METHAGEN
PROJECT IN TURKEY

PROJECT DESCRIPTION

A global conglomerate operating in the food & beverage industry, organic waste consisting of potato and corn from their Manisa facility is being collected and transformed into a source of thermal energy. Turning waste into electricity is part of the Group's long-term commitment to support global decarbonization.

SYSADVANCE, a longtime supplier of the Group, was selected to install its METHAGEN_AD technology to purify biogas and produce biomethane/RNG which will be injected into the gas grid of the Manisa facility. Moving forward, the biogenic CO_2 from the METHAGEN off gas has the potential to be liquefied for Carbon Capture and Utilization (CCU).

The METHAGEN plant has been carefully designed & built to reach the highest performance specifications in the biogas upgrading industry. The fine design details of the plant range from the smallest components to appropriate characterization of the adsorbent media, all conveyed into a rigorous automation system to ensure precise Pressure Swing Adsorption (PSA) gas purification cycles.



PROJECT DATA

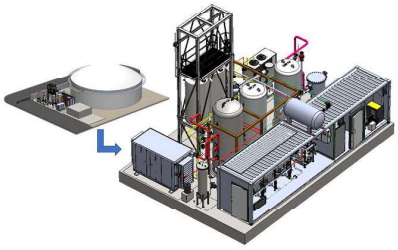
- Location: Manisa, Turkey
- Commissioning: Q3 2022

UNIQUENESS OF THE PROJECT

- Methane recovery: >99.5% with 98% purity
- Energy consumption: 0.0068kWh/SCF | (0.239 kWh/Nm³)
- Availability >97.5% (maintenance included)
- Highest ROI

METHAGEN_AD KEY FEATURES

- Compliance with environmental emissions
- Followed strict HAZOP requirements
- Integration on a minimal footprint
- Extra functionalities such as THT odorization system



SYSADVANCE – North America Technologies, Inc
130 Brew St., Port Moody, BC V3H 0E3, CANADA
Antonio Saavedra, VP Business Development
antonio.saavedra@sysadvance.com | cell +1 (778) 938-0835

SYSADVANCE, SA
Rua Comendador Brandao 461, 4495-375 Povoa de Varzim, PORTUGAL
Joaquim Cunha, Sales Manager – Energy
joaquim.cunha@sysadvance.com | cell +351 939 478 872

Sysadvance is a proud member of:

www.sysadvance.com