

INSIGHT
FORESIGHT
TRACK
BUDGET

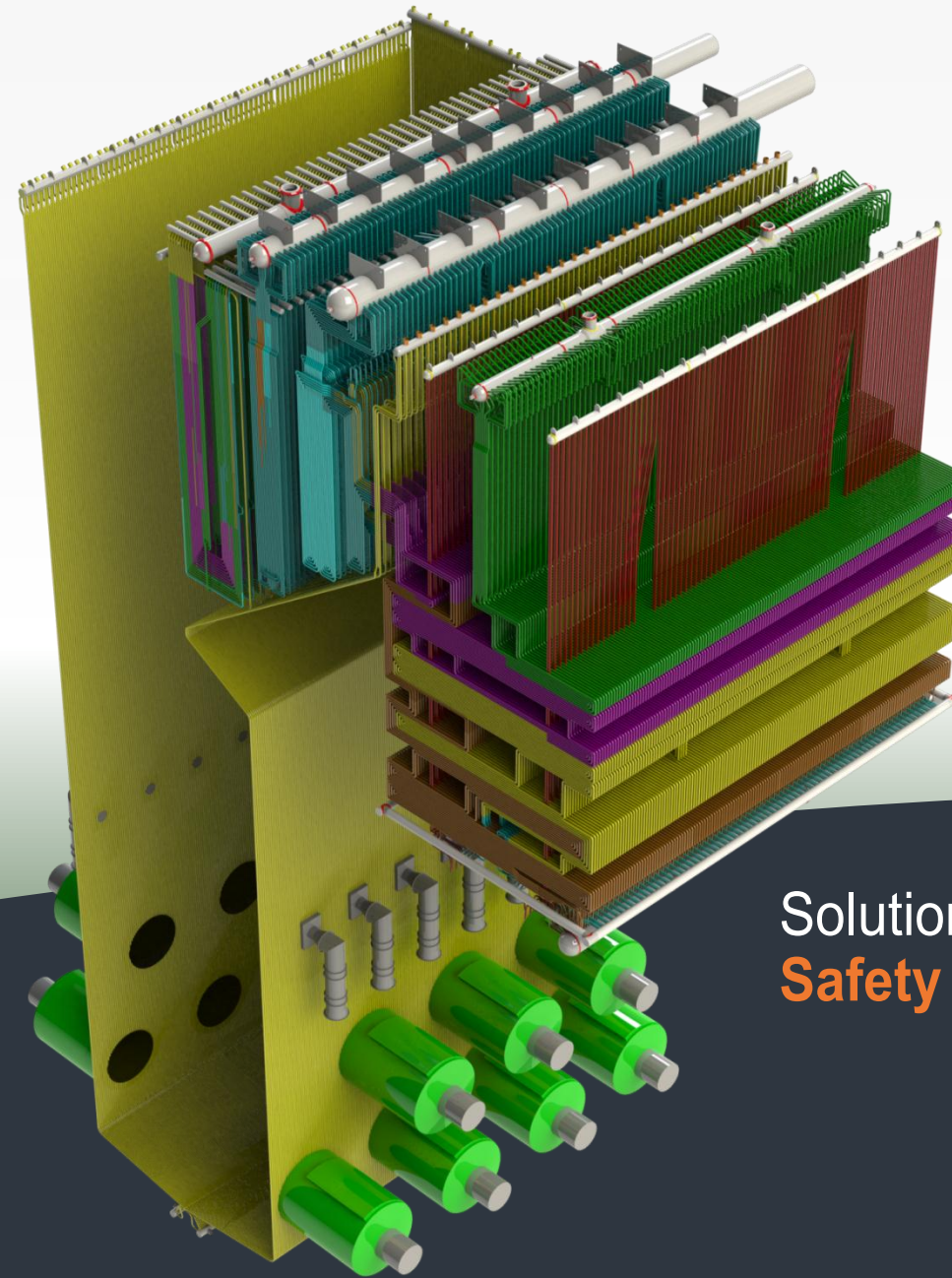
Plants are continuously reducing their engineering staffs due to an aging workforce and a need to stay competitive, which leads to fewer personnel with greater responsibility. Plant operators are routinely faced with the daunting task of determining the current condition of their equipment, forecasting outage budgets/schedules, and performing risk assessments for their facilities.

Additionally, insurance companies increasingly require inspection and maintenance records during the underwriting process. Our goal is to offer our clients the details and insight needed to determine the existing condition of their critical assets, and the foresight needed for maintenance and budgeting, Thielsch Engineering has developed an interactive data management program that allows our clients to access historical design and operational information with the click of a mouse.



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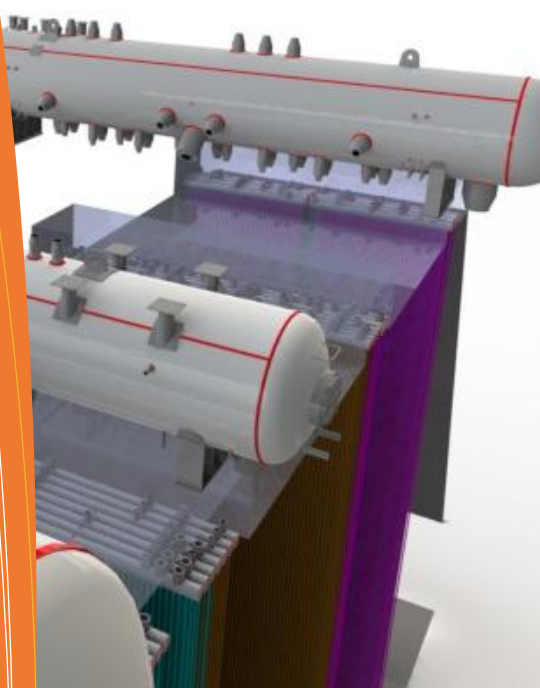
4-SYTE
SYSTEM STRATEGY



Solutions for
Safety & Reliability

INSIGHT · FORESIGHT · TRACK · BUDGET





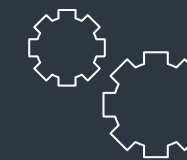
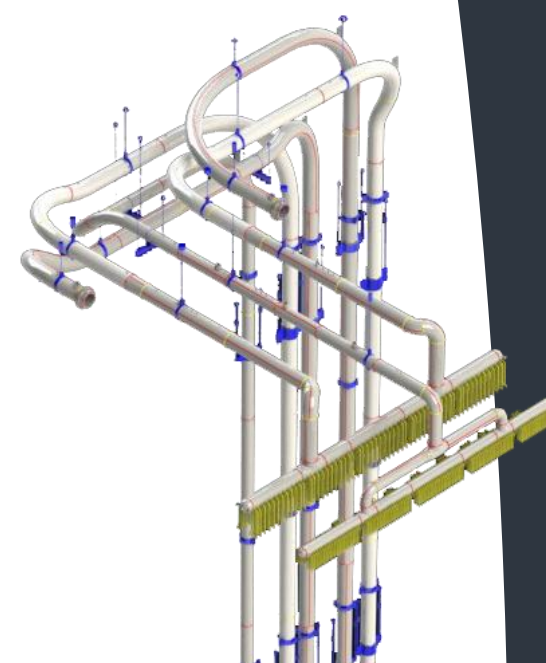
Industry Experts that offer solutions

LINKING YOUR CRITICAL SYSTEMS TO THE TECHNOLOGY RESOURCES YOU NEED

High energy piping systems are among the highest safety concerns and boiler tube failure are the leading cause of lost availability. The industry struggles to accurately track historical inspections, repairs or replacements of these critical systems. As a solution to this industry trend, Thielsch Engineering has developed the Unit Specific programs for High Energy Piping Integrity and Boiler Reliability using our signature 4-SYTE System Strategy Program.

4-SYTE enables utility personnel to access, review and manage all previous inspections, repairs and recommendations associated with any area of their

critical systems through this powerful data management program. The 3-D visualization of the components allows for easier understanding of the location of existing damage mechanisms and enables the tracking of these mechanisms with the click of a mouse. This program, paired with Thielsch's industry expertise in root cause analysis and failure prevention, provides a method of developing a strategy to improve reliability and risk management. 4-SYTE is an essential tool to developing an understanding of the condition of the critical systems in your facilities and developing a strategy to provide safe and reliable continued service.



CUSTOM SEARCHES

The user selects the search criteria and category. 4-SYTE generates a report that can be exported to excel for editing and saving. Within a matter of minutes the user can identify where repairs have been made, what components have been inspected, what the materials are so forth.



WEB BASED

The program is accessed online through a secure website which enables collaboration between multiple users in multiple locations. Data management simplifies the organization of past and future inspections, repairs and replacements. This feature makes it easy for the user to determine what to inspect, when to inspect, and how to inspect.



UNIT SPECIFIC PLAN

Thielsch uses a proprietary Risk and Reliability Matrix to develop a unit specific plan of action including priorities for inspection, types of inspections to be performed and frequency of inspections. These priorities are updated after each outage or inspection to function as a working plan of action.

DATA MANAGEMENT SOLUTIONS

- UNDERSTAND THE HISTORY OF CRITICAL COMPONENTS
- ACCURATELY TRACK TRENDS
- ALLOCATE FUNDS EFFICIENTLY
- CREATE ACCURATE RFQ DOCUMENTS WITH EASE
- PRIORITIZE INSPECTIONS, REPAIRS & REPLACEMENTS.
- MINIMIZE OUTAGE PLANNING EFFORTS.
- ENGINEERING & INDUSTRY EXPERT SUPPORT
- REDUCE FORCED OUTAGE RATE
- REMAINING USEFUL LIFE DETERMINATIONS

strategic solutions for asset management

IMPROVED SAFETY & RELIABILITY

4-SYTE provides a unit specific strategic plan for inspection and replacement/repair of the critical components within your facility. Thielsch has the industry expertise of over thirty years of failure analysis and prevention. We know how to identify when and where components are likely to fail, and we also know why they fail. We utilize this industry expertise to develop proprietary Risk and Reliability Matrices which incorporate unit specific information including the design, historical and budgetary considerations.

- 30+ years of Industry Expertise
- Proprietary Risk and Reliability Matrices
- Library of over 12,000 engineering reports
- Unit Specific Action Plan

SEARCH AND REPORT

4-SYTE allows for customizable searching and reporting on all design, inspection and historical information. The user selects the search criteria and determines the level they want to query. This allows for specific searches and all queries are exportable to excel.

4-SYTE: A COMPLETE UNIT SPECIFIC STRATEGY TO PRIORITIZE AND ALLOCATE WISELY

DATA ACCESS, MANAGEMENT & SECURITY

4-SYTE minimizes the confusion involved with planning and understanding the needs of your facilities, while offering a solution to strategically plan the usage of budgetary dollars. Our service will modernize the way you and your personnel organize and access previous

design and inspection history and your future inspection requirements.

The program is accessed online via a secure website and enables utility personnel to access and manage all previous inspections, repairs and recommendations as well as construction, design

and operational data associated with any area of their critical components within each facility. A plant manager, maintenance manager or outage planner can access the critical information at their office desk, their laptop or from the comfort of their home.

All data is stored in a certified compliant disaster recovery facility for the protection and security of your information.

