



## Biogas treatment and purification Technology

### OUR SOLUTION IS CENTERED ON OPTIMIZING THE FOOTPRINT.

Our system for the treatment of bio-digester gas has a range of throughput capacity of 50 to 1000 SCMPH (standard cubic meters per hour) we briefly describe major steps as follows:

The raw biogas is evacuated from the source Buffer Storage Tank and blown from the Tank into our Biogas Dehydration followed by Biogas Desulfurization systems. Once hydrogen sulphide and water are removed from the biogas, we then channel the product towards the decarbonation system.

The biogas goes through a compact Decarbonation System to separate the carbon dioxide from the methane. The carbon dioxide is stored in a storage a buffer tank for further use while the biomethane is compressed and stored in a Pressurized Storage Tank(s) from which tank trucks can eventually be filled. Should a suitable pipe line be located in reasonable vicinity, it is instead metered and injected directly into the utility network.

Our innovation relies on innovative desulfurization-dehydrating station combined with high performance absorption modules which involve less space, less auxiliaries, piping and ducts resulting into lower costs, and lower complexity of operations.

The overall system presents the following advantages:

- compact
- easy to operate
- cost effective
- can be modular and mobile
- consume considerably less energy
- more economical compared to other processes
- no emissions
- no effluents
- can be containerized
- outdoor installation possible
- easy monitoring and operation
- little maintenance required

