

NYSERDA

Industrial and Process Efficiency

CEE Industrial Committee
June 2, 2010

Commercial & Industrial Programs

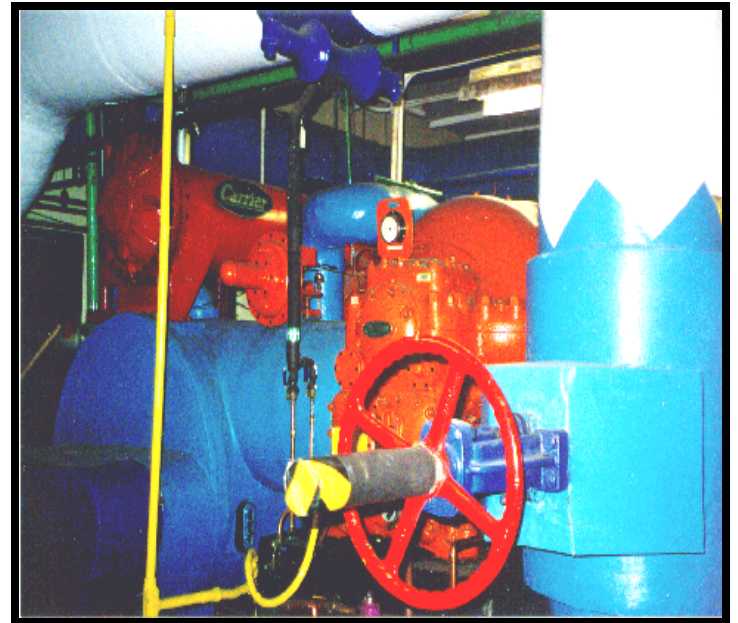
Technical Assistance	FlexTech Energy Studies Process Studies Focus on Industry Customer Support LEAN Energy Assessments	
Financial Incentives	Energy Efficiency <ul style="list-style-type: none">○ Electric○ Natural Gas Industrial & Process Efficiency <ul style="list-style-type: none">○ Process based incentives	

FlexTech

Customized Energy Studies

No specific Industrial budget

- Cost share 50/50
- Up to \$1,000,000 over 5 years
- Engineering feasibility studies
- Energy master plans
- Project specific: Compressed Air
- Process Improvements
- Energy advisor consulting

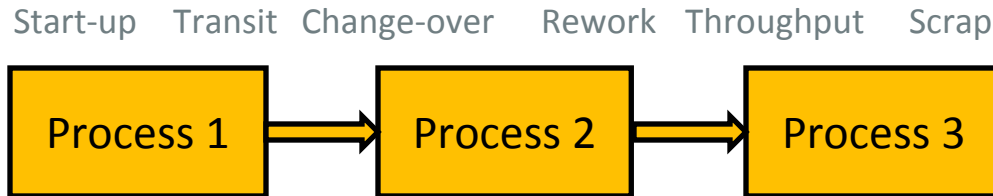


Linking Energy Efficiency to LEAN Manufacturing

Energy Stream Map

INPUTS

Raw Materials
Time
Labor
Water
Energy



OUTPUTS

Final product
Waste products

- Identify & quantify energy use at each step
 - Use vs. need
 - Recovery opportunities
 - Alternative process & technology
- Develop future Energy Stream Map

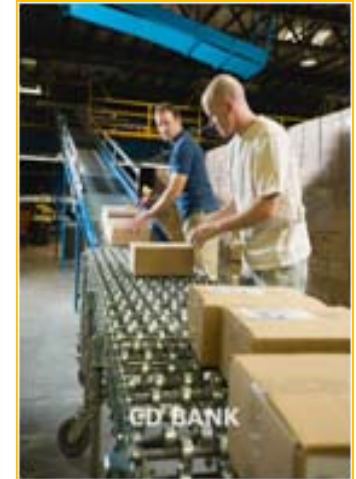
Industrial and Process Efficiency Program

\$103 Million Available

Goals: 840 GWHR & 1 Million MMBTU

INDUSTRIAL: Improved productivity = less energy

- Process improvements
- Support systems
- Buildings
- Waste reduction



- Measurement: Energy saved per unit produced

■

Incentive: Electric & Gas, based on energy saved/yr
\$.12 or \$.16/kWh and \$15 or \$20/MMBtu

■

Engineer Analysis: required to determine energy savings

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Minimum: \$10,000 project incentive

■ 5

Case Study: Dielectric Labs

- Project Objective: Increase capacity
- Replaced 2 existing machines with 1 new combined machine
- New sorter/tester saved energy by
 - Consolidated machines
 - Higher output
 - Used less compressed air
- Reduced energy use 325,000 kWh/year

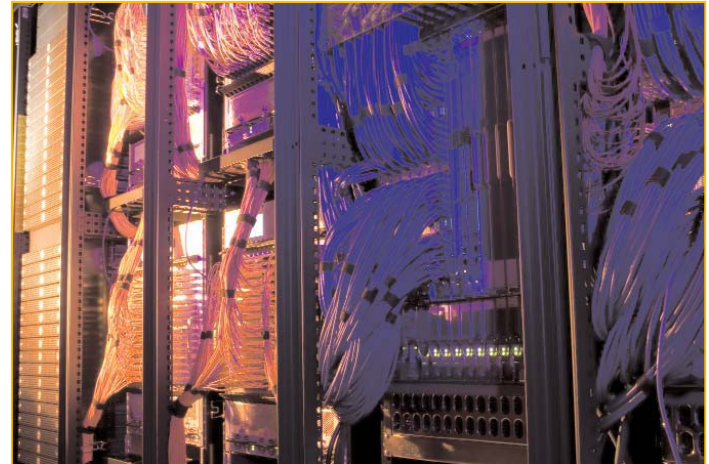


Industrial & Process Efficiency Incentive: \$39,000

Industrial and Process Efficiency Program

DATA CENTERS: Improved IT & Computing = Energy Efficient

- Energy savings per unit of data processed
- Support system efficiency:
 - Process cooling
 - Air flow management
 - Utilization of waste heat
 - Virtualization
 - Next generation servers
 - Applications management strategies



RGGI: Competitive Greenhouse Gas Reduction (CGGR) Industrial Pilot Program

\$13 Million Available – Goal: 500,000 Tons CO₂e

Objective: Reduce GHG emissions & energy consumption through technically viable projects.

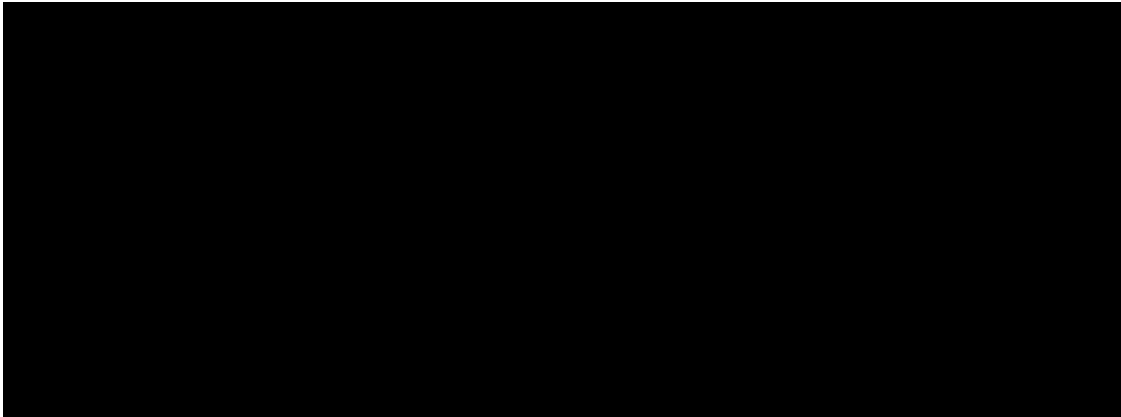
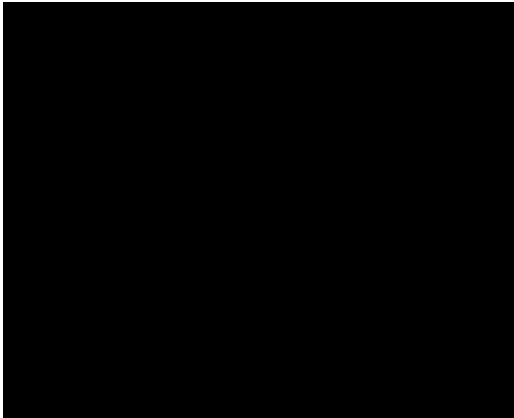
Competitive Bid:

- Technical Feasibility
- \$ / ton CO₂e

Schedule

- RFP release: June '10
- Bids due: Aug '10
- Awards announced: Oct '10
- Awards contracted: Dec '10

RGGI: Competitive Greenhouse Gas Reduction (CGGR) Industrial Pilot Program



DOE – NYSERDA

Goal: Deep & Verifiable Savings

Save Energy Now

- Leader Companies
 - Participate in NYS Programs
- State Partnership
 - Company Relationships
 - Improvement Installations
- Umbrella
 - Assessments to Installation Incentives
 - Tools, Training, Information

DOE – NYSERDA

Goal: Deep & Verifiable Savings

Superior Energy Performance Companies

- NYS Program Participation & Relationship

CHP Support

CEE - DOE

Continue Strong Efforts to:

- Bring Together Organizations & Memberships
- Exchange Information
- Make Known DOE Programs & Tools

Address Program Opportunities for:

- Deep vs. Easily Replicable Savings
- Large & Verifiable Impact vs. Information
- Corporate (C-Suite & Process) vs. Plant Relationships

More info:

www.nyserda.org

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