

Compressed Air System | Chilled Water System | Fan System | Steam/Hot Oil Systems

Air Compressor | Chiller | Pump | Cooling Tower | Fan | Motor

Steam Boiler | Hot Oil Boiler | Oven | Fired Heater | Furnace

Process Integration using Pinch Analysis Principle and Aspen Energy Analyzer<sup>®</sup> Program

Production Process Simulation using Aspen Plus<sup>®</sup> and Aspen HYSYS<sup>®</sup> Program to Identify Potential Energy Saving

Utilities (Steam, Cooling Water, Chilled Water) Optimization using Aspen Utilities Planner<sup>®</sup> Program

Performance Improvement of Direct Fired-Heaters using HTRI Xfh Ultra<sup>®</sup> Program

Utility (Compressed Air, Chilled & Cooling Water, Steam) Distribution Network Analysis using PIPE-FLO<sup>®</sup> Program

**Energy Management System Implementation: Conforming to ISO 50001:2018** 

GHG Accounting & Carbon Footprint for Organization (CFO) & for Products (CFP) using LCA FE Tool<sup>®</sup> Program

Water Management | Water Reuse/Recycle Study using Water Pinch Analysis Principle and SIMULIS Pinch<sup>®</sup> Program

Production Process Simulation using SIMUL8<sup>®</sup> Program to Identify Opportunities for Improvement

## Licensed Software - - - - -



Aspen Energy Analyzer Energy Integration



Aspen Exchanger **Design & Rating** 



Aspen Plus/HYSYS Process Simulation



Aspen Utilities Planner



Fired Heater Rating & Simulation



Simulis Pinch for Water Pinch Analysis



Modeling of Liquid and **Gas Flows in Piping Network** 



SIMUL8 **Discrete Event Simulation** 



EasyRCA **Root Cause Analysis Platform** 



LCAFE Tool by Sphera for CFO, CFP, and **Material Circularity Evaluation**