

Overview

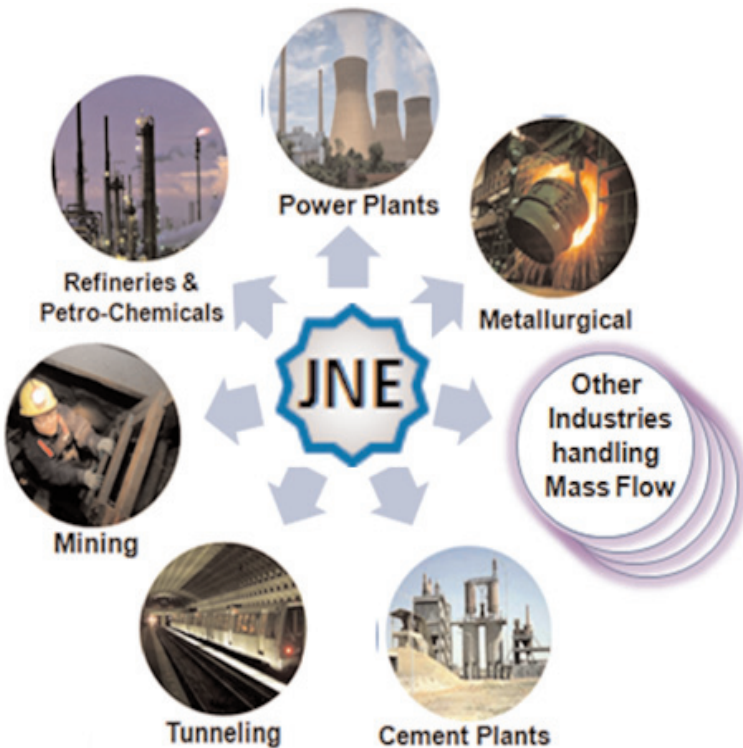
Industry:
Industrial/Infrastructure

Focus:
EPCM Services

Intelligent and Integrated Solution for Energy Efficiency & Cleaner Production

JNE Consulting is committed to full-service, multi-disciplinary engineering, procurement, and construction management services globally. The Group of Companies recently added capabilities in Mine and Tunnel Ventilation under the umbrella of an Energy and Environment Initiative complementing its overall drive for Energy Efficiency and Cleaner Production. The objective is to be a Total Solution provider with excellence in design, engineering, and implementing quality projects for achieving Energy Efficiency while balancing Environmental demands for Industries essential to sustain a country's growth (Steel, Power, Petrochemical, Cement etc.), as well as Infrastructure projects (Underground Mine and Tunnel Ventilation).

With the Energy and Environment focus and synergies between JNE Consulting and JNE Automation the Group is extremely well positioned to fulfilling the requirements meeting energy savings and cleaner production mandates as well as achieving sustainable development goals including Corporate Social Responsibility expectations.



Noise and vibration in a plant draft system and in a mine or tunnel fan system are the primary indicators of waste of energy because of excessive turbulence and non-uniform airflow distribution. Aerodynamic modeling and acoustical engineering principles (aero-acoustics) are used to eliminate these problems and as a result reduce system resistance. The outcome is savings in the power requirements and minimization of noise pollution, which is a health and safety hazard as well. Moreover, uniform airflow with low turbulence entry to environmental equipment (e.g., SCR, ESP, and FGD) improves their performance, such as meeting designed level of dust/flyash collection or achieving expected level of eliminating SO₂ emission and results in better process control. The optimization process involves dynamic simulation of airflow using sophisticated and industry standard CFD tools such as ANSYS CFX or FLUENT.