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**ENERGY & PROCESS
OPTIMIZATION**
CONSULTANCY, SOFTWARE
AND ENGINEERING

gap-tech.com

VISION

Best-in-class providers of optimization solutions to the process industries.

MISSION

Supporting processes industry professionals with knowledge and software tools to enable better process performance and energy efficiency.

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DAMMAM



OFFICE
ABUDHABI



FOUNDED IN
2007

GAPTECH has diversified Process and Energy Optimization experience in Oil & Gas Processing, Refineries Petrochemicals, Power Plants and Cogeneration.



EXPERIENCE

PROCESS INTEGRATION



- ⌘ Systems Modeling
- ⌘ Energy Values
- ⌘ KPIs

ENERGY OPTIMIZATION



- ⌘ Targeting
- ⌘ Identification
- ⌘ Evaluation

PERFORMANCE ANALYSIS



- ⌘ Monitoring
- ⌘ Optimization
- ⌘ Enhancements

ENERGY MANAGEMENT



SYSTEM MODELING

- ⌘ Combined Heat & Power (CHP)
- ⌘ Combined Cooling & Power (CCP)



ENERGY COST MODELING

- ⌘ Steam Cost & Steam Value
- ⌘ Fuel Cost
- ⌘ Mechanical Power cost
- ⌘ Electrical Power Import & Export values
- ⌘ Cooling & Refrigeration cost



ENERGY PERFORMANCE INDICATORS (EPIs)

Energy Intensity ➤ Energy Intensity Targets ➤ EPIs

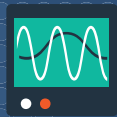
- ⌘ Overall Products EPIs
- ⌘ Process Areas EPIs
- ⌘ Equipment EPIs



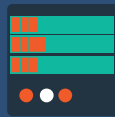
EnPIRE



**CHP
MODELING**



**COMPRESSOR
PERFORMANCE
ANALYSIS**



**FIRED
HEATER
ANALYSIS**



**PUMPING
SYSTEM
ANALYSIS**



**COMBUSTION
TURBINES
ANALYSIS**



**ENERGY
PERFORMANCE
INDICATORS**

ENERGY & PROCESS OPTIMIZATION

CONSULTANCY, SOFTWARE AND ENGINEERING



PROCESS ANALYSIS



OPTIMAL PERFORMANCE TARGETING

- ⌘ Energy Flow Diagrams
- ⌘ Energy Profiles
- ⌘ Pinch Analysis
- ⌘ Beyond Pinch



IDENTIFICATION OF ENERGY CONSERVATION INITIATIVES

- ⌘ Operational Improvements
- ⌘ Load Management
- ⌘ Heat Recovery
- ⌘ Power Recovery
- ⌘ Utilities Integration



FEASIBILITY STUDIES FOR ENERGY PROJECTS

- ⌘ Techno-Economic Evaluation
- ⌘ Scenario Analysis
- ⌘ Road Mapping
- ⌘ Budget Planning

EQUIPMENT PERFORMANCE



ONLINE MONITORING SOFTWARE

- ⌘ Performance monitoring
- ⌘ Target Compliance Monitoring
- ⌘ Operating Cost Monitoring



PERFORMANCE ANALYSIS AND OPTIMIZATION

- ⌘ Driver selection optimization
- ⌘ Retrofitting and Sizing
- ⌘ Debottlenecking



TECHNOLOGY UPGRADES

- ⌘ Identify Enablers
- ⌘ Rehabilitation
- ⌘ Performance Boosters



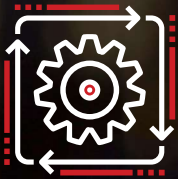
OTHER SERVICES



**MATHEMATICAL
MODELING**



TRAINING



**PROCESS
SIMULATION**



**ISO 50001
SUPPORT**

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