

# Engineering Solutions for Air, Water & Energy Systems

for Textiles, Building & Materials Manufacturing Plants

- Efficiency • Reliability • Sustainability



Your Partner

**CST-HEATKAL**  
EnviroTech

Engineering Solutions for Air, Water & Energy



# High Steam, Water & Heat Losses Are Draining Plant Profitability

## Engineering Before Equipment



### Excessive Steam & Thermal Losses

Dyeing, curing, pressing, drying & batching processes lose large amounts of recoverable heat.



### High Water Consumption & Discharge

Textile processing, cooling & batching create hot wastewater and high treatment load.



### Hot Air & Flue Gases Wasted to Atmosphere

Dryers, ovens, kilns & presses continuously reject usable energy.



### Corrosion, Scaling & Maintenance Issues

Water-based cooling systems cause corrosion, fouling & downtime.



### Rising Energy & Utility Costs

Fuel, power & water costs directly erode margins in price-sensitive industries.



## Where Profits Are Quietly Lost



# Converting Utility Losses into Measurable Cost Savings

## Engineering Before Equipment



### On-Site Diagnostics

Steam, air, water & exhaust systems evaluated under real operating conditions.



### System Analysis & Heat Balance

Identification of recoverable energy while avoiding corrosion-risk zones.



### Smart Heat & Utility Recovery

Focus on air-cooled & dry solutions to reduce water dependency.



### Equipment Only Where Justified

Implemented only when long-term reliability & ROI are proven.



## Key Focus for Textiles • Building & Materials

- Steam condensate & exhaust heat recovery
- Replacement of water-intensive cooling towers with air-cooled or dry cooling systems
- Reduction of cooling tower losses
- Corrosion-free, low-maintenance designs



# Where CST-HeatKal Delivers Value



Textile Spinning  
Weaving & Dyeing



Carpets &  
Industrial Fabrics



Plywood & L, MDF  
Manufacturing



Paint, Glass &  
Insulation Materials



Garments &  
Technical Textiles



Plywood & MDF  
Manufacturing



Cement Products  
(RMC, Blocks)



Paint, Glass &  
Insulation Materials

## Measured Outcomes

- Reduced fuel, power & water consumption
- Lower maintenance and corrosion issues
- Stable utility operation in harsh environments
- Improved plant reliability & uptime

## Why CST-HeatKal

- Deep experience in high-heat industries
- Engineering-led, not product-driven
- Focus on air-cooled, low-water solutions
- Practical, implementable designs

Let us evaluate how much energy your plant is losing —  
and how much of it can be recovered safely.



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