



**THERMAL
FLUID
SOLUTIONS**

ACTIVE GUARDIAN

Real-Time Insight for Safer, More Efficient Thermal Fluid Systems

Smarter System Management Starts Here

Active Guardian is TFS' advanced digital monitoring and analysis platform, providing continuous visibility of:

- System performance
- Energy usage
- Sustainability impact
- Safety conditions

Move from reactive problem-solving to proactive, data-driven decision making.



REAL-TIME SYSTEM INTELLIGENCE

Gain instant insight into:

- Fluid condition and heat transfer efficiency
- Energy consumption and losses
- Operating behaviour and system stress
- Safety thresholds and risk indicators

Understand what is happening, why it is happening, and what to do next.

BEYOND REPORTING. TRUE ANALYSIS

Traditional systems show data. Active Guardian delivers understanding.

Using a digital shadow approach, it mirrors real system behaviour through:

- Automated data integration
- Continuous offline analysis
- No disruption to live operations

Result: clear, actionable insight.

TAKE CONTROL

PERFORMANCE, EFFICIENCY AND SUSTAINABILITY

Unlock measurable improvements:

- True energy efficiency performance
- Real cost of heat delivery
- Identification of energy waste
- CO₂ emissions tracking (Scope 1 and 2)
- Practical sustainability opportunities

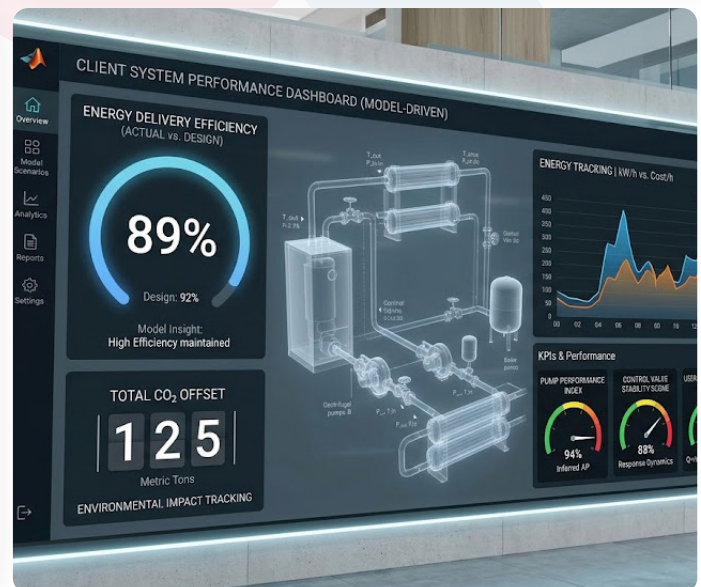
BUILT-IN SAFETY MONITORING

- Early warning alerts before failure or degradation
- Reduced downtime and disruption
- Improved compliance and insurance alignment

Protect your plant, people, and processes.

CONTINUOUS IMPROVEMENT

- Increased system uptime
- Consistent process performance
- Reduced planned and unplanned downtime
- Lower energy and operating costs
- Reduced safety risks
- Lower business and insurance risk



**ACTIVE GUARDIAN TRANSFORMS DATA INTO DECISIONS,
AND DECISIONS INTO PERFORMANCE**

Speak to TFS today to assess your fluid and unlock performance improvements.

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