Brewery and Beverage Industry
Steam and Process Control Solutions
Brewery and Beverage Industry

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 in steam engineering and process control enables us to engineer customised systems that improve manufacturing processes, conserve energy and are environmentally sustainable.

Gaps and Opportunities in Steam Systems

Specific Energy Consumption in Beverages

Energy Savings Potential 21%

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<th>Improving Steam to Fuel Ratio 13%</th>
<th>Reducing Process Steam Consumption 8%</th>
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<tr>
<td>Optimising Boiler Efficiency 7%</td>
<td>Condensate Recovery 6%</td>
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<td>Steam Trapping 4%</td>
<td>Arrusting Leakages 1%</td>
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<td>Right Pressure 2%</td>
<td>Temperature Control 1%</td>
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Specific Energy Consumption in Brewery

*Above values are indicative based on our survey across the industry segment*
Improving Steam Systems in Brewery And Beverages 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

Forbes Marshall has helped us to bring down specific fuel consumption from 33 to 20 litres FO/KL of brew through steam system optimisation with pressure and temperature control, trap selection, good engineering practices and heat recovery systems. This makes us one of the most energy efficient breweries in the country.

#### Leading Brewery Plant in Maharashtra, India

High levels of steam system reliability and training on maintenance practices by Forbes Marshall helps us achieve our benchmark thermal efficiency of 120 lit of beverage per KL of fuel oil.

#### Leading Brewery Plant in South India

We are able to meet global standard of specific energy consumption (5 litres of beverage per 1000 Kcal of energy input) by implementing energy conservation solutions from Forbes Marshall.

#### A Global Brewery

We have been able to achieve uninterrupted production output at rated capacity with a specific fuel consumption of 88 kg of husk per KI of brew. Design and supply of the steam system by Forbes Marshall has enabled us achieve a sustained performance.

#### World's Second Largest Beverage Company

With 16 condensate recovery systems, 85% condensate recovery factor and an overall uptime of close to 100%, we sustain energy efficiency of 118 litre of beverage per KL of furnace oil. The complete steam system has been designed and supplied by Forbes Marshall.

#### A German Juice Brand

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