

Together we can protect our planet.



*Envirex India Pvt. Ltd.*

Envirex India is part of the Chemtrols Group which has interests in Process Control, Instrumentation & Automation, Manufacturing and CleanTech. With an impeccable track record spanning 38 years, the Chemtrols Group presently employs over 800 people in multiple manufacturing locations and offices in India and Abroad.

Envirex India Pvt. Ltd. is an environment conscious organization providing total eco-solutions that helps in maintaining an ecological balance, abating pollution and preserving the natural environment. Envirex India from the time of its inception has been making steady progress in developing products and solutions that halt the degeneration of the planet while also exploring solutions in alternate and sustainable energy.



## BIOMASS Biogas Plants

“Biogas” typically refers to gas generated from the organic fraction of wastes under anaerobic conditions. Biogas can be employed as a fuel for cooking, in boilers for water heating & steam generation, fuel for vehicles or as fuel for electricity generation. The remnant digestate sludge can be treated & used as a bio-fertilizer in gardening, landscaping, etc.



## Sewage Gas to Power Plants

**Envirex** is a pioneer in India for indigenously designing, installing, commissioning & operating /maintaining biogas based power plants using biogas generated by an aerobic decomposition of sludge/slurry waste. Envirex offers a comprehensive package including design, detailed engineering, supply of equipment, testing, erection and commissioning / start up of the plant.

## Gas Storage Systems – Double Membrane Gas Holder

**Envirex** offers the 'state of the art' inflatable double membrane gas storage systems for efficient storage of gas in chemical, process and biogas plants. Such storage systems find wide application in bio-digesters, gas storage tank tops and gas proof covering for fermentation tanks. These are also used in specially designed shapes for advertisement purposes besides floating balloons for remote sensing & search operations.



## Biomass to Energy

Biomass fuels like wood, agricultural waste and certain municipal wastes can be gasified by direct combustion to produce heat and power. Our capabilities to extract this green energy extend over design, supply, erection, installation, commissioning, operation & maintenance on a turnkey basis.

## Solid Waste to Compost

We design, manufacture, supply, install & commission all equipment required for Organic Composting plants using feed stock constituting Municipal Solid Waste & other green wastes. Where required & feasible, we are capable of providing integrated MSW treatment and disposal systems that employ Biogas based renewable energy generation technologies. We also render consultancy and tailor made solutions for specific applications in this field.





## Wet Scrubbers

We offer customized scrubbing systems for removal of H<sub>2</sub>S from biogas. Biogas is known to contain, H<sub>2</sub>S in varying strengths depending upon the source of feed stock used and the process control used in the operation of STP/ Anaerobic Digestion processes. H<sub>2</sub>S is a highly toxic gas which, in the presence of moisture, becomes highly corrosive, so much so that it penetrates the cement concrete layers to corrode the metallic reinforcements besides causing severe damage to the gas engine components. It is therefore important to control H<sub>2</sub>S, within levels permitted by the gas engine manufacturers. **Envirex** also provides scrubbing systems for the remediation of air pollutants like Hcl, HF, NH<sub>3</sub>, Oxides of Nitrogen, Sulphur & the like.

We specialize in supply, installation & commissioning of:

- Venturi Scrubbers
- Fume Extraction and Scrubbing
- Packed Bed Scrubbers (Absorbers)
- Co-current Scrubbers and parallel flow Scrubbers
- Gas evacuation and cleaning systems

## Process Gas Dehumidifiers

**Envirex** offers indigenously developed dehumidification/gas, drying systems comprising of heat exchangers and packaged refrigeration units.

Such tailor made systems will consist of a chilled water unit of appropriate capacity and a compact heat exchanger specially developed for such applications. These dryers are suitable for continuous operation without any necessity of having standby like desiccant based gas dryers.



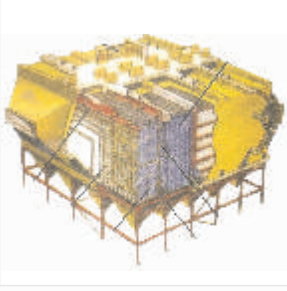
## Moisture Traps

**Envirex** offers moisture traps/drip traps for removal of entrained moisture & other foreign materials normally found in a gas stream. Such traps can be provided in a variety of material of construction depending on specific requirement.

Such moisture traps find wide application in biogas plants, biogas power plants, chemical process industries and a host of other such industries.



## Electrostatic Precipitator



**Envirex** caters to the demands of Industries in separation of dust particles from the process gas, by specially designed electrostatic precipitators characterized by the following features:

- Low resistance
- Well distributed air-flow division
- Stable during Operation
- High Efficiency

## Bag Filter

High quality bag filter system from **Envirex** ensures minimum pressure drop, large flow rate and high stability. It has a unique design feature of snap ring bag fixing, which eliminates cumbersome arrangement of bolting & clamping and prevents the filter bags from falling. The other advantage is that the bags can be accessed from the clean air side.



## Dust Extraction System



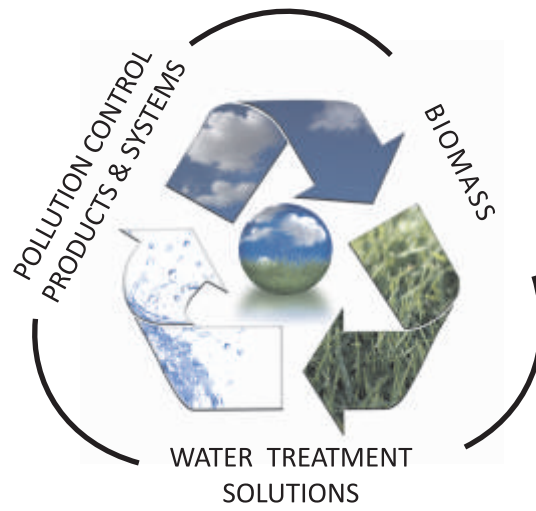
**Envirex** provides a unique combination of filtration mechanisms to deliver total dust extraction systems for a wide spectrum of industries. The dust is drawn through ID fans and conveyed through ESP/ Bag filters/ Cyclones etc. The system ensures that the dust is removed with minimum disturbance of the running system with maximum efficiency and meeting the pollution norms.

## Water Treatment Solutions

**Envirex** has tied up with a leading technology provider for water and waste water treatment solutions.

We are now capable of delivering a range of filtration systems to facilitate the smooth functioning of water and waste water treatment systems - Reverse Osmosis systems, Ultra filtration systems, Pressure sand filters, Activated carbon filters, etc. Besides, we offer specially designed, cost-effective packaged STP systems and advanced treatment systems, like MBR. We are also well equipped to provide complete systems, including integral components there of in any water and waste water treatment systems across a broad class of industries, commercial and municipalities.





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