



Industrial Energy Efficiency Outreach Services & Case Studies

Breakfast Meeting

March 13, 2018

CHA's Industrial Role

- Our Team's Mission:
 - Meet with manufacturers & service providers throughout NYS to learn about their operations, challenges, & opportunities
 - Determine how NYSERDA's programs can align with company's:
 - Capital plans
 - Sustainability initiative
 - Improve ROI
 - Refer to Utility Programs, as appropriate
 - Team with plant staff to identify energy efficiency improvements that can be implemented for existing and new operations
 - Provide guidance & support every step of the application & implementation process
 - Meet with your staff regularly (on-going) to:
 - Advise on future capital planning and potential for financial support from NYSERDA
 - Make sure opportunities are not missed
 - Garner feedback for program improvements
 - Provide support on questions, issues, etc.



Potters Industries

Plant:

 26,000-sq-foot manufacturing facility; engineered glass beads

- Utilized FlexTech program for investment grade level
 assessment of energy efficiency opportunities
- Heat recovery on three furnace lines:
 - Heat to process dryer
 - Preheat furnace combustion air
- Energy Savings: > 54,000 MMBtu/yr
- NYSERDA IPE Incentives: > \$300,000







Pactiv

Plant:

- 700,000-sq-foot manufacturing facility; consumer and food service food packaging products; 15 MW demand
- Corporate initiative to reduce energy per pound of product produced



- Utilizes FlexTech program on an on-going basis for investment grade level assessments of energy efficiency opportunities
- Implementing measures over multiple years, including:
 - Process upgrades, new environmental control technology, process insulation, compressed air system upgrades
- Energy Savings: > 9 million kWh/yr; 10,000 MMBtu/yr
 NYSERDA IPE Incentives: > \$1.2 million





Potsdam Specialty Paper

Plant:

- 220,000-sq-foot manufacturing facility; specialty paper products
- Initiative to reduce energy per net ton of paper produced



- Utilizes FlexTech program on an on-going basis for investment grade level assessments of energy efficiency opportunities
- Implementing measures over multiple years, including:
 - Free cooling, variable speed fans/pumps, heat recovery, process upgrades, vacuum upgrades
- Energy Savings: > 6 million kWh/yr; 4,000 MMBtu/yr
 NYSERDA IPE Incentives: > \$500,000





General Motors

Plant:

- 1.8 million-sq-foot manufacturing facility; automotive components including integrated air fuel modules, fuel rails, valves, manifold assemblies, and fuel injectors
- Corporate wide green initiatives

- Utilized FlexTech program for investment grade level assessments of energy efficiency opportunities
- Recommended measures, including:
 - Chilled/tower water, compressed air, process hot water
- Energy Savings: > 3.1 million kWh/yr; 260 MMBtu/yr
- Implementing measures with 1.8 million kWh/yr savings
 NYSERDA IPE Incentives: > \$100,000





Linking Energy Efficiency To Lean Manufacturing

Chemical products , 200,000 sf plant, 75 employees, 24 X 7



Industrial Energy Efficiency Programs

Questions?

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