© DAE GIL ENG

DAE GIL ENGINEERING

Bio Plant Creator





COMPANY DAE GIL ENG Co., Ltd. ADDRESS 44782, Yongjam-ro, Nam-gu, Ulsan, Korea

PRESIDENT Lee, Gyu Hong

SINCE 2023. 03. 09. CONTACT INFO T. +82 52-227-6200

F. +82 52-227-6202

daegileng@daegileng.co.kr

OUR TO DO

BUSINESS AREA



OT
Organic Resource
Upcycling Design

02Contruction

03Operation

04Upgrading & Remodeling

WHAT WE DO

ORGANIZATION

DAE GIL ENG accompanying outstanding engineers and technology always does the best to meet the needs of customers and is all set to provide the best efficiency and value.



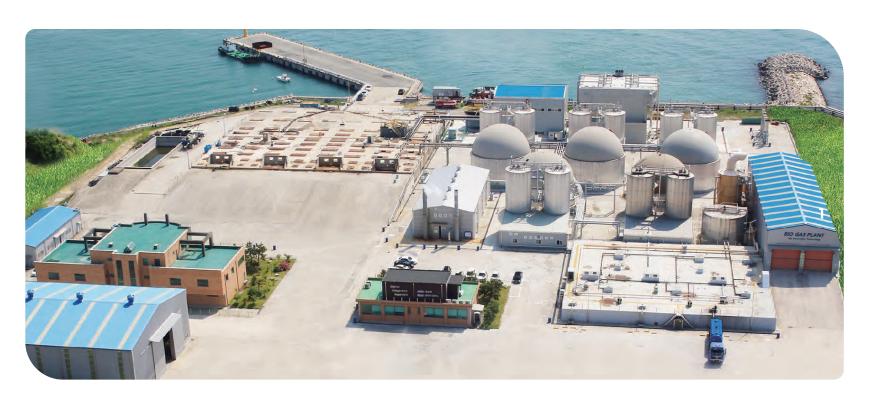
OUR FAMILY

BIT

Organic waste upcycling system engineering and operating, and manufacturing and R&D of BIOGAS.

BIT boosting up ESG management with the local community goes global and never stops innovation and challenge.

BIT makes the technology better and nicer and commits to providing a better and nicer life for all.



OUR FAMILY

NONG BI

manufacturing, R&D, and marketing of Liquid Fertilizers.

NB accompanying eco-friendly technology makes non-stop growth in the market and its commitment to reducing CO2.

161 retailers in Korea

193,297

Cumulative quantity from 2020 to 2023

Global export

- ·Vietnam
- ·The Philiphines



CEO VISION

CEO Message

DAE GIL ENG succeeds in the heritage and technology of biogas from BIT that can provide customers with a full package, starting from project plan and research, design, construction, and EPIC, plus management, advisory, maintenance, and upgrading & remodeling. Also, DAE GIL ENG is ready to make progress in manufacturing sodium carbonate (NaHCo3) from biogas.

Furthermore, DAE GIL ENG is planning to produce energy from marine waste soon or later. Lee, Gyu Hong (CEO of DAE GIL ENG) has PhD in environmental science and is a professional engineer in waste disposal. also, He is a retired public official and has made it to produce 4 kinds multi fertilizer and national sales. DAE GIL ENG is planning to build additional digesters for BIT and facilities to manufacture sodium carbonate (NaHCo3) and make sales in Korea and globally as well. Plus, DAE GIL ENGis planning to make investment suggestions for 16 major BIOGAS plants in Korea and optional application of Biogas.

A new law about boosting up Biogas in Korea has been proclaimed, DAE GIL ENG will sophisticated the technology of manufacturing Biogas and build the perfect system to use CO2 and methane each out of biogas including sodium carbonate (NaHCo3) and hydrogen (H2).

DAE GIL ENG is fully ready to make better progress and go global to become a leading company in the Biogas business.

CEO Lee, Gyu Hong

DAE GIL ENG HISTORY

CERTIFICATIONS

DAE GIL ENG is an engineering company that inherits the technology from BIT so that can provide customers full package including design, construction, operation, and upgrading & remodeling. DAE GIL ENG is fully ready to make better progress and go global.

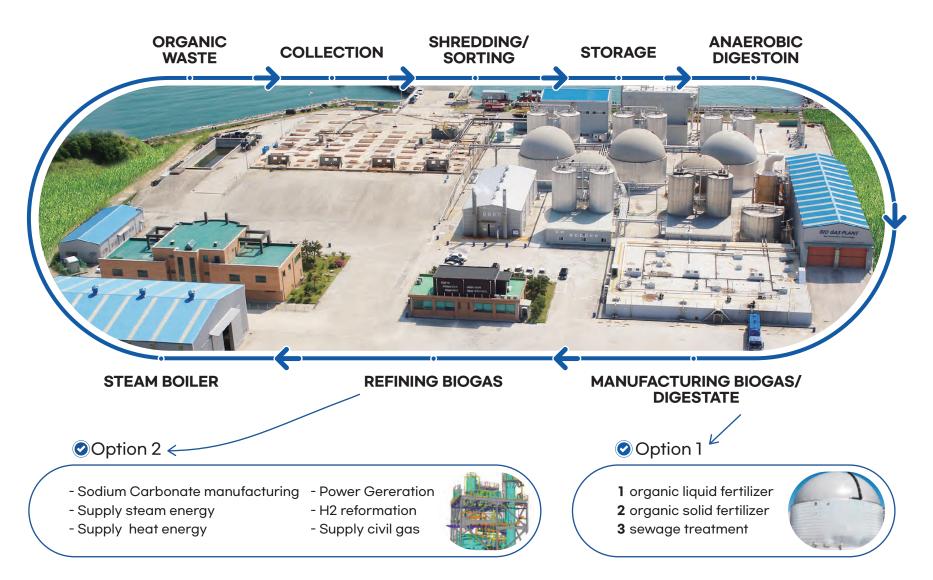






BIO TECHNOLOGY

BIT PROCESS



OPTION

ECO-FRIENDLY FERTILIZER

Option 1

DAE GIL ENG makes progress in meeting various global needs and commits to R&D.

over 150 multiple microorganisms and enzyme combination makes synergy to improve the condition of the soil and help grow plants.



OPTION

BIO ENERGY

Option 2

- Sodium Carbonate manufacturing
- Supply steam energy
- Supply heat energy
- Power Gereration
- H2 reformation
- Supply civil gas

Multiple options to meet customers needs.







OUR TECHNOLOGY

BIT ANAEROBIC DIGESTER

HRT (Hydraulic Retention Time)

5~10 DAYS

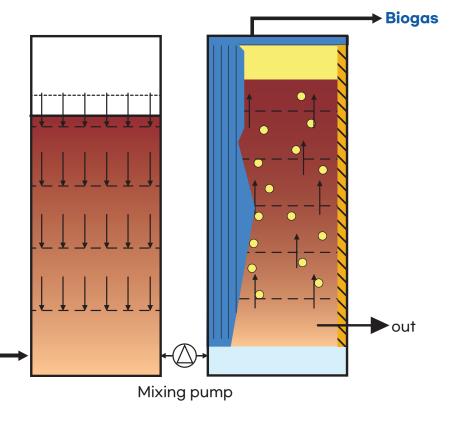
Digestive efficiency

70%↑

Double cylinder tower type using non-stop circulation through water level that is less energy consumable.

Applying multi plate that makes digestion better and faster (70% above).

Minimum digestion time (5~10days), saving cost, automatic operation, simple maintenance input



OUR TECHNOLOGY

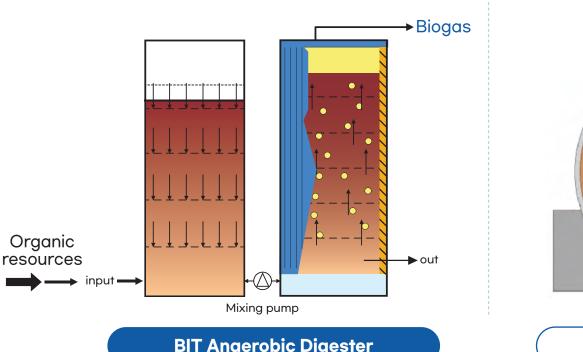
BIT ANAEROBIC DIGESTER VS CONVENTIONAL DIGESTER

BIT Anaerobic Digester Conventional Digester Digester types Digester schematic diagram out input : Impulse mixing system Central stirrer system Mixing type HRT 5~10 days 15~30 days Digestive efficiency 70% ↑ 40% Foam No Yes Sediment discharge Yes No 0.6m3 CH4/kg VS input 0.35m3 CH4/kg VS input Methane gas production rate

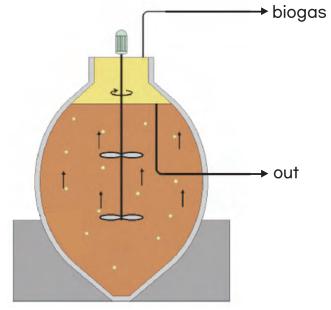
TECHNOLOGICAL INNOVATION

UPGRADING CONVENTIONAL DIGESTER

Upgrading conventional Digester to improve digestive efficiency leads to reaching the ultimate efficiency.



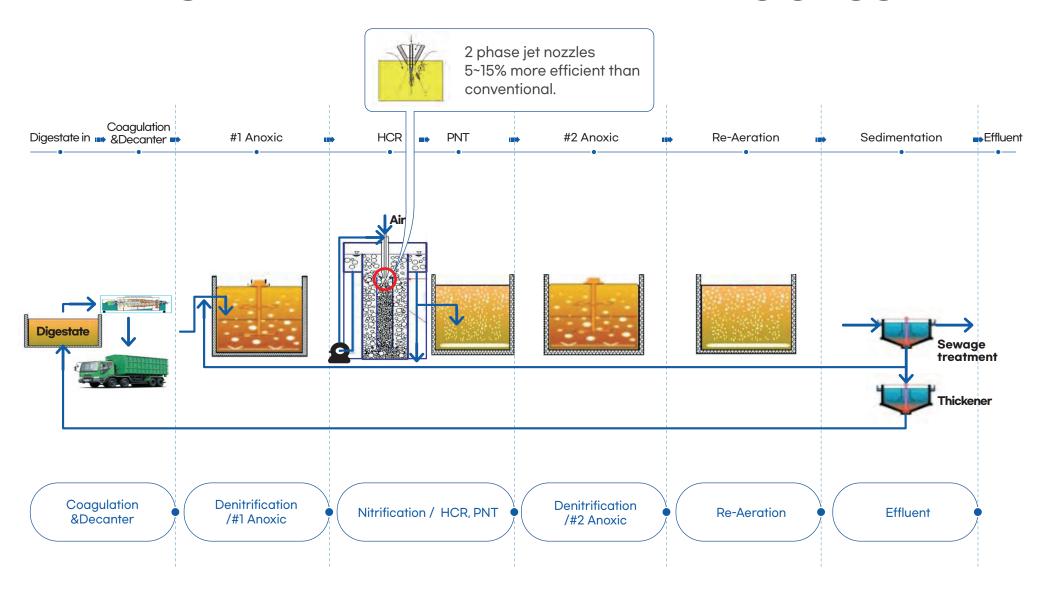
BIT Anaerobic Digester



Conventional Digester

PROCESS

WASTEWATER TREATMENT PROCESS





DAE GIL ENG succeeds the heritage and technology of biogas from BIT that can provide customers with a full package including design, construction, and operation, and upgrading & remodeling.

DAE GIL ENG is fully ready to make better progress and go global to become a leading company in the Biogas business.

® DAE GIL ENG