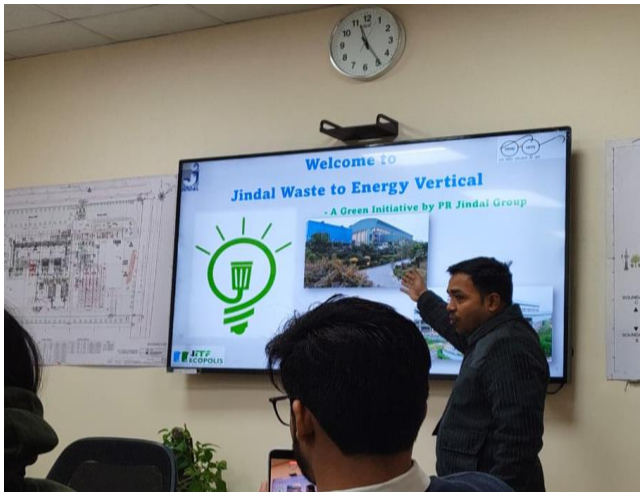
Field Visit to Tehkhand Waste-to-Energy Plant, New Delhi on 20th December 2025.

Students of M.Tech (Renewable Energy Engineering and Management), M.Sc (Climate Science and Policy) and MBA (Sustainability Management) from TERI School of Advanced Studies were taken for a visit on 20th December 2025 to municipal solid waste based Waste-to-Energy (WtE) plant at Tehkhand, New Delhi.

The visit offered valuable insights into large-scale urban waste management. Handling nearly 2000 tonnes of waste per day, the plant demonstrates how waste management has become a critical component of urban infrastructure. The facility follows a closed-loop water management system, sourcing operational water from a nearby sewage treatment plant (STP) and operating under Zero Liquid Discharge (ZLD), with all waste water treated and reused internally.

The processes of municipal solid waste segregation before being converted into electricity through controlled combustion and a steam turbine system reducing landfill dependence were demonstrated. The visit also exposed the students to strong circular economy practices including utilisation of fly ash for bricks, bottom ash in road construction, biomass pelletisation, plastic-to-oil conversion via pyrolysis, and biogas recovery.

The plant is operated and managed by the Jindal Group under a public–private partnership.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