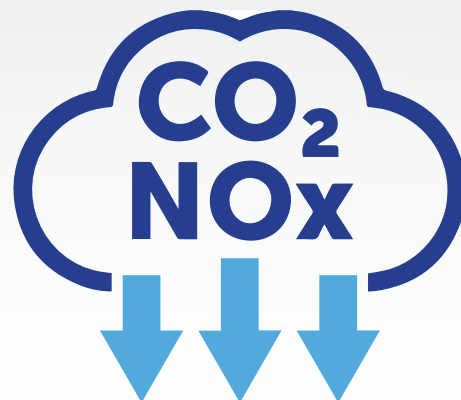


CO₂ REDUCTION IN FIRED EQUIPMENT

Fired heaters emit millions of tons of carbon dioxide (CO₂) every year. Fired heaters usually have a fuel efficiency well below 100%, so any improvements that making them more efficient reduces CO₂. Heaters are currently fueled by carbon-bearing refinery fuel gas or natural gas, so further CO₂ reduction is possible by changing to fuels with less carbon content.

With the ever-changing regulatory climate, enacting an emissions reduction plan can provide a strategic advantage for current limits or future capacity expansion.

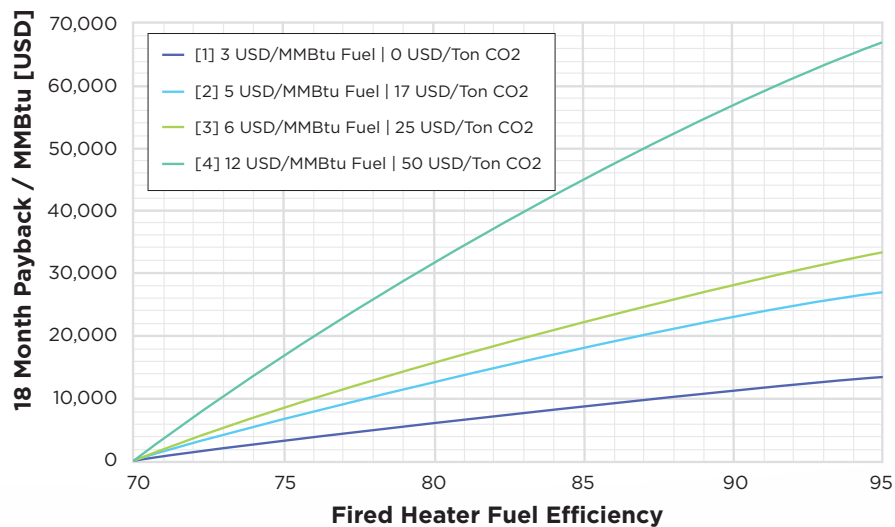
XRG provides site-wide fired equipment emissions reduction plans by evaluating the most cost-effective strategies for each piece of equipment. Our experts deliver a specific plan of action for each unit with detailed performance goals.



STEPS FOR CO₂ REDUCTION

- Complete risk/reward analysis for each heater in a plant
- Evaluate selected heaters for
 - Efficiency increases
 - Project economics
 - Adding hydrogen to fuel
 - Oxy-fuel combustion and carbon sequestration
- CO₂ playbook based on Hydrogen/CO₂ prices

Total Installed Cost / MMBtu Fired for Efficiency Improvements Relative to a 70 Percent Efficient Heater



Why XRG?

XRG Technologies is an innovative engineering and procurement firm specializing in fired equipment for the refining, petrochemical, and power markets.

Combining over 200 years of diverse expertise in heat transfer, combustion, and CFD, XRG is uniquely equipped to solve these challenges delivering a superior engineered product every time!

Depending on carbon and fuel prices, efficiency improvements to existing fired heaters can achieve pay-back in 18 months, while reducing CO₂ emissions.

Now is the time to evaluate the options for reducing CO₂ emissions from your fired heaters. Contact XRG to discuss alternative fuels, efficiency improvements, and other novel technologies.