

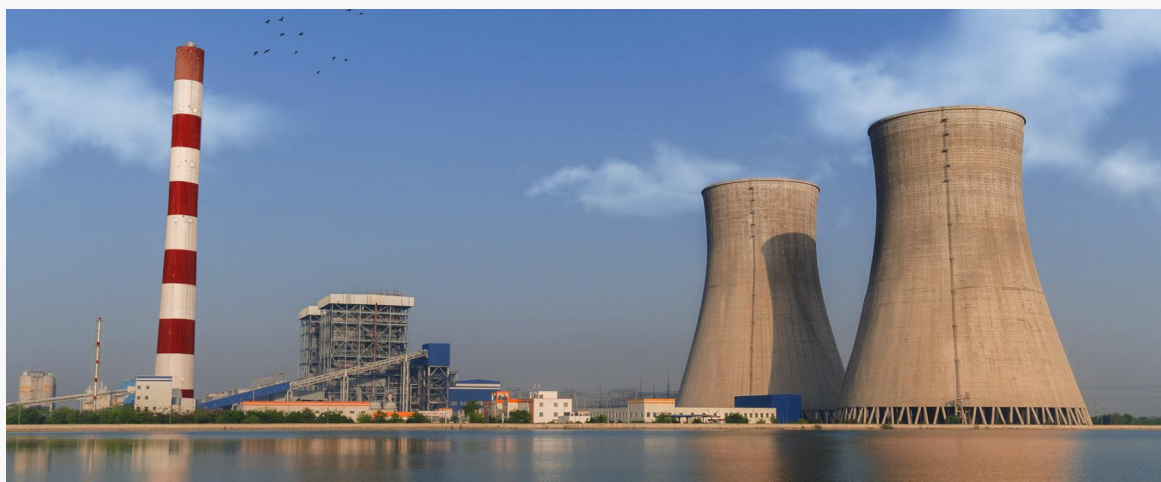
Jhajjar Power Limited

Effects of climate change have resulted in more than 700¹ heat waves in India in the last five decades, thereby increasing power demand as citizens purchase more air conditioners. This power demand is currently being met majorly through coal, a resource abundantly available in India. India's reliance on coal shall continue in the near future given the surging power demand and the cost effectiveness of coal-based electricity.

In the face of these issues, it is necessary for coal based power plants to operate efficiently as well as ensure compliance with the environmental norms. We are proud to say that our sole thermal power plant, JPL, is one of the most efficiently

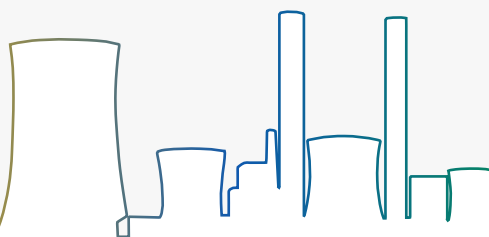
operated thermal power assets in north India. JPL, a supercritical plant with a generation capacity of 1,320MW, is the first and only thermal plant in north India to be equipped with a Flue Gas Desulphurisation (FGD) unit, a hybrid Electrostatic Precipitator and Fabric Filter. These facilities are accompanied by low Nitrogen Oxide (NOx) burners, a zero water discharge system and 100% ash and gypsum utilisation along with waste management processes that are tangible steps towards a circular economy.

In addition, concrete steps are also being taken to make JPL's thermal power as 'green' as possible with various environment and sustainability initiatives.



Efforts Towards Biomass Co-firing

Over the last fiscal year, JPL has made significant strides in its energy transition endeavours, particularly through the increased utilisation of biomass co-firing. This consistent uptick in biomass co-firing over the last year has been made possible by effectively addressing numerous process and supply chain challenges. JPL stands at the forefront of efforts to maximise biomass consumption in India and is amongst the TPPs consuming highest biomass in FY 2023-24 i.e. ~79,511 metric tonnes. Our trajectory of improvement positions us well to meet statutory requirements for biomass usage and also a frontrunner in abetting carbon emission through biomass co-firing. The various innovative measures undertaken at JPL have resulted in improved energy efficiency, increased safety, reduced operational risks and reliable operations.



1. <https://edition.cnn.com/2024/01/06/india/extreme-heat-india-climate-ac-intl-hnk/index.html>

