



Opportunity Day Q1-2023

May 25, 2023

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Content

- ① Business Overview
- ② Financial Highlights
- ③ Business Outlook





Part 1 : Business Overview

**MR.SAITHSIRI
SAKSITTHISEREEKUL**
CEO / Director / EXCOM

- Experience**
- Experienced as top management in various businesses (Engineering , Energy and Feed Stock Supply)

**MR. PRASERT
BUNSUMPUN**
Chairman / Independent Director

- Experience**
- Board director in other listed companies in Thailand
 - Experienced as top management in various businesses (Energy , Petro-Chemical , and Chemical)

**MRS.TIPSUDA
THAVARAMARA**
Independent Director /
Audit Committee

- Experience**
- Director of Digital Transaction Development Department
 - Experienced as top management in various government entities.

**MRS. NARUMON
SAKSITTHISEREEKUL**
Director

- Experience**
- Experienced in management of renewable energy business)

**MS. NINTITA
LOETRUANGSUPHAKUN**
Director / EXCOM

- Experience**
- Experienced as top management in various businesses (Fintech ,Trading , Energy)

**Assoc. Prof. Dr. MONTREE
SOCATIYANURAK**
Independent Director / Chairman of
Audit Committee / Chairman of
Nomination and Remuneration
Committee

- Experience**
- Board director in other listed companies in Thailand
 - Experienced as top management in various businesses (Education , Management , Chemical)

**MR.APICHA
LIMMETHEE**
Independent Director / Audit
Committee / Nomination and
Remuneration Committee

- Experience**
- Teacher and director of syllabuses in university

**Asst.Prof. Dr. PAOPHAK
SIRISUK**
Director / Nomination and
Remuneration Committee

- Experience**
- Teacher and director of syllabuses in university





Saithsiri Saksitthisereekul
CEO / Director / EXCOM

Experienced in engineering business >15 years

Experienced in renewable energy business >10 years

Taranun Tuadaw
CCO / EXCOM

Experienced in renewable energy business for 10 years



Peeranat Tantichattanont
Business Development Director/EXCOM

Experienced in overseas renewable energy business for 10 years



Narumon Saksitthisereekul
Chief Sustainability Officer

Experienced in renewable energy business for 10 years



Wilasinee Salawasee
Acting. CFO

Experienced in Financial and Accounting Management for 15 years





CLOVER

We have achieved the Corporate Governance score at **"Very Good"**

Level of recognitions (4 stars) for 1st year



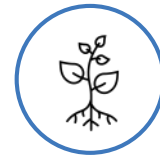
AGM Checklist year 2022 score at **100** Point



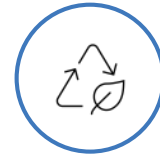
Vision

“ Being the leading organization that passes on the values from renewable energy to the world with sustainability ”

Mission



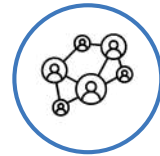
Invest in businesses and technologies in renewable energy, waste-to-energy, and other new technologies toward sustainable growth



Promote the use of energy crops, clean energy utilization and energy conservation practices



Enhance our workforce with culture of intellectual development and strengthen our competitiveness



Encourage share value of coexistence among stakeholders, communities and the environment with good governance for sustainable growth

2015
2016

2017
2018

2019

2020

2021

2022



Clover Power founded



COD biomass power plant CPL 4.9 MW



COD first power plant CV 9.4 MW (Biomass)



SBC and SBE signed EPC contract to build up Biomass Power plant 85 MW in Nakhon Sawan, which is first Bio complex and Bio Hub in Thailand



SBA has registered in Australia to build up sanitary landfill project



COD Waste to Energy CPX 2.0 MW



Acquired Cogeneration power plant SPP 7.36 MW



Community Biomass Power Plant 3 projects 19.8 MW



Acquired for the wood pellet plant in Vietnam (100,000 tpa.)

Power Plant Total 23.66 MW





Power Producer

- Generate and sell electricity from Biomass to energy, Waste to energy, Co-generation power plant and other renewable energy plant.
- Operation and Maintenance services



Fuel Supply

Sourcing, processing and trading biomass fuel and RDF in valued chain



Valued EPC

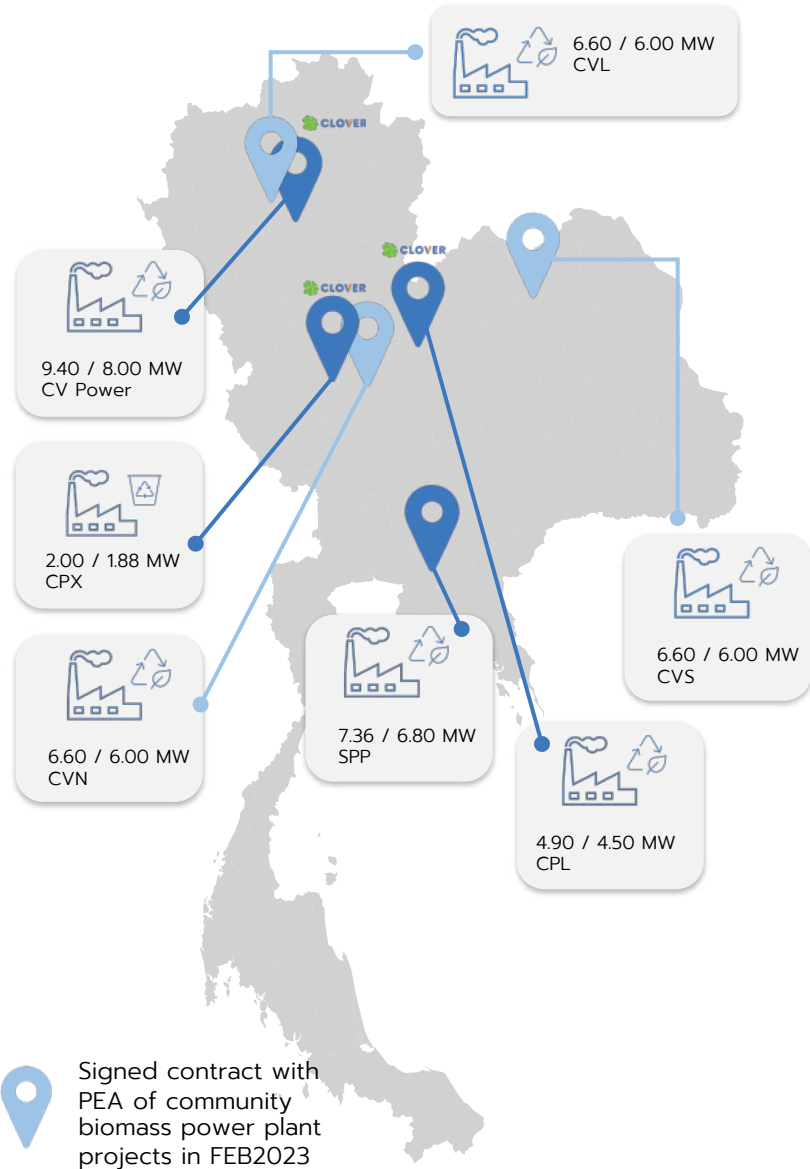
- Design, procurement, construction and installation renewable energy power plant and related infrastructure

Power Producer



- Generate and sell electricity from Biomass to energy, Waste to energy, Co-generation power plant and other renewable energy plant.
- Operation and Maintenance services





CV : Power Producer (23.66 MW)

Detail	CV	CPL	CPX	SPP
Project Picture				
Capacity / PPA	9.40 / 8.00 MW	4.90 / 4.50 MW	2.00 / 1.88 MW	7.36 / 6.80 MW
PPA (MW equity)	8.00 MW	4.50 MW	1.88 MW	6.80 MW
Type of fuel	Biomass	Biomass	RDF	Natural Gas
Buyer / Scheme	PEA / FiT	PEA / FiT	PEA / FiT	PEA / Adder
COD	5 Feb 2016	9 Aug 2018	30 Oct 2020	23 Jan 2020
Expiration date	4 Feb 2036 (~13 years left From the end of 2022)	8 Aug 2038 (~16 years left From the end of 2022)	30 Oct 2040 (~17 years left From the end of 2021)	automatically renew PPA every 5 years

NOTE : PPA Power Purchasing Agreement , COD : Commercial Operation Date



CVP

CPL



CPX

SPP



Fuel Supply

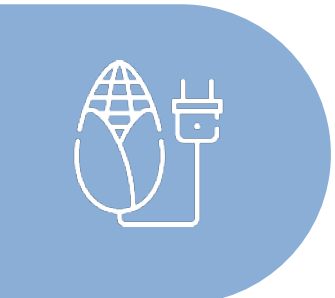


Sourcing, processing and trading biomass fuel and RDF in valued chain

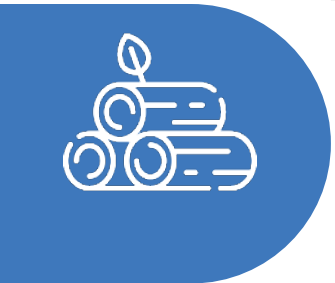




Plantation



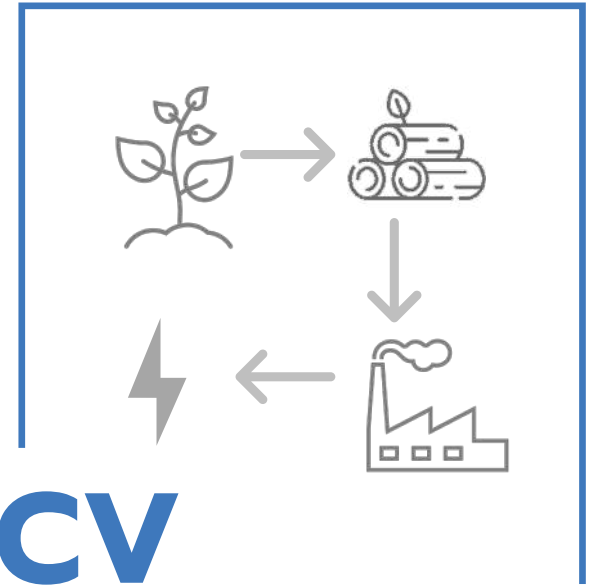
Biomass



Wood Pellet



RDF



CV

To proceed and supply renewable fuel entirely. Start with plantation/sorting to produce end products



DKC ENERGY

Installed Capacity 100,000 tpa

Wood Pellet Plant



CLOVER RECYCLE

Installed Capacity 50,000 tpa

RDF Plant



Valued EPC



Procurement, construction and installation the renewable energy power plants and infrastructure



SBANG

Well known as expert in design and construction steam thermal plants and other related systems for 15 years



RENEWABLE
ENERGY



ENERGY
CONSERVATION



GENERAL
CONSTRUCTION



MODULAR



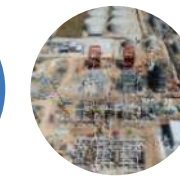
Design

- Designed by high performance software
- Select suitable technology with high performance



Procurement

- Power Plant equipment & balanced of plants
- Sourcing with wide range of technology & partners to fit with customers need



Operation and Maintenance services

Construction and Installation

- Specialize in construction and installation technique
- Follow up and quality control



Increase specialization and experience in EPC Turnkey services



Biomass in Nakornsawan

Capacity 85.0 MW + steam
in construction



CPX, Phichit

Capacity 2.00 MW
COD in October 2020



RTB, Songkhla

Capacity 9.90 MW
COD in Jul 2020



CPL, Phitsanulok

Capacity 4.90 MW
COD in August 2018



CV, Phare

Capacity 9.40 MW
COD February 2016



The Natural palm group

Capacity 9.40 MW + steam
COD in June 2012



Natural Electricity

Capacity 6.50 MW
COD in August 2014



APK Green Energy

Capacity 9.00 MW + steam
COD in March 2014

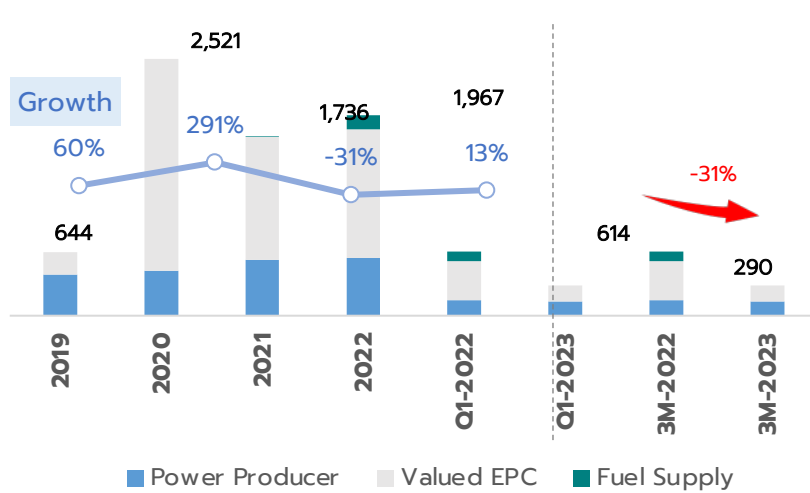
“ Let power plant owner build up your new power plants”



A person in a dark blue suit is holding a tablet. The background is a light blue gradient with various financial data visualizations overlaid, including bar charts, line graphs, and upward-pointing arrows. The text 'Part 2 : Financial Highlights' is displayed on the right side of the image.

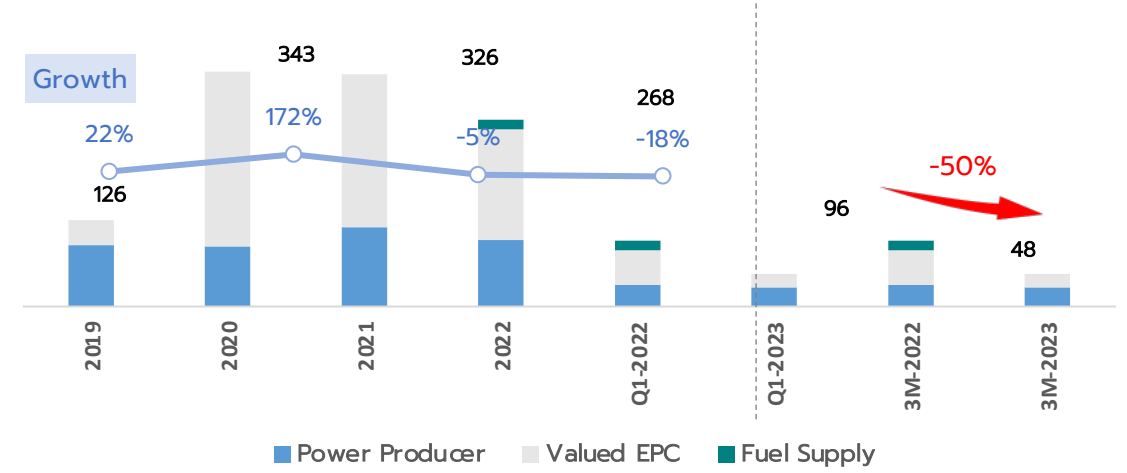
Part 2 : Financial Highlights

Revenue (million Baht)

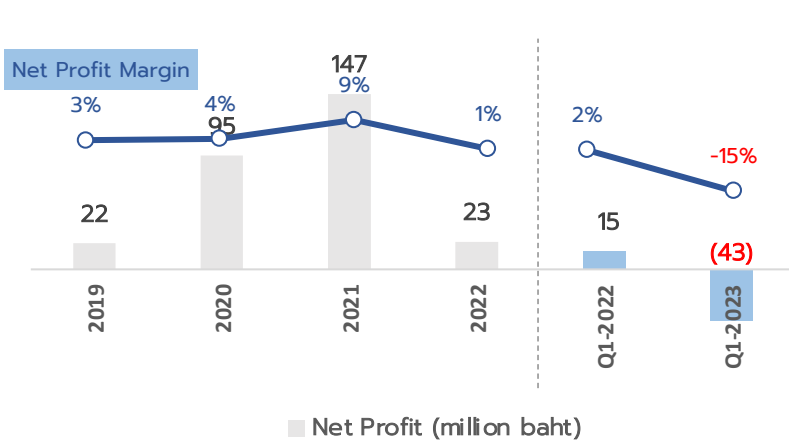


Revenue
 The revenue in Q1-2023 decreased mainly due to EPC projects which were during final period in each projects and there was no sale in Fuel supplies which was during production, therefore, the revenue was recognized less than Q1-2022 (decreased 31%).

Gross Profit (million Baht)

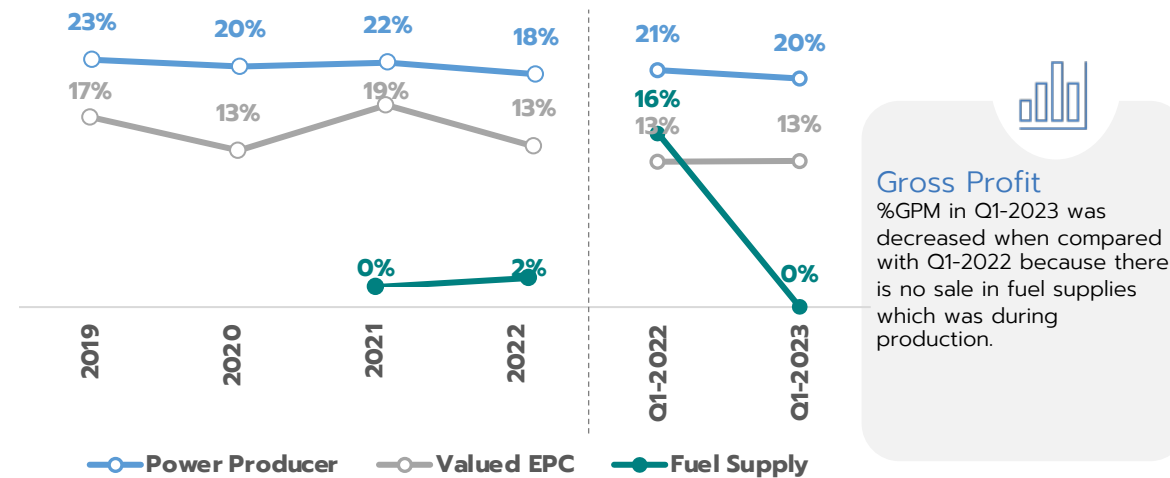


Net Profit (million Baht)



Net Profit
 Net profit in Q1-2023 was decreased to be loss 43 million (%NPM -15%) from Q1-2022 mainly because of delayed schedule, loss on exchange rate and NR.V.

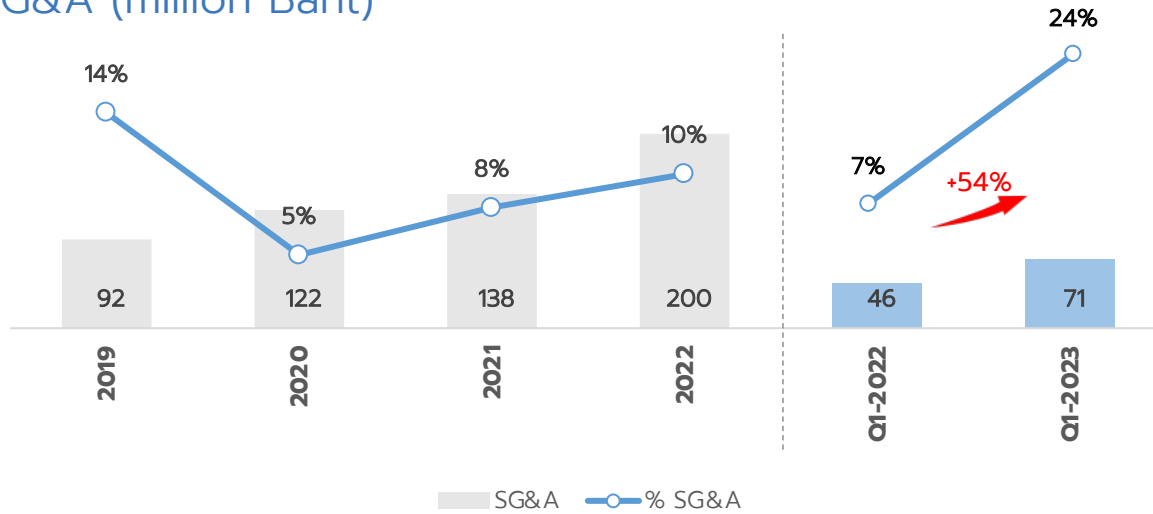
Gross Profit Margin (%)



Gross Profit
 %GPM in Q1-2023 was decreased when compared with Q1-2022 because there is no sale in fuel supplies which was during production.

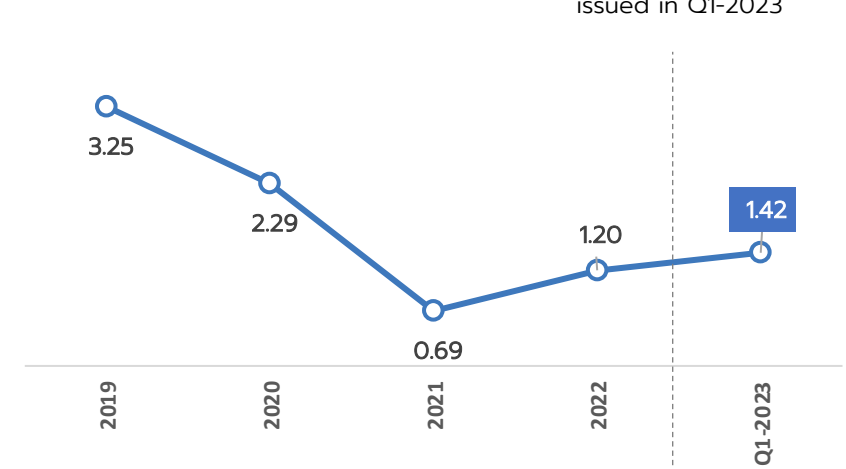
SG&A (million Baht)

SG&A for Q1-2023 increased 54%, loss on exchange rate and NRV was recognized in this period

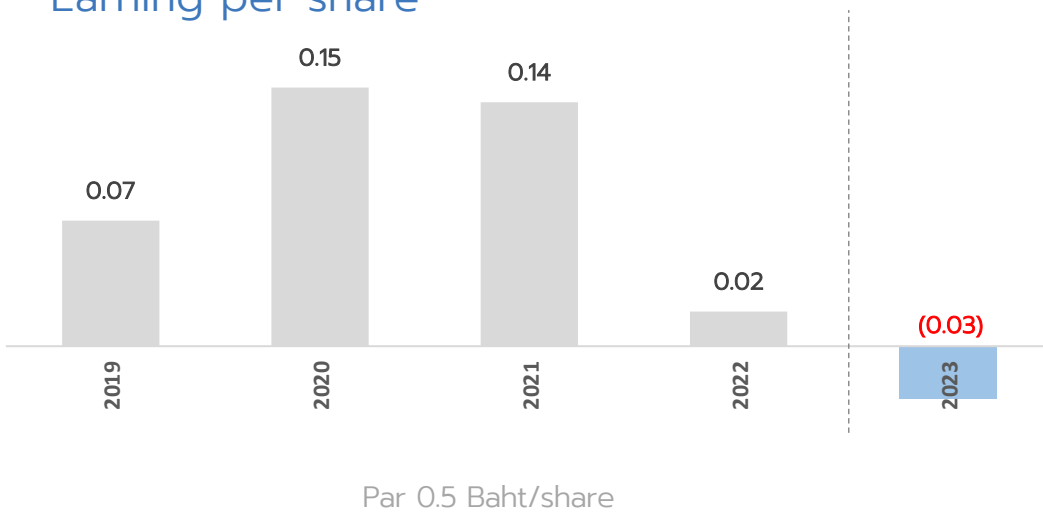


D : E Ratio

D:E Ratio was increased mainly due to new debenture was issued in Q1-2023

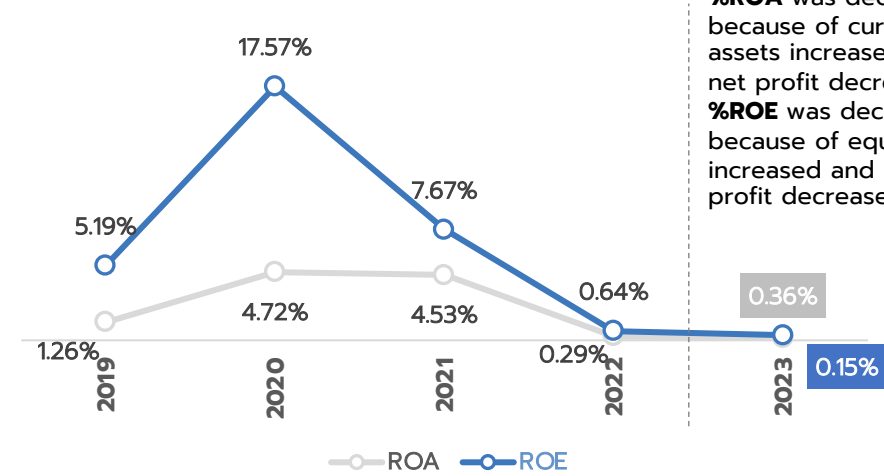


Earning per share

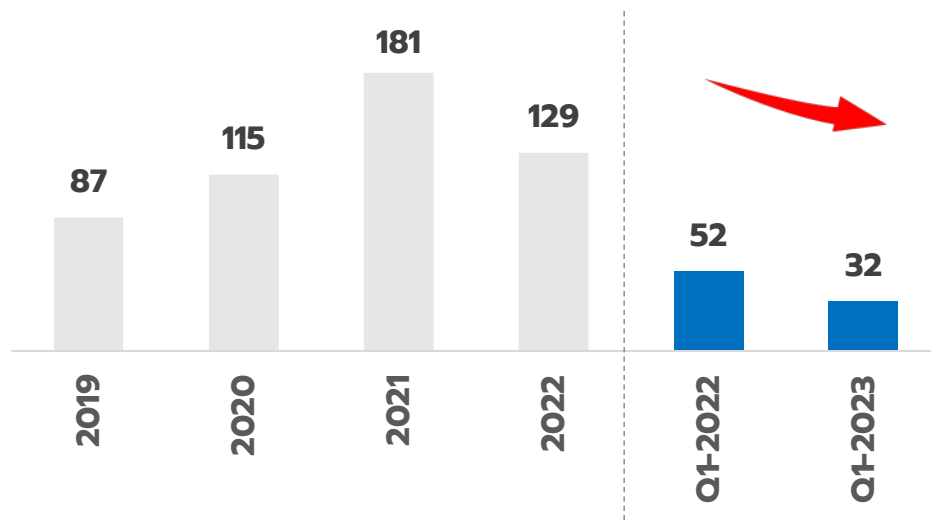


ROA and ROE (%)

%ROA was decreased because of current assets increased and net profit decreased.
%ROE was decreased because of equity increased and net profit decreased.



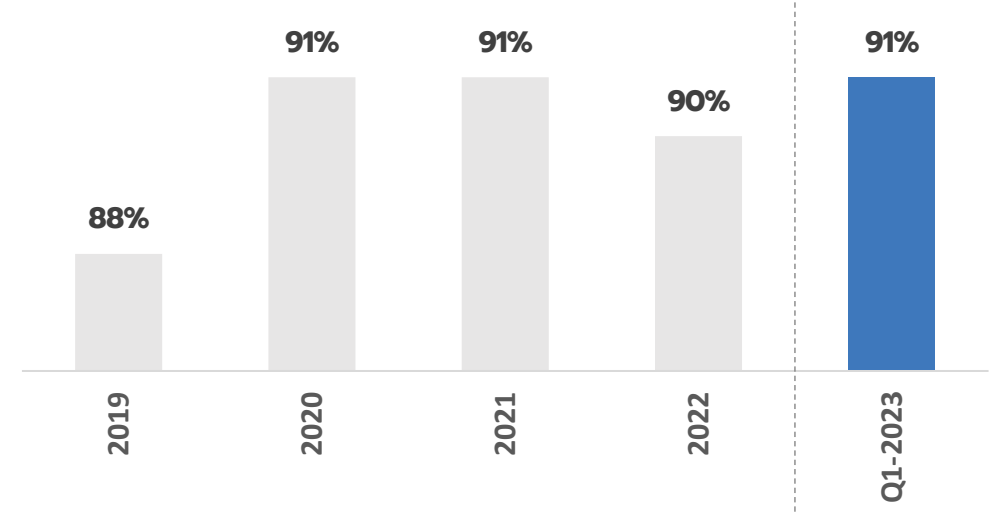
Electricity sale (GWh)



Electricity Generated Aggregate : CV, CPL, CPX, SPP*, RTB*

Capacity Factor⁽¹⁾

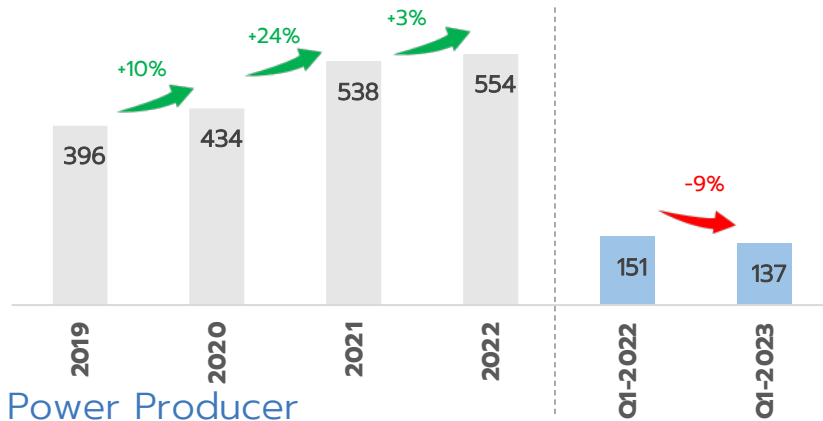
Average Capacity Factor in Q1-2023 was 91%, higher than year 2022 because of the lower shutdown hours of Q1-2023.



Average Capacity Factor : CV, CPL, CPX

*Note : For 2022 ,There was decreased in electricity sale mainly due to SPP in suspended and RTB was sold in Q2/2022

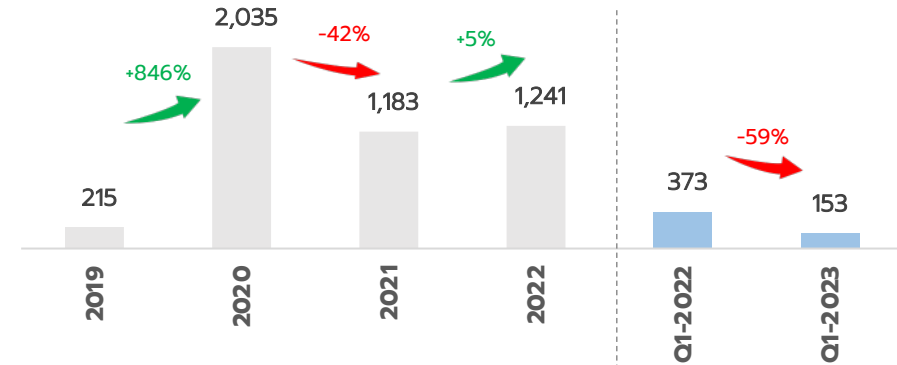
Revenue from Power Producer (million baht)



Power Producer

Revenue from power plant was decreased 9% mainly due to the decreased in revenue of plant from 4 plants to be 3 plants.

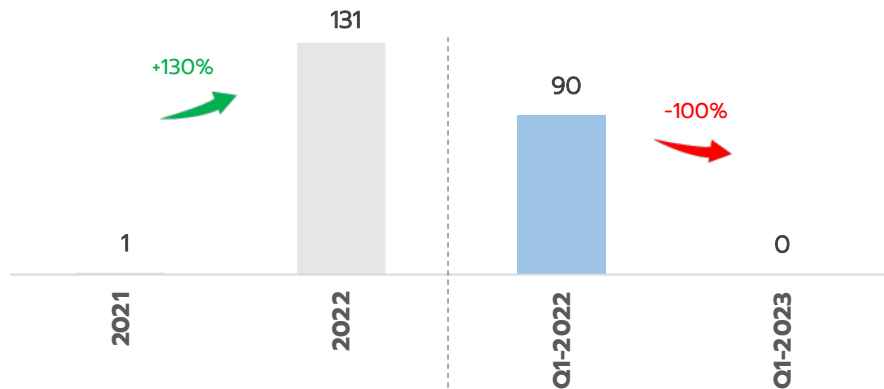
Revenue from Valued EPC (million baht)



Valued EPC

Revenue from EPC was decreased 59% mainly due to the EPC projects which were during final period in each projects, therefore, the revenue was recognized less than Q1-2022

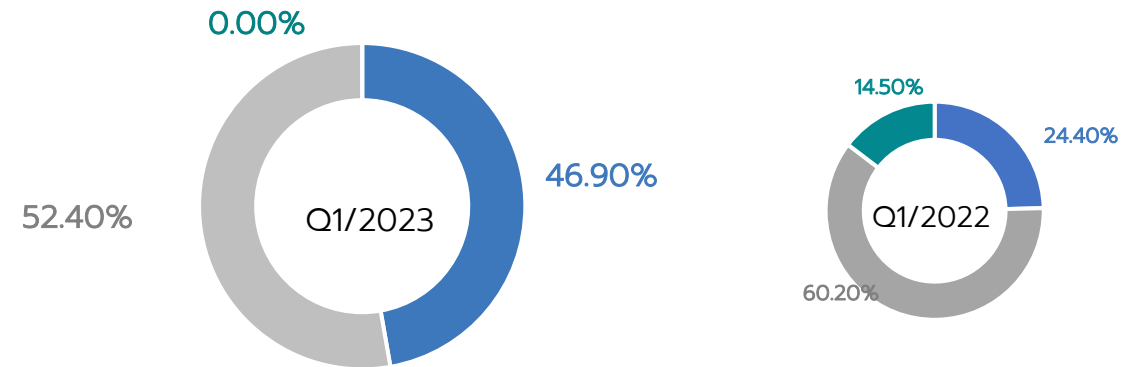
Revenue from Fuel Supply (million baht)



Fuel Supplies

Revenue decreased 100% when compared with Q1-2022, because there is no sale in fuel supplies which was during production.

Revenue Ratio Q1/2023 and Ratio Q1/2022 (%)

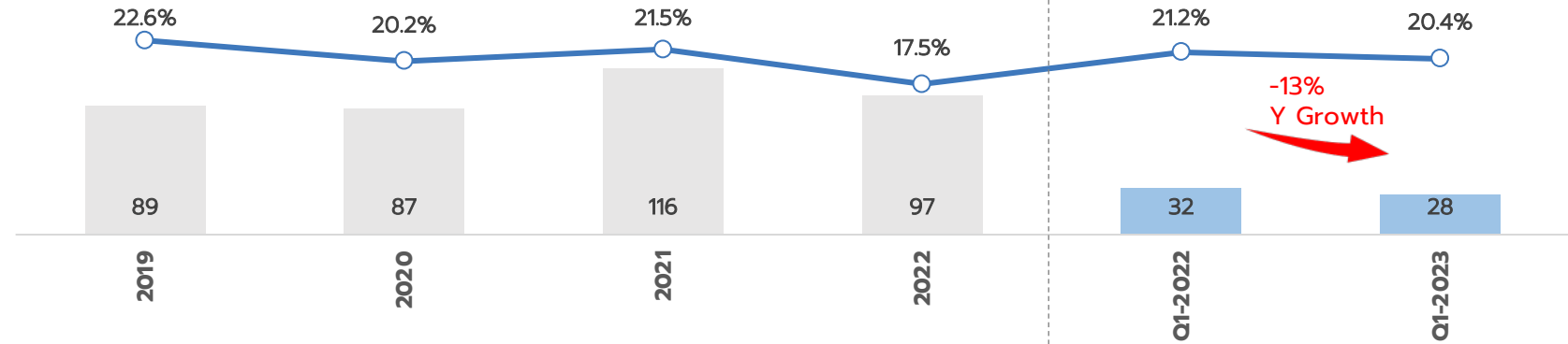


Gross Profit (Million Baht)



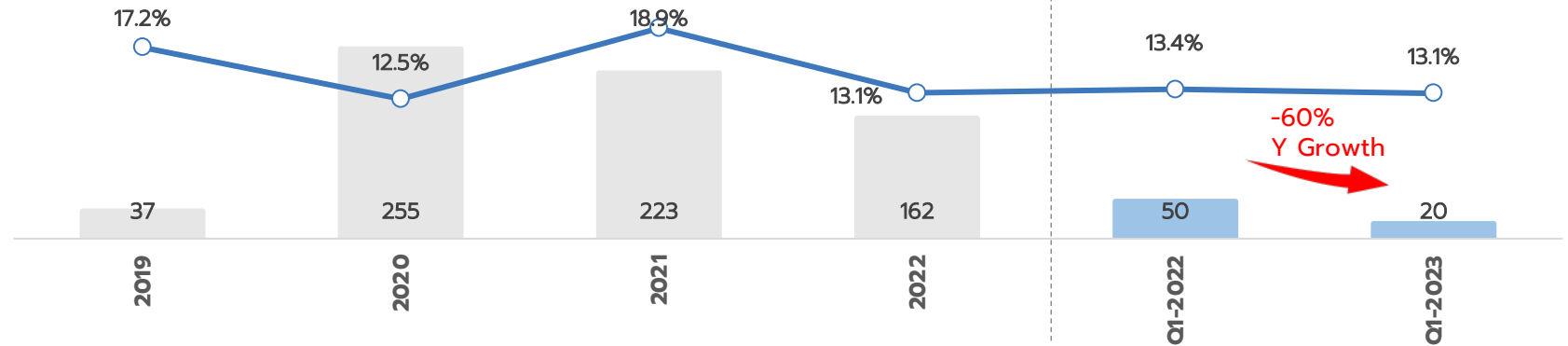
Power Producer

Gross Profit in Q1-2023 decreased by 13%, mainly due to the cost of biomass, RDF and gas which higher than Q1-2022



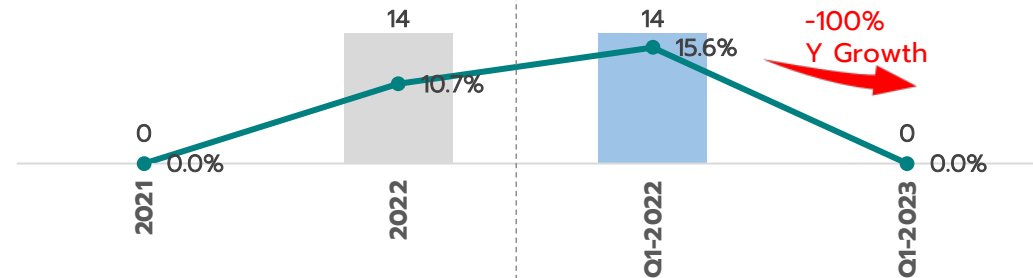
Valued EPC

%GPM in Q1-2023 was decreased by 60%, mainly due to EPC projects which were during final period in each projects, therefore cost of EPC was recognized lower than prior year



Fuel Supply

%GPM decreased 100% when compared with Q1-2022, because there is no sale in fuel supplies which was during production.





1.20%

21 MB

Modular



95.28%

1,693 MB

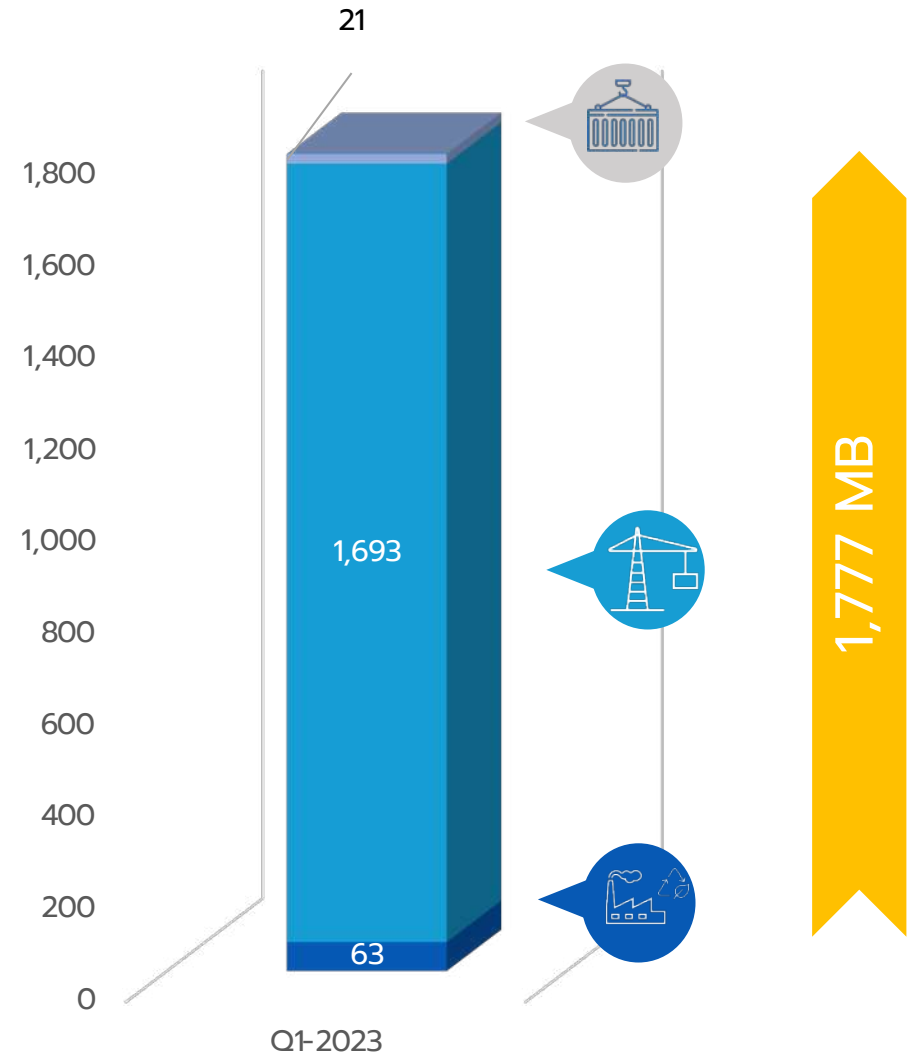
GENERAL CONSTRUCTION



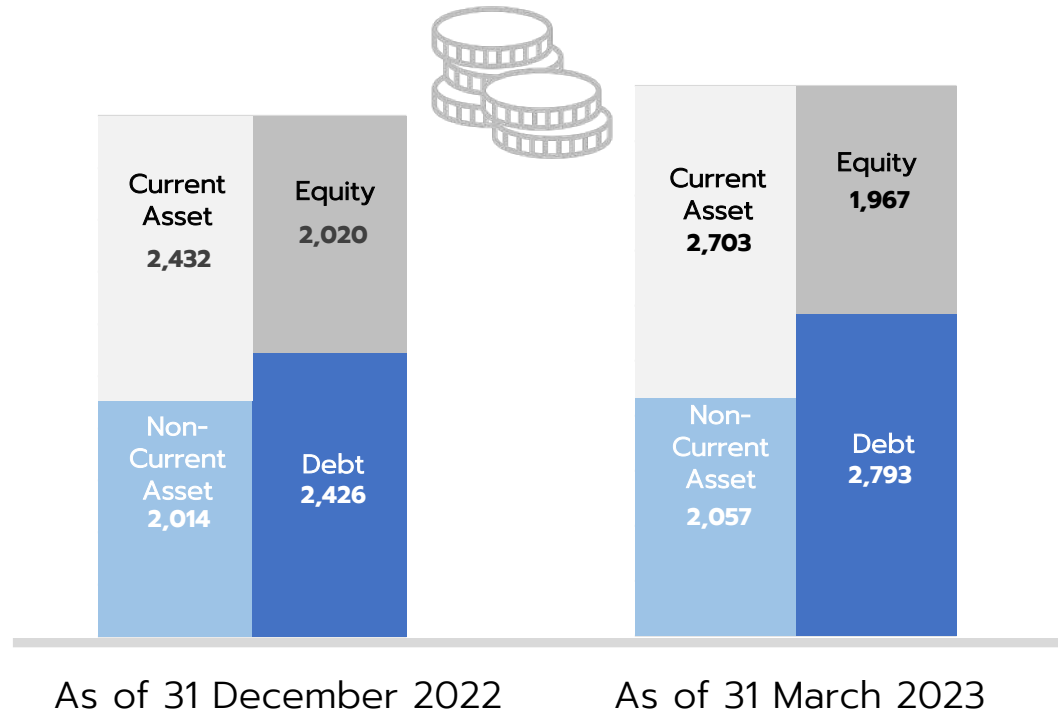
3.52%

63 MB

RENEWABLE ENERGY



Statement of Financial Position Consolidated (Million Baht)



1

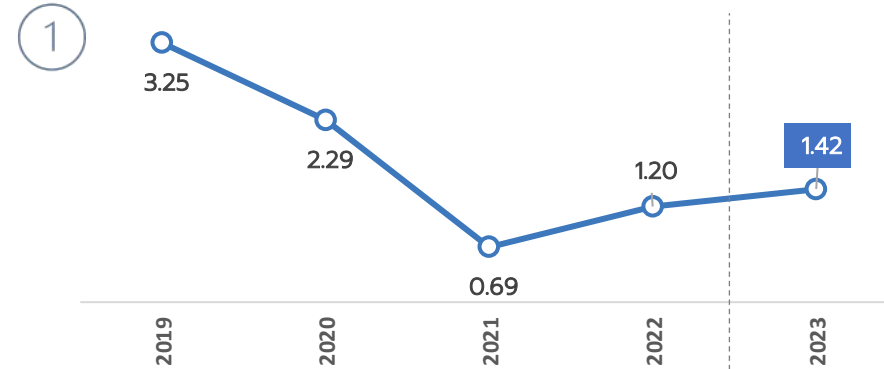
Statement of Financial Position
D:E Ratio was increased mainly due to new debenture was issued in Q1-2023.

2

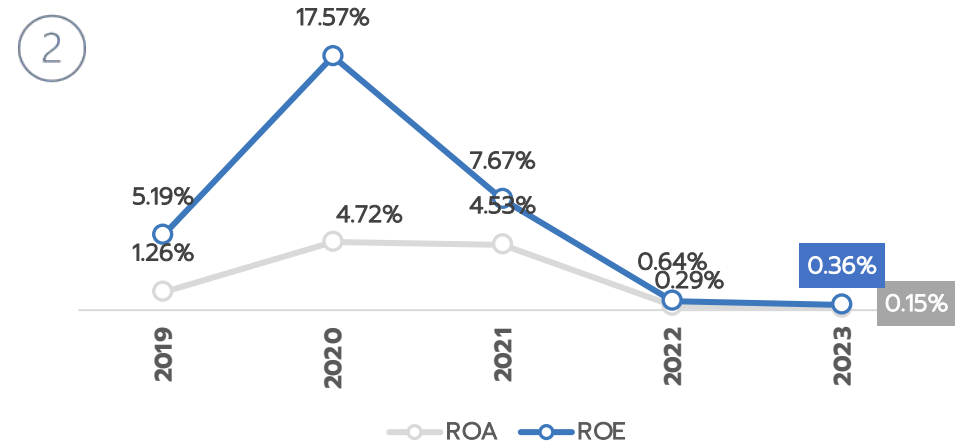
ROA & ROE

- %ROA was decreased because of current assets increased and net profit decreased.
- %ROE was decreased because of equity increased and net profit decreased.

D : E ratio



ROE and ROA(%)





Part 3 : Business Outlook



Camp Facility

Project site: CBD Bangkok

- ❖ 3 building (100 units/building)

Construction time reduced by factory manufacturing work and concurrent site work

- ❖ Procurement and Fabrication 60 Days
- ❖ Installation 15 Days (per building)



Clover Recycle

Site Location: Phichit

RDF3 Production Capacity :
50,000 tpa

Raw Material :

- MSW
- Industrial waste
(Non-Hazardous)

COD : May 2023

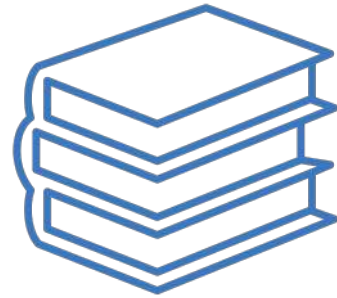


Fernview

Landfill facility is located approximately 100 km north of Perth CBD. The site has been designed and approved for 10 landfill cells with industrial waste management land purpose, EIA approved.

- Areas: 682 hectares
- Solar output expected from 1,680 – 1,826 kWh/kWp
- Licensed Capacity : 150,000 tpa
- Lifespan: 30 years
- Waste Type : Class II putrescible waste
- COD : Q3-2023
- Yellow sand mining surveyed capacity up to 11,000,000 tons





APPENDIX



CLOVER

Aims to develop and improve businesses, society and environment sustainability



Sustainability



Let's grow camp

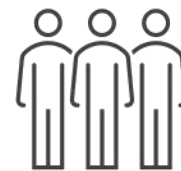


CV Plogging



โครงการรัก(ษ์) ต้อง แยก

Social & Environment Activities



Specialized training



CV Run Challenge



Action Learning Process

Human Resource Development

Q & A



green • tech • balanced

Balance of happiness for all, today and tomorrow.