



“Technology will be a key driver in achieving sustainability”

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Changing role of suppliers of technology/equipment

Growing environmental awareness due to natural and man-made disasters, apart from strict pollution control norms, has helped the chemical industry (and other industries) make a decisive move towards green and sustainable solutions. Most companies have started undertaking efforts for proper segregation & management of waste, effluent treatment, and ensuring reduced greenhouse emissions as well as energy consumption, with an aim to reduce their environmental footprint. The technology/equipment suppliers, in turn, need to develop products that can address these expectations, and achieve all-round development.

Technology and sustainability

Technology will be a key driver in achieving sustainability. Efficient processing to get better productivity/conversion from same resources will require better designed equipment and technology. New technologies/processes will be required to recycle/reuse resources, byproducts and effluents.

At HRS, we are working on few key projects that are in the areas of reducing emissions to environment by better vapour condensation/recovery, energy savings with heat recovery from all types of processes, thereby reducing environmental impact due to high temperature exhausts/effluents. In addition, projects pertaining to thermal treatment of various domestic and industrial effluent for further processing into fuel, thermal evaporation combined with power generation to treat municipal/industrial wastewater are also undertaken.

Meeting regulatory requirements

Today, environment protection is a global cause and everyone is more educated, concerned and responsive to any adverse impact on environment by their actions. Regulations and initiatives (like SHE, Responsible Care, Recycle, Star Rating, etc) have been instrumental in helping the industry become more conscious about the need to evaluate and make their processes energy-efficient, low on pollution and sustainable. In turn, there is similar expectation from technology/equipment suppliers and those who can develop/have technology, which enables industry achieve these goals.

Sustainable development and India

Economies cannot progress at the cost of the environment. Exploitation of environment/natural resources, including land and water, due to heavy industrial investment can be detrimental in the long term. Successful sustainable development in the 21st Century will undoubtedly require rising economies like India & China to adopt measures and new technology, which not only helps to reduce energy consumption & pollution but also provides long-term sustainability of environment.

Efficient processing technology

Sustainability will need efficient processing technology to ensure optimum use of resources with minimal wastage, impact on environment and conservation of energy. We also need new technology to harness resources that are renewable, save on non-renewables, recycle/reuse products, reduce environmental footprint and create a sustainable ecology.