

# District Heating: FEED & Detailed Design

## Key metrics



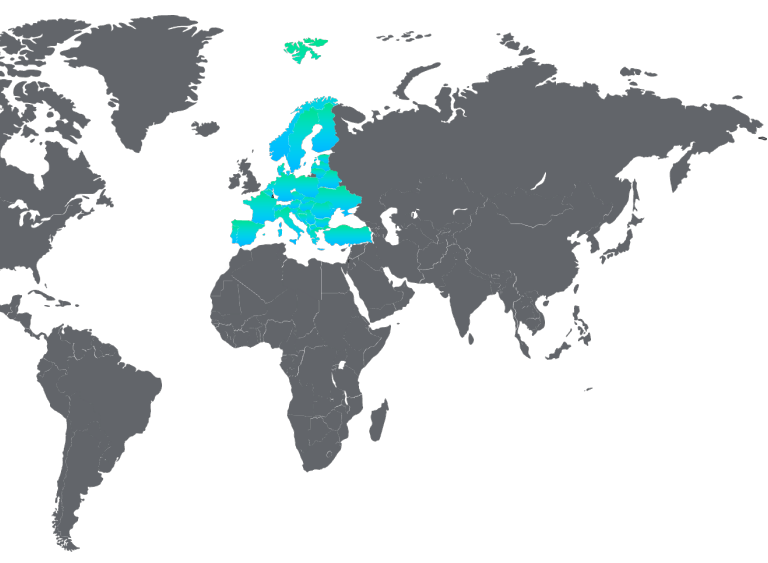
**FEED > Detailed Design**  
Project Phases



**13,400**  
Hours of engineering



**38 weeks**  
Project duration



## AT A GLANCE

InSite delivered the FEED and detailed design for a central European refinery project to capture waste heat for a new district heating scheme. The project advanced from earlier Concept and Feasibility phases also completed by InSite.



## CHALLENGE



A central European refinery required InSite to develop a phased scheme to capture and utilise significant waste heat to support a local district heating initiative. The design had to integrate with infrastructure both inside and outside the refinery fence, accommodate thermal expansion and pressure drop constraints, and align with local and overlay design standards.

## SOLUTION



InSite provided a multi-discipline team to execute the FEED and detailed design phases, delivering fabrication-level drawings and construction support across all disciplines. Collaboration with the client's chosen external contractor ensured smooth interface management between external and refinery systems. The design adhered to local and overlay codes and point cloud data was used in detailed model reviews to engage operations personnel and eliminate access issues. Strong project controls (including transparent change management and comprehensive risk processes) supported cost control and stakeholder confidence. Ongoing communication with executives and key stakeholders contributed to the successful construction and commissioning of the system.