

Background:**Larsen & Toubro Limited**

Larsen & Toubro Limited is a 4 billion USD technology, engineering and construction company, with global operations. It is one of the largest and most respected companies in India's private sector.

A strong, customer-focussed approach and the constant quest for top-class quality have enabled L&T to attain and sustain leadership in its major lines of business across seven decades.

Mitsubishi Heavy Industries

Mitsubishi Heavy Industries, Ltd. (MHI), headquartered in Tokyo, Japan, is one of the world's leading heavy machinery manufacturers, with consolidated sales of around USD 25 billion. MHI's diverse lineup of products and services encompass shipbuilding, power plants, chemical plants, environmental equipment, steel structures, industrial and general machinery, aircraft, space rocketry and air-conditioning systems.

Supercritical pressure coal-fired power generation uses higher steam temperatures and pressures than sub-critical pressure power generation, and is more fuel-efficient and environment friendly. By reducing coal consumption relative to power output, carbon dioxide (CO₂) emissions can be reduced roughly by 2.5%. Supercritical type generation requires more sophisticated technology in equipment design to withstand the high temperature and pressure levels. Machining of high-strength component materials is a complex task. MHI has vast experience with