



THERMAL - CORROSION - FIRE - CHEMICAL

TOTAL ASSET PROTECTION

NANSULATE® ADVANCED INDUSTRIAL PRODUCTS

NANSULATE® TECHNOLOGY

Reducing Energy Use - Saving Money

CUSTOMER SAVINGS: \$100,000/year

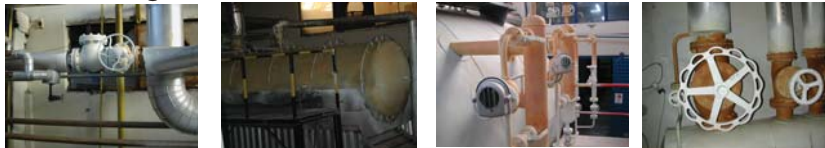
DYEHOUSE

Dyehouse for two of the largest sports apparel manufacturers in the world. Energy costs were reduced by 10%.

APPLICATION: LNG Burners, Dye Machines, Drying Ranges, Steam Pipes, Valves, Hot Water Storage Tanks



Material cost for project: \$40,000
Return on investment for project: 4 months



CUSTOMER SAVINGS: \$30,000/over 4 month period

CORNWELL QUALITY TOOLS

Used Nansulate as part of an integrated solution to increase energy efficiency in their facility

Material cost for project: \$3,572
Return on investment for project: less than 4 months

APPLICATION: Windows



CUSTOMER SAVINGS: \$600,000/year

HENATEKS TEXTILE

Large textile house that used large amounts of energy each year. Energy costs were reduced by 20%.

Material cost for project: \$200,000
Return on investment for project: 6-7 months

APPLICATION: LNG Burners, Dye Machines, Steam Boiler, Heat Exchangers



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20 WAYS TO SAVE ENERGY NOW

LOWER PLANT ENERGY BILLS

Courtesy of the U.S. Dept. of Energy



Steam Generation Systems

8. Improve water treatment to minimize boiler blowdown
9. Optimize deaerator vent rate
10. Repair steam leaks
11. Minimize vented steam
12. Implement effective steam trap maintenance program
13. Use high-pressure condensate to make low-pressure steam
14. Utilize backpressure turbine instead of pressure-reducing or release valves
15. Optimize condensate recovery

All Combustion Systems

1. Operate furnaces and boilers at or close to design capacity
2. Reduce excess air used for combustion
3. Clean heat transfer surfaces
4. Reduce radiation losses from openings
5. Use proper furnace or boiler **insulation** to reduce wall heat losses
6. Adequately **insulate** air or water-cooled surfaces exposed to the furnace environment and steam lines leaving the boiler
7. Install air preheat or other heat recovery equipment

Process Heating Systems

16. Minimize air leakage into the furnace by sealing openings
17. Maintain proper, slightly positive furnace pressure
18. Reduce weight of or eliminate material handling fixtures
19. Modify the furnace system to use a separate heating system to recover furnace exhaust gas heat
20. Recover part of the furnace exhaust heat for use in lower-temperature processes

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