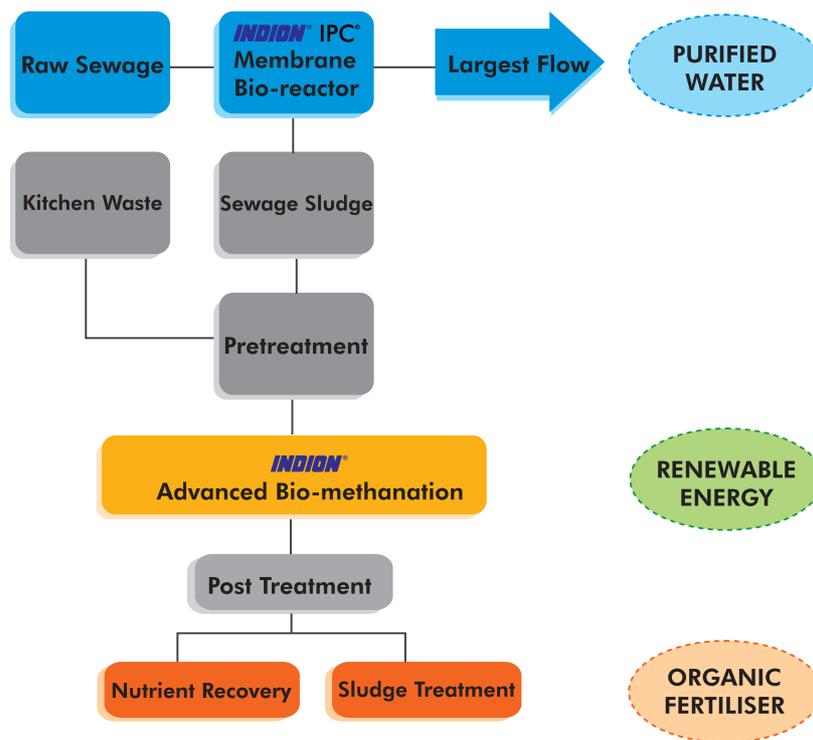


ANDICOS[®] Waste to Energy

Advanced Integrated Process for Energy Recovery through Integration of Waste Water and Organic Solid Waste



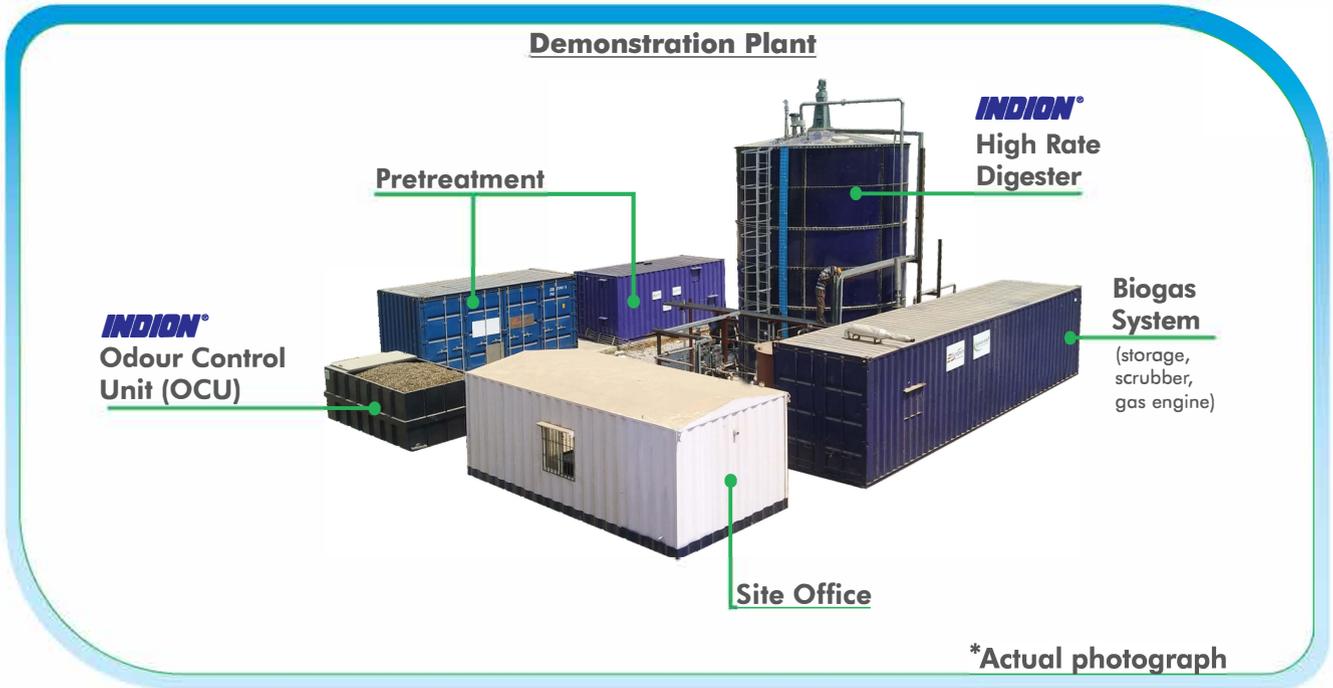
The ANDICOS design integrates state-of-the-art technologies like INDION IPC MBR and INDION Advanced Bio-methanation process to treat a combination of solid waste generated in sewage treatment process and organic kitchen waste generated in homes & communities.

The combined waste is first homogenised in a pretreatment process followed by bio-methanation in INDION Advanced Bio-methanation Reactor. The resultant biogas is further polished in a post treatment process to produce energy using biogas engine. Alternatively, the biogas can be further purified and compressed for use as an alternative fuel to compressed natural gas (CNG) or liquefied compressed natural gas (LNG) or used as heat source for producing hot water. The system is integrated with INDION Odour Control System. The heat generated from the biogas is used to dry the excess sludge to produce organic fertiliser that meets the required hygiene standards for use in agriculture and landscaping.

Features

- Resource recovery from liquid & solid waste
 - Purified water
 - Renewable energy
 - Organic fertiliser
- Investment payback between 3 to 5 years
- Modular system for centralised & decentralised use
- Customised & modular systems for municipal, institutions & communities to treat faecal sludge and/or in combination with organic waste

ANDICOS® Waste to Energy



The above plant is designed to treat approximately 1000 kg of organic waste generated by a community kitchen and 2 – 6 m³ of sewage sludge per day. It is expected to produce 20 KW/h of electrical power and about 1.35 tonnes per day of organically rich fertiliser.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.

INDION is the registered trademark of Ion Exchange (India) Ltd.

ANDICOS is a concept developed by  **vito**. The technology is developed in association with Ion Exchange & Europem and commercialised by Ion Exchange (India) Ltd.



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