Solvent Extraction Industry

Steam and Process Control Solutions
Solvent Extraction Industry

The cost of steam accounts for 30% of total processing cost of this industry and electricity consumption forms 25%.

For over 70 years, we have partnered the industry in providing solutions in control instrumentation, energy conservation and environmental monitoring. Our teams of the finest engineers are dedicated to serve the process industry across diverse sectors. World class manufacturing facilities and technology enable us deliver quality solutions globally. Our unique complimentary expertise enables us engineer customised systems that improve manufacturing processes, conserve energy and are environmentally sustainable. We partner customers with our knowledge, comprehensive range of services, products and solutions for utilities and process control.

Potential to improve the CRF across the solvent extraction industry segment by 25 – 30% by bridging gaps in condensate recovery system.

Right design of condensate and flash steam by separating high and low pressure condensate
Use of thermocompressor system to recover flash steam
Improving Steam Systems in the Solvent Extraction Industry

Energy Services for the Solvent Extraction Industry
Forbes Marshall provides services to help build reliable, energy efficient utility systems for the process industry thereby achieving new benchmarks.

1. Basic and Detail Engineering
2. Project Management
3. Steam System Design Hazop
4. Cogen Feasibility and Engineering
5. Stress Analysis
6. Process Energy Optimisation with Automation
7. Steam System Training
8. Energy Audits
9. Safety Audits
10. De-bottleneck Audits
11. Energy Management System Audits
12. Steam System Management
Forbes Marshall Helps Reduce Energy Consumption

Steam system automation of Desolventising Toaster (DT) has enabled improve hexane recovery and precise control of moisture levels at 10% in DOC. This has helped us achieve the best in industry specific fuel consumption of 282 kg of Husk / Ton of Rice Bran Oil produced.

Leading Rice Bran SEP plant in Eastern India

We are currently maintaining 78%+ Boiler efficiency with Effimax the online monitoring system, which has helped us in improving fuel combustion efficiency in boiler with fuel savings of 5%

An American global food process company

Forbes Marshall steam systems have helped us achieve 17% reduction on annual fuel bills with a sustained specific fuel consumption of 300 kg of husk / ton of seeds crushed. Automation of DT has helped maintain consistent quality of DOC and improved hexane recovery factor. We are utilising flash steam in the distillation process unit with the thermocompressor system. Condensate and remaining flash steam is sent to feedwater tank which has improved our boiler feedwater temperature by 20 °C.

Leading Soya SEP plants in Western India

A sustained savings of 18% has helped us achieve effective production throughput of 300TPD. Forbes Marshall steam systems have helped us maintain 100% system uptime at all times.

Manufacturer of Rice Oil in Eastern India

We have achieved a reduction of specific fuel consumption from 61 kg coal/ MT to 56 kg coal/ MT. This reduction is a result of implementation and installation of the Forbes Marshall steam system.

A Leading Manufacturer of Cotton Seeds in Maharashtra

Forbes Marshall has designed and supplied our steam system. We are able to achieve specific fuel consumption of 860 kg of husk /MT of seed crushed, departmental metering enables us monitor steam consumption on sustained basis.

A Multinational Food Processing Company

Forbes Marshall
Krohne Marshall
Forbes Marshall Arca
Codel International
Forbes Solar
Forbes Vyncke
Forbes Marshall Steam Systems

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Solutions for Steam and Process Control In Solvent Extraction Process