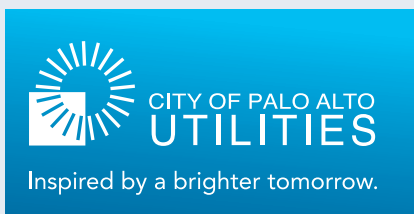




energy innovation
integrity

The Commercial & Industrial Energy Efficiency Program offers expert engineering support at no cost to you. The Program's experienced team is here to help you identify and implement energy efficiency upgrades that will result in energy savings and operations and maintenance improvements for your facility.



City of Palo Alto Utilities supports a variety of companies promoting energy efficiency through funding by Public Benefit Charges. Enovity is working with CPAU to support our customers by assisting their efforts in energy efficiency.

For additional information, contact:

Rachel Christenson
Program Manager
415.974.0390 x104
rchristenson@enovity.com
enovity.com/programs/cpau.html

COMMERCIAL & INDUSTRIAL ENERGY EFFICIENCY PROGRAM

CASH IN ON INCENTIVES AVAILABLE FOR BOILER ENERGY EFFICIENCY PROJECTS

Combine Energy Efficiency Upgrades with NOx Upgrades

- Mitigate efficiency decreases and increased operating costs from NOx reduction
- Realize energy and utility cost savings
- Combine projects for more cost-effective energy efficiency upgrades than when done separately
- Create a payback for a project that may have otherwise been a straight compliance project
- Reduce greenhouse gas emissions
- Energy efficiency upgrades may be eligible for cash incentives

EXAMPLE ENERGY EFFICIENCY PROJECTS DIRECTLY RELATED TO NOx UPGRADES*

- Burner Combustion Fan VFD
 - Upgrade from a fix speed fan with damper control
 - Provides part-load electric savings
- High-Efficiency Boilers
 - If replacing, evaluate the highest efficiency boiler possible
 - Non-condensing boilers available up to 86% efficiency
 - Condensing boilers from 87 to 95% efficiency
 - Consider replacing steam boilers with hot water boilers for additional savings
- Selective Catalytic Reduction (SCR) System & High-efficiency Burner
 - Replace a less efficient, ultra low NOx burner with a high-efficiency, 30 ppm NOx burner and a SCR for ultra-low NOx control
 - Can result in natural gas & electric savings
 - Applicable to larger boilers greater than 20 MMBtu/hr

OTHER ENERGY EFFICIENCY OPPORTUNITIES*

- Exhaust feedwater economizers
- Exhaust condensing economizers
- Blowdown heat recovery
- Condensate recovery
- Process heat recovery
- Insulation on bare pipes, tanks, heat exchangers, and process equipment
- Boiler pump VFDs

*Example energy efficiency measures may not be applicable to all facilities or systems. Applicability should be evaluated by a qualified engineer.



NO_x EMISSIONS LIMITS

BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 9 RULE 7 SUMMARY

Rule #	Rated Heat Input (million BTU/hr)	NO _x Limit (ppmv @ 3% O ₂)	Compliance Dates		
			Effective Date 33% of devices at a single facility	66% of devices at a single facility	100% of devices at a single facility
307.1	> 2 to 5	30	later of January 1, 2011 or 10 years after manufacture date if manufactured prior to January 1, 2011	One year after Effective Date	Two years after Effective Date
307.2	> 5 to < 10	15	later of January 1, 2012 or 10 years after manufacture date if manufactured prior to January 1, 2012	One year after Effective Date	Two years after Effective Date
307.3	10 to < 20	15			
307.4	> 20, load-following unit	15	later of January 1, 2012 or 5 years after manufacture date if manufactured prior to January 1, 2012	One year after Effective Date	Two years after Effective Date
307.5	20 to < 75	9			
307.6	> 75	5			

Footnotes:

Table does not include low usage boilers.

Table only includes boilers using natural gas.

See the actual regulations for further information and specific compliance requirements.

Program may be modified or terminated without notice. Incentives will be paid to customers on a first-come, first-served basis until they have been fully committed.