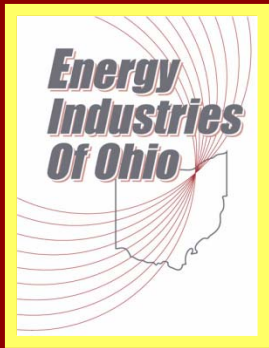
Why

⇒ 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

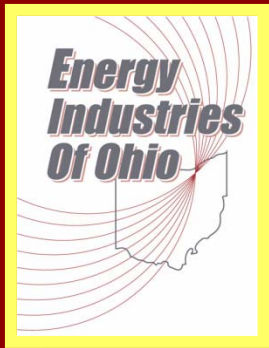


Ohio Center for Industrial Energy Efficiency (OCIEE)

⇒ 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

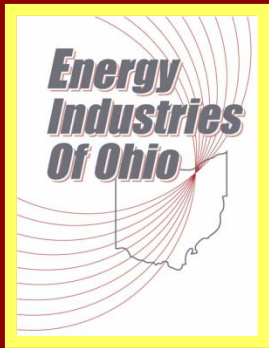
⇒ ARRA Recovery Act Funding

⇒ 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

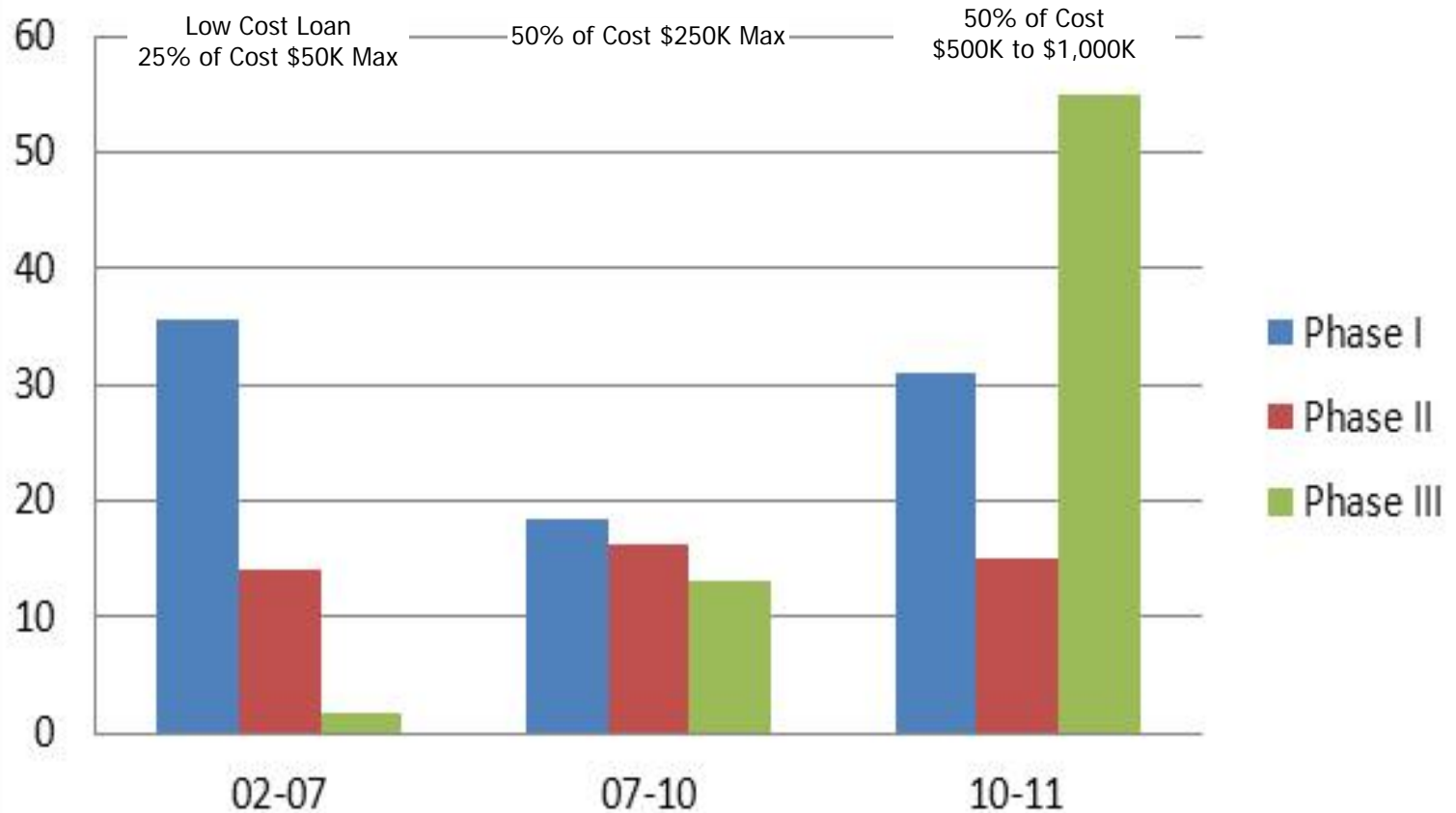
⇒ Demonstrate Company Commitment (50-50 Cost Share)

⇒ Phase III. Implementation Assistance

⇒ Facilitate Implementation (Varies)

Program Participation

Yearly Program Activity

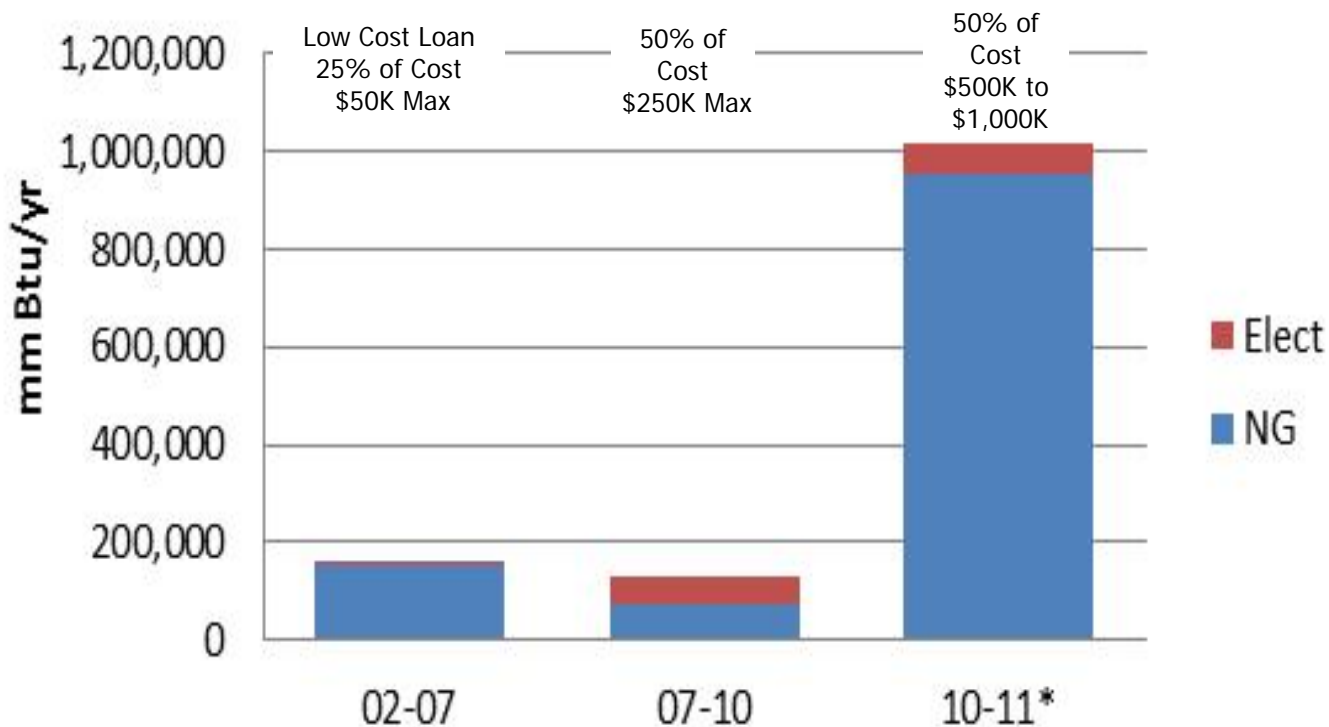


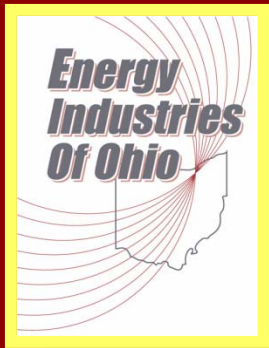
Program Results

Total Energy Savings

by Program Phase

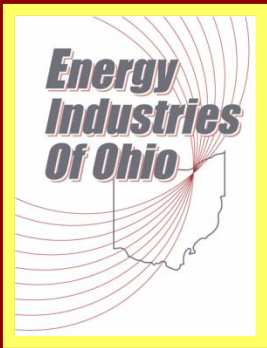
* Estimated





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

- ⇒ **Larry Boyd**
- ⇒ Energy Industries of Ohio
- ⇒ 216-323-1898 (Phone)
- ⇒ boyd@energyinohio.com