



# Regenerative Happiness

## Bangchak Corporation Plc



**S&P Global**

**MSCI**  
ESG RATINGS



**SET** **AAA**  
ESG Ratings 2023

CCC | B | BB | BBB | A | AA | AAA

May, 2024



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# Bangchak Business Portfolio



Register Capital and Paid – up Capital 1,376,923,157 Baht



**4.76%**  
Ministry of Finance



**19.85%**  
Vayupak Fund 1



**14.18%**  
Social Security Office



**61.21%**  
Public (As of 7 March 24)



Sriracha Refinery

**LEGACY**

**TOUCHPOINT**

**GREEN PLATFORM**

Phra Khanong Refinery

**Refinery & Oil Trading Business**  
**294 KBD**

**Marketing Business**  
Distribution channels through industrial & retail channels  
**2,217** Service Stations

**Clean Power Business**  
bcpg Holds 57.81%  
**4 power generation technologies**  
in 7 countries over the world with **2,049 MW** in total

**Bio-based Products**  
bbgi Holds 45.00%  
No.1 fully Integrated Biofuel Producer in Thailand with **1.85 ML/D** in production capacity

**Natural Resources**

**OKEA ASA**  
Norway-based oil & gas company with production capacity of **35-40 KBD** in 2024  
Holds 45.58%

**bsrc** Holds 76.34%

of nameplate capacity with **500,000 Tons of Paraxylene**



# Always Ahead of The Game!

## Leading the Way in the Eco-Revolution





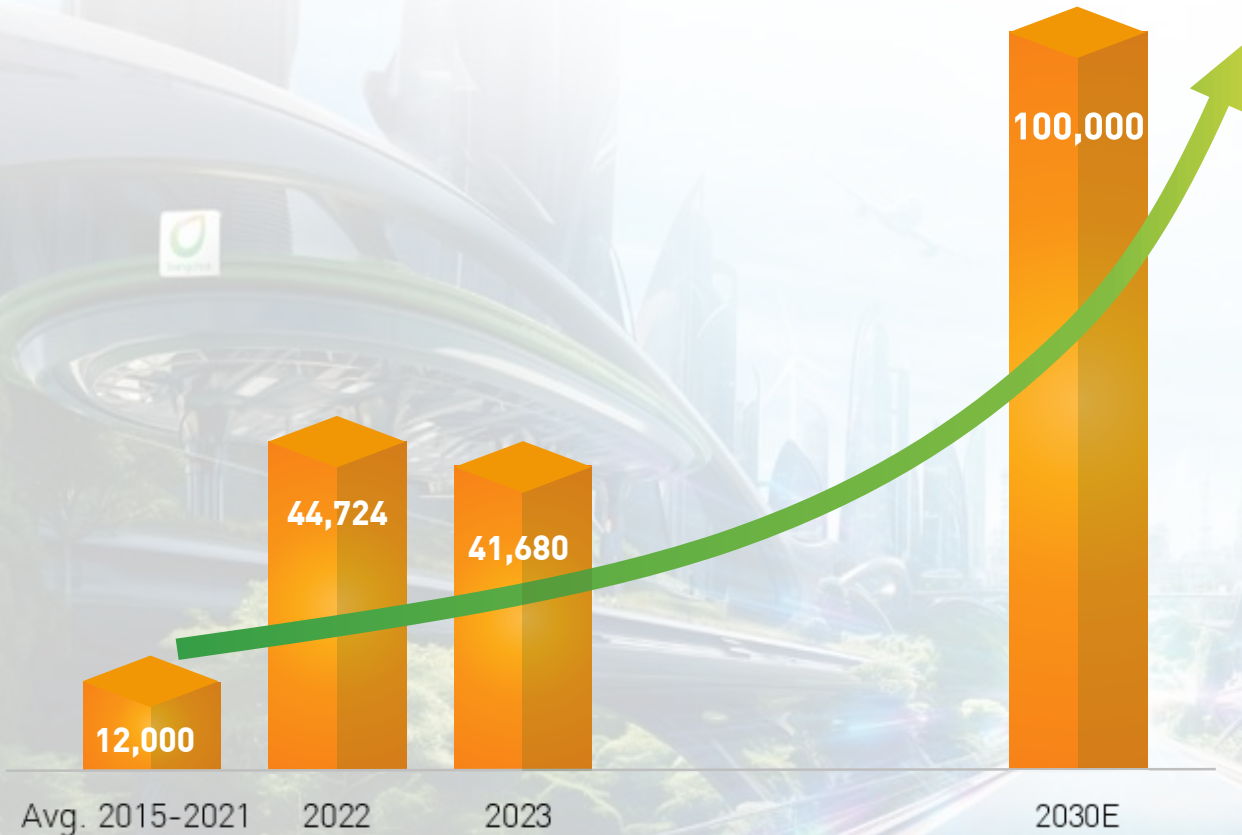
# Exponential Growth Journey

*Strong Market Fundamentals, Optimization, Diversification*

*10X  
New Growth  
Chapter*

## Accounting EBITDA

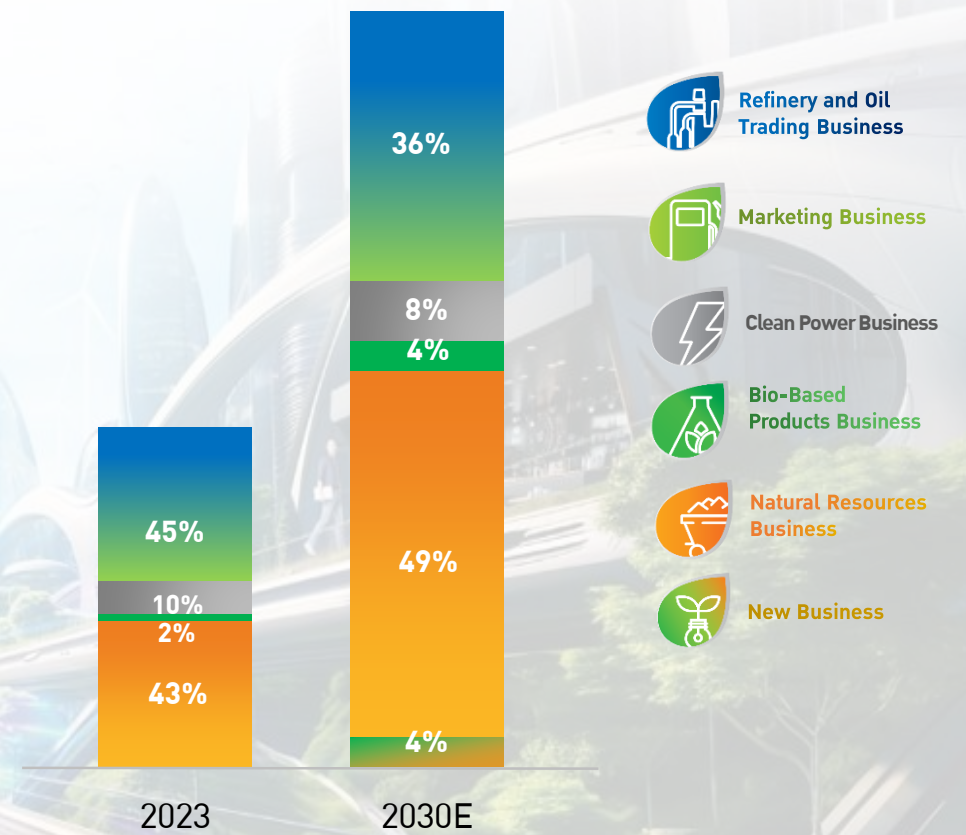
Unit : Million Baht



## Accounting EBITDA

(% breakdown by business unit)

*100 Bn.*



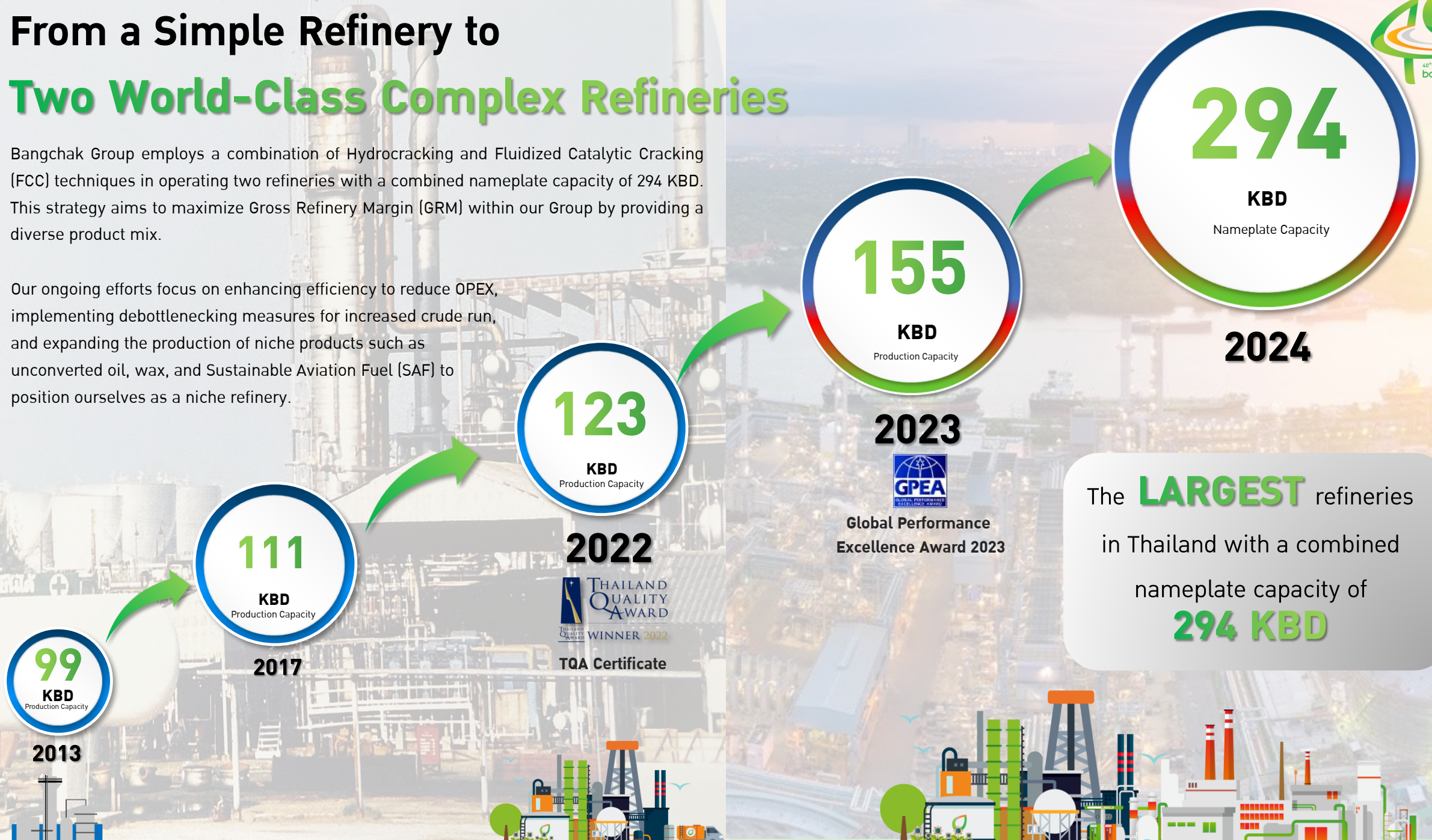
-  Refinery and Oil Trading Business
-  Marketing Business
-  Clean Power Business
-  Bio-Based Products Business
-  Natural Resources Business
-  New Business



# From a Simple Refinery to Two World-Class Complex Refineries

Bangchak Group employs a combination of Hydrocracking and Fluidized Catalytic Cracking (FCC) techniques in operating two refineries with a combined nameplate capacity of 294 KBD. This strategy aims to maximize Gross Refinery Margin (GRM) within our Group by providing a diverse product mix.

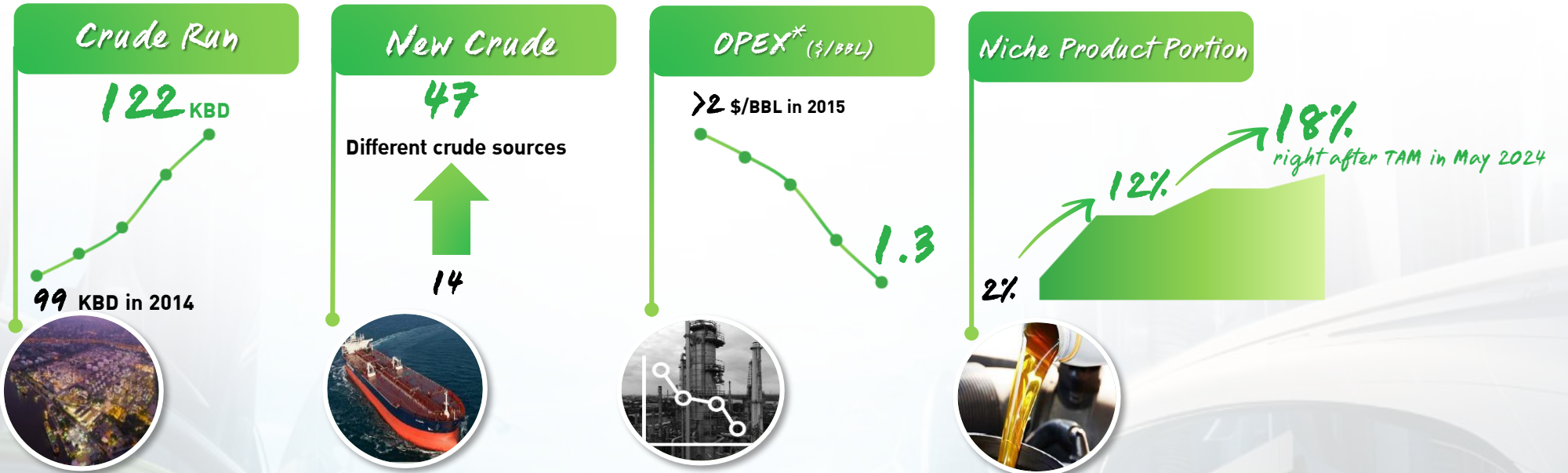
Our ongoing efforts focus on enhancing efficiency to reduce OPEX, implementing debottlenecking measures for increased crude run, and expanding the production of niche products such as unconverted oil, wax, and Sustainable Aviation Fuel (SAF) to position ourselves as a niche refinery.



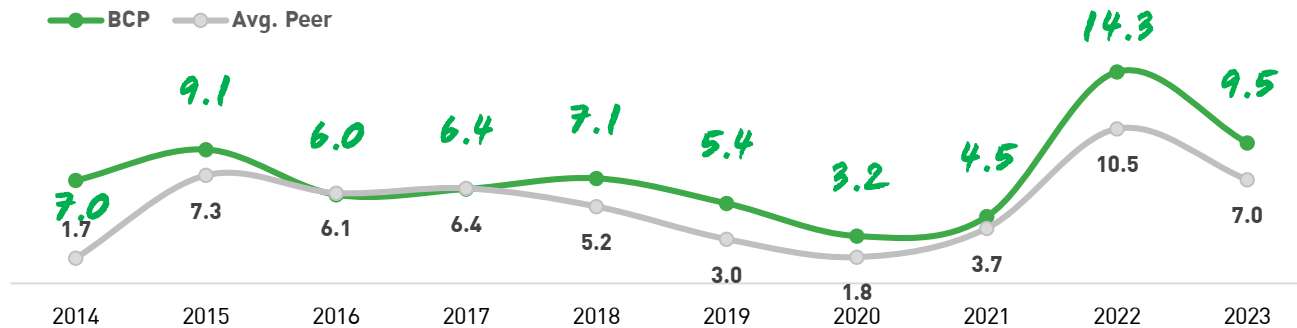
The **LARGEST** refineries in Thailand with a combined nameplate capacity of **294 KBD**



# Thriving Sriracha Refinery through Bangchak Legacy



## PROVEN HIGH LEVEL of GRM (\$/BBL)





# Complementary Refinery Portfolio: Pre-Integration



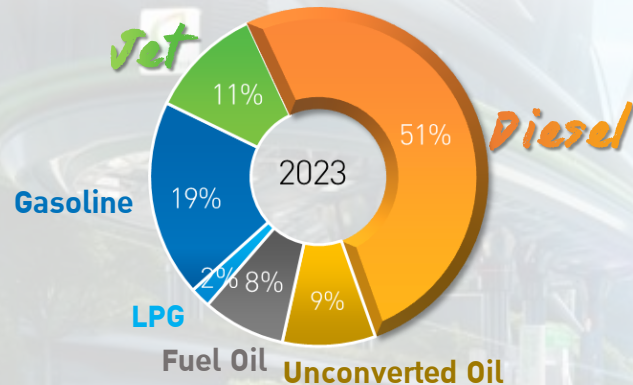
## Phra Khanong Refinery

120 KBD

103%

Hydrocracking (HCU)

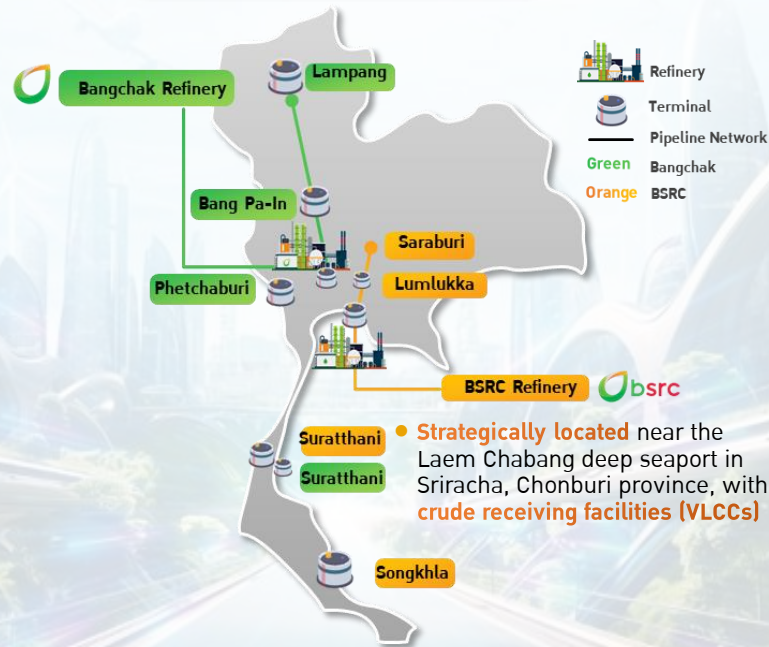
Middle Distillate



Status before acquisition:

Importation of Gasoline 50-75 ML/MO

- Nameplate Capacity
- FY23 Avg. Utilization Rate
- Technology
- Product Yield Maximization



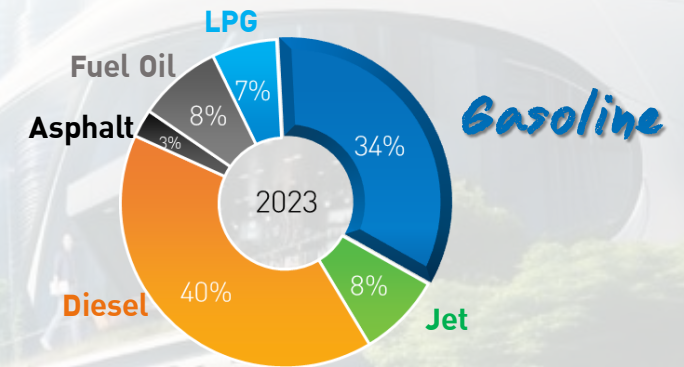
## Sriracha Refinery

174 KBD

68%

Fluidized Catalytic Cracking (FCC)

Gasoline



Status before acquisition:

Exportation of Gasoline & Fuel Oil (FO)



# From Cooperative Service Stations to **Greennovative Destination**

*2x growth*

**1,072**  
Stations

2015

**2,217**

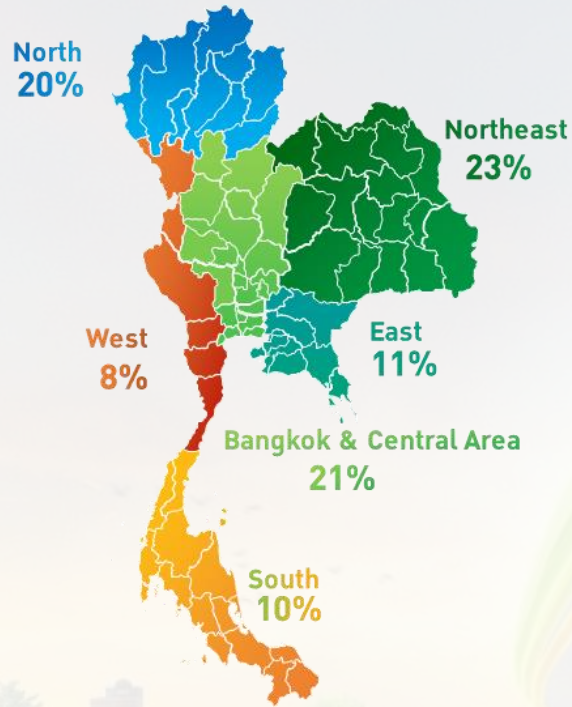
Stations  
Ended Q1/24



**bangchak 6<sup>th</sup> & Inthanin 3<sup>rd</sup>** consecutive Superbrands



# Strengthening Marketing Portfolio: Pre-Integration



**2,217**  
service stations  
*1,388 + 829*

**No.1**  
in Bangkok & Central Area

**33%**  
Network Coverage of Branded SS. in Thailand

**13%**  
Market Share in Premium Products Growth **4X** from pre-integration

## Bangchak

**397 ML/MO**  
(Standard Type Thruput per SS: 42X KL/MO)

**143 ML/MO**

**16.5%**

**FURIO**

**Inthanin 1,020**

## Bangchak Sriracha

**FY2023**  
Avg. Sales Volume via SS

**290 ML/MO**

Avg. Sales Volume in Industrial Market

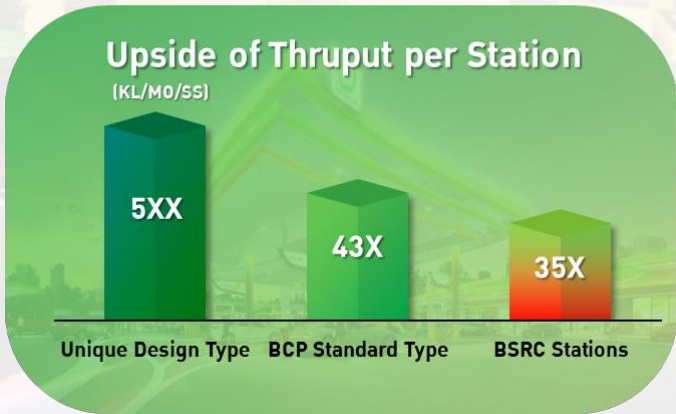
**341 ML/MO**

Retail Oil Market Share

**12.3%**

Lubricant Sales

Coffee Outlets



*Opportunities to Expand Retail Businesses*



Network Planning



Non-Oil Expansion



Fleet Card



Co-Marketing Campaign



EV Charger



# Keep Realizing EBITDA Synergies >3,000 mn. THB/Year

### Refinery Operations

~฿1,000 mn. THB

- ✓ Improved utilization from 130 KBD to 174 KBD
- ✓ Product yield and GRM optimization
- ✓ Coordinated maintenance schedule
- ✓ Strategic oil blending
- ✓ Crude co-loading

### Logistics

~฿200 mn. THB

- ✓ Logistic re-zoning
- ✓ Expanded logistics reach with lower cost
- ✓ Trading growth

### Marketing Network

~฿300 mn. THB

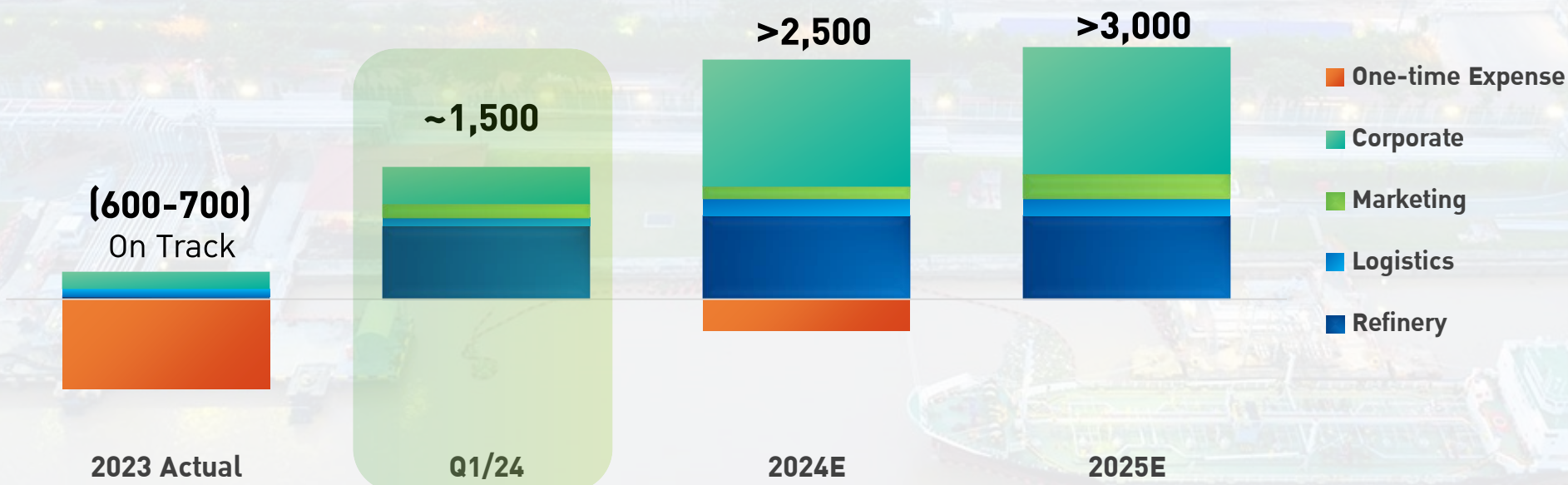
- ✓ BSRC's throughput enhancement
- ✓ Increase sales volume of premium products
- ✓ Expand industrial sales volume
- ✓ Opportunity for Non-oil network expansion in BSRC's stations

### Corporate Cost Saving

~฿1,500 mn. THB

- ✓ Economies of scale on back-office operations
- ✓ Simplified management structure

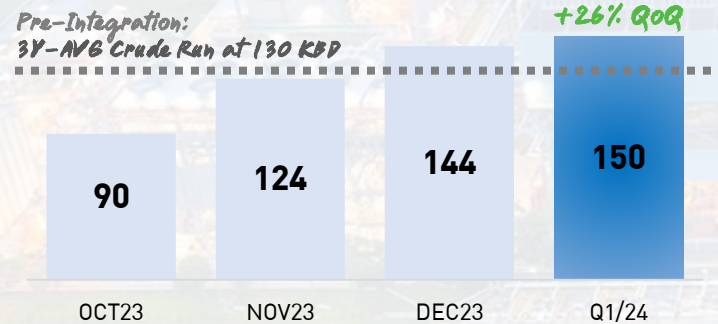
Unit : Million Baht



# Synergy in Action: Progress Snapshot

## Refinery Operations

### ✓ Sriracha Crude Run Improvement (Unit: KBD)



### ✓ Crude Co-Loading & Co-Purchasing

- ✓ Jetty & Port improvement for receiving larger vessels
- ✓ Receiving **Suezmax vessel** (~ 950,000 barrels)
- ✓ Higher negotiation power for crude purchase

### ✓ Product Optimization & Product Blending

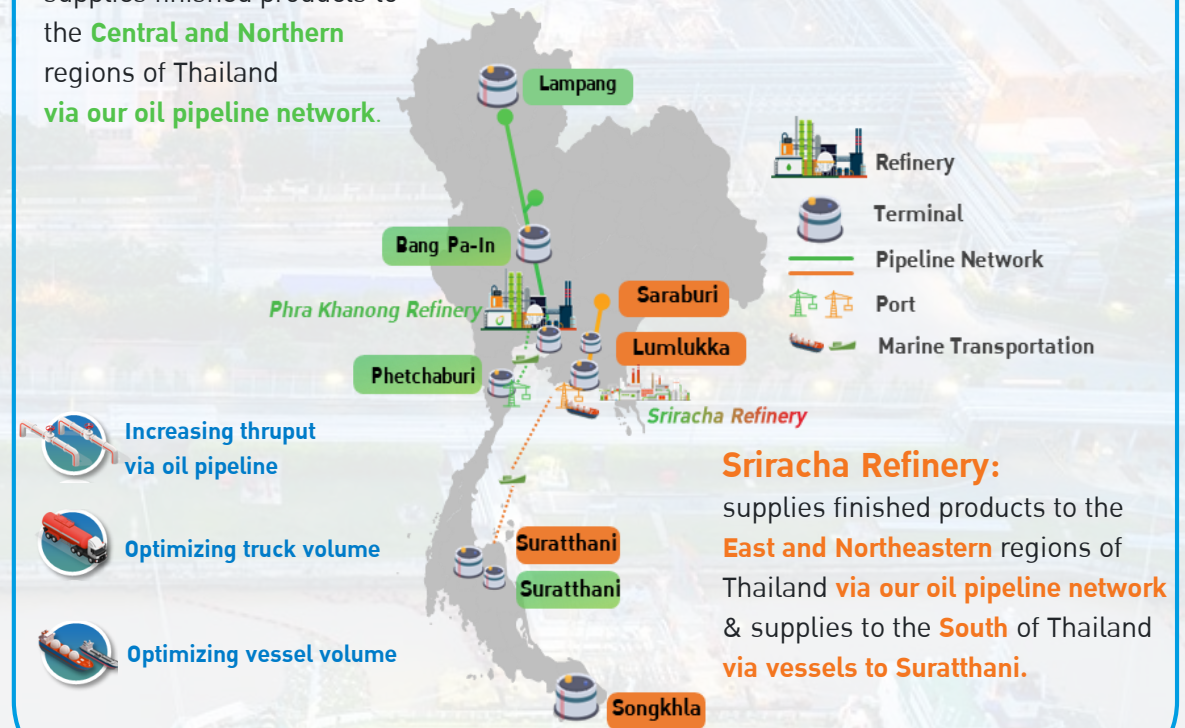
- for profit maximization of Bangchak's Group
- ✓ **No Gasoline Import for BCP**, replacing by Gasoline production from BSRC (Previously BSRC used to export Gasoline)

## Logistics

### ✓ Logistics Rezoning & Oil Pipeline Usage

#### Phra Khanong Refinery:

supplies finished products to the **Central and Northern** regions of Thailand **via our oil pipeline network.**





# Synergy in Action: Progress Snapshot

## Marketing Network

✓ Rebranding Service Stations **829** **45% SS rebranding** *As of APR24* *Target to be completed by 2024*

✓ Avg. Sales Volume via SS **+32 ML/MD** *from pre-integration*

✓ Retail Market Share **28.8%** *(FY2023)* → **29.2%** *(Q1/24)*

✓ Premium Product Penetration **HI6 PREMIUM 97 EURO 5** **HI6 PREMIUM g155 Diesel S<sub>B7</sub>**

✓ Non-Oil Offering Penetration **Lubricant Sales into 747 SS under BSRC**

✓ Integrated Marketing Campaign **Sales Promotion**  
✓ **Loyalty Program**

## Corporate Cost Saving

✓ **Providing shared services**  
 i.e. Accounting, IT, HR systems with comprehensive support

✓ **Business Management & Brand Royalty**

✓ **Manpower Management**  
 i.e. manpower sharing for some units & strategic work etc.

✓ **Co-Procurement & Pool Bidding**  
 i.e. external auditor fee, equipment, chemicals, and others for 2 refineries

✓ **Facility Management**  
 i.e. co-office space, equipment, cleaning etc.





# What is Sustainable Aviation Fuel (SAF)



## SAF

Sustainable Aviation Fuel (SAF) are defined as renewable or waste-derived aviation fuels that meets sustainability criteria, that has similar properties to conventional jet fuel but with a smaller carbon footprint.

- 100% WASTES AND RESIDUES



Crops Inedible Part

- DROP-IN Jet fuel quality



- SAF gives an impressive reduction of up to 80% in carbon emissions over the lifecycle of the fuel compared to traditional jet fuel

**CO<sub>2</sub> 80%**

## ICAO Certified Technology



**50%**

Maximum Blending Ratio into JET

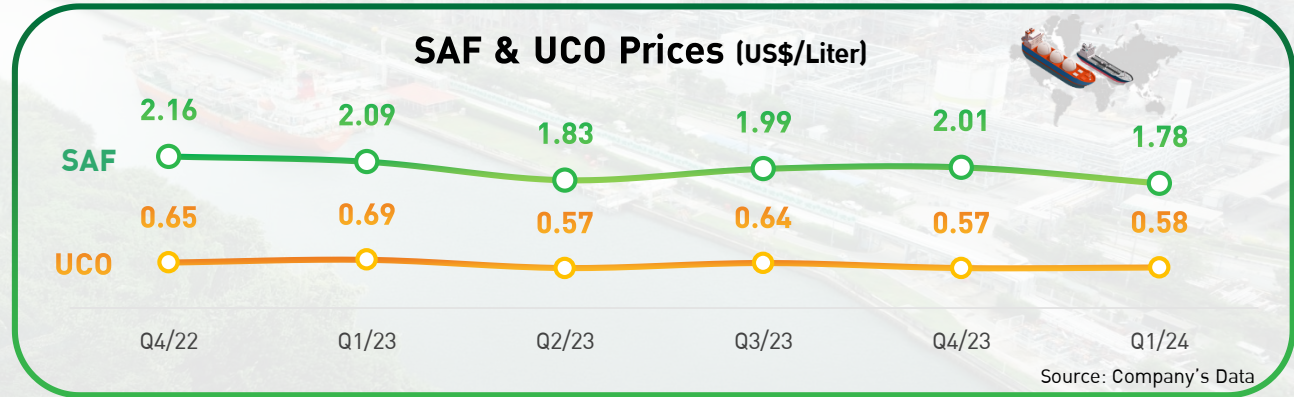
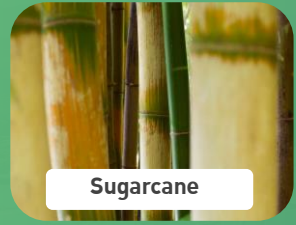
HEFA: Synthesized paraffinic kerosene from **Hydrotreated Esters and Fatty Acids**



**50%**

Maximum Blending Ratio into JET

Alcohol to Jet (ATJ)





# Bangchak's Sustainable Aviation Fuel (SAF)

**1st**  
SAF Producer  
in Thailand

**1st**  
Player to secure  
feedstock

**Lower**  
CAPEX

**No CIT**  
for 8 years  
thanks to BOI  
benefit

## Shareholding Structure

- Investment Budget: 8.5 bn. THB
- Production Capacity 1 ML/D (7 KBD)
- Target COD: Q2/2025



SAF Production Plant under Construction

## SAF Feedstock

### Used Cooking Oil (UCO)

- 1 To purchase UCO at **Bangchak 162** Service Stations nationwide
- 2 Strategic partnership & being a shareholder of no.1 used cooking oil collector in Thailand:



### 3 Palm Fatty Acid Distillate (PFAD)

Receiving from **Palm Oil Refinery Plant** in Bangchak Group

## SAF Customers

- Locked in Sales Volume **60%** of total production
- Strategic Partnership Agreement

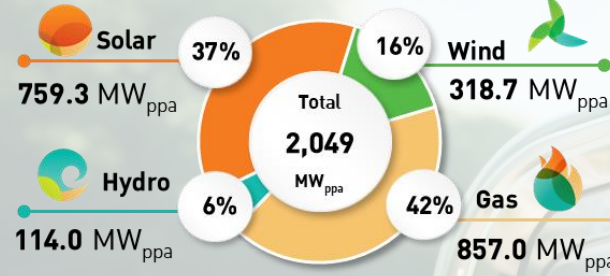




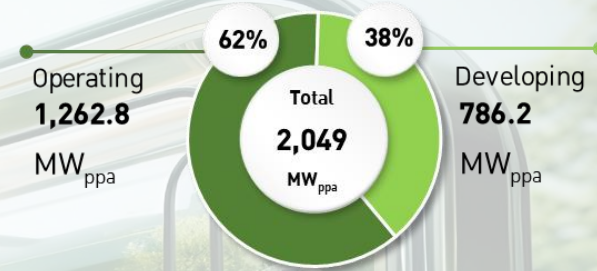
# Clean Power Business footprints in 7 countries globally

An integrated power generation company and service provider of smart energy system focusing on renewable and clean power

## Generation by Technologies



## Production Capacity



## District cooling

3,000 RT (Phase I)  
(SCOD 2024)

Operating      Developing

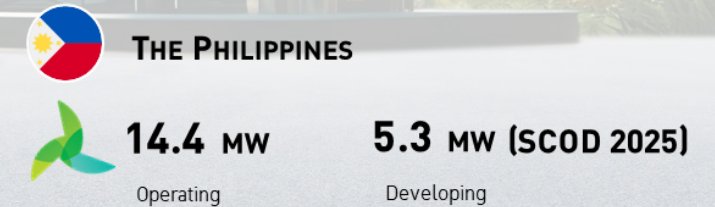
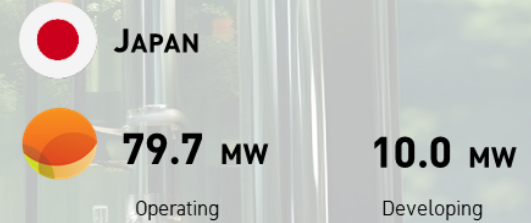
## LAOS TO VIETNAM

114.0 MW (Hydropower)



(SCOD 2025)  
290.0 MW

Operating      Developing

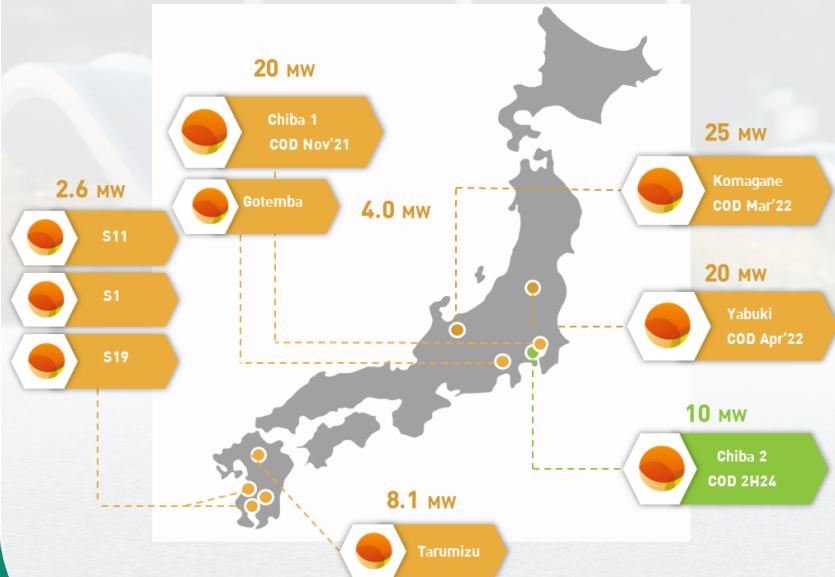




# Clean Power Business: 2024 Project Highlights

## Capital Recycling from Japan Divestment

- 9 solar farms & Asset Management and Operation & Maintenance unit
- Transaction value of **JPY 42,970 mn.** (approx. of **THB 10,377 mn.**)
- Target completion by **2024**

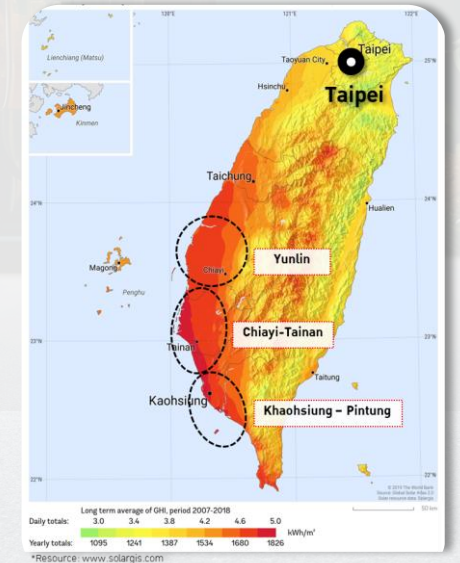
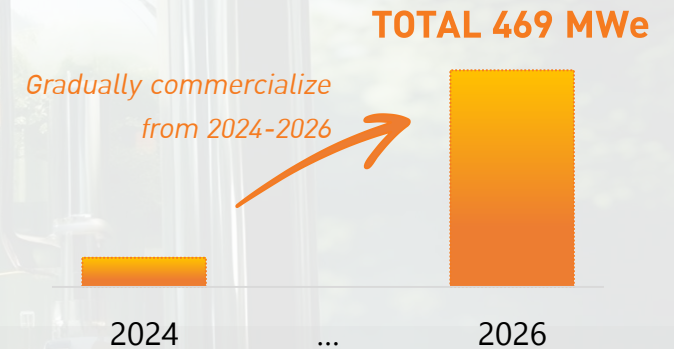


## Thailand 13 MWe Solar Farm additional acquisition in operating assets

- 4 Operating Assets
- Investment < **THB 477 mn.**
- Completed 8 MWe in 1Q24-2Q24 & 5 Mwe by 2024



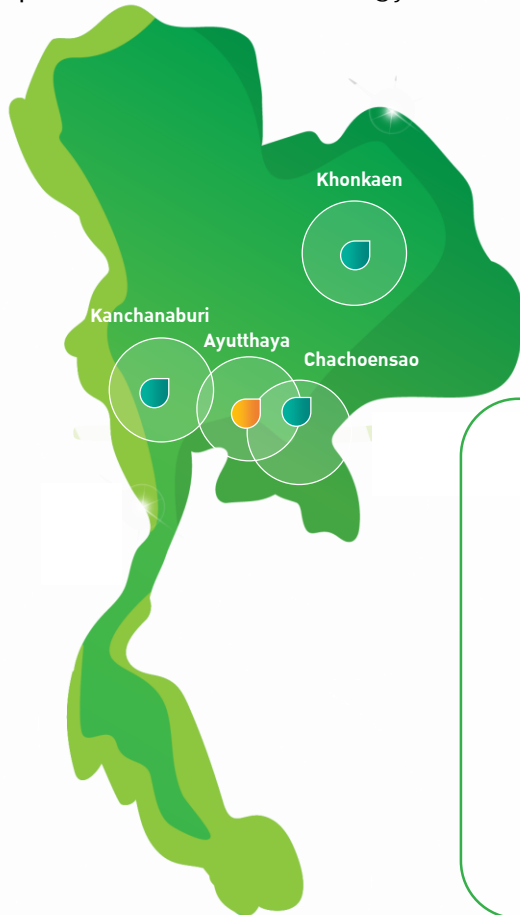
## Taiwan 469 MWe Solar Farm under construction as planned



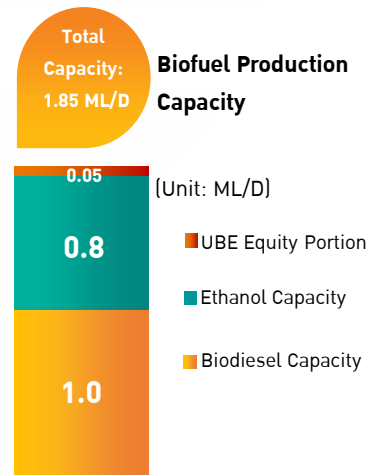


# Biotechnology Beyond Biopower

No.1 Fully Integrated Biofuel Producer in Thailand,  
aiming to become a leader in premium bio-based  
products and biotechnology business.



Holds 44.99%





# ASEAN 1<sup>st</sup> CDMO Producer



Strategic JV with Fermbox Bio to establish

*the first CDMO Plant*



Expertise in synthetic biology and manufacturing processes



Experience in large-scale project execution

bbfb

Capacity: 2,000 Tons/Year

- **PROJECT INVESTMENT** : **< 444 MB** (Proceeds from IPO)
- **% OF BBGI SHARE** : **> 75%**
- **PRODUCTION CAPACITY** : **2,000 Tons/Year** (Initial Phase)
- **SYNBIO PRODUCT** : **Industrial Enzymes** (Initial Phase)

# Strong Foothold in E&P Business

With investment in upstream petroleum exploration and production (E&P) business through OKEA ASA in Norway since 2018, Bangchak Group has planned to extend our presence in E&P to other regions in the world.



OKEA ASA Holds 45.44%



Production Volume (KBOEPD)

	2023	1Q24
Draugen	6.5	10.6
Brage	4.9	7.6
Gjoa & Nova	7.4	6.4
Ivar Aasen	3.0	2.8
Yme	2.8	3.4
Statfjord area	-	11.3
<b>Total</b>	<b>24.6</b>	<b>42.1</b>



# Creating Value through active ownership



**Draugen**  
44.56%



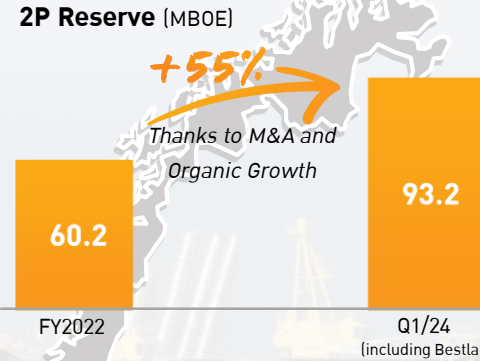
Taking operatorship in December 2018



Increased production efficiency to **90% in Q1/2024 (from 88% in 2019)** driven by solid operational performance and key contributions from **Hasselmus**



Sanctioned electrification project – will reduce CO<sub>2</sub> intensity by **95%** and production expense by 2027



**Brage**  
35.2%



Becoming operator in November 2022

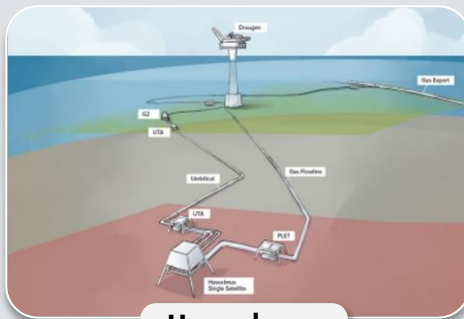


Improved production efficiency to **96% in Q1/2024 (from 91% in Q1/2023)** through successful infill drilling campaign and Cook development, delivering above expectations  
**Bestla tie-back to Brage will add significant volumes**, synergies and economics of scale



## New Development Fields

a subsea tie-back to **Draugen platform**



**Hasselmus**

**1.96 KBOEPD**

**Net Production**

**10 KBOEPD**

**4.7 MBOE**

**Net 2P Reserve**

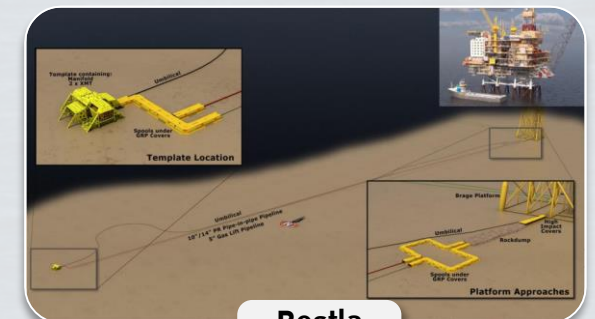
**9.4 MBOE**

**Oct 2023**

**COD**

**Target 1H2027**

a subsea tie-back to **Brage Platform**

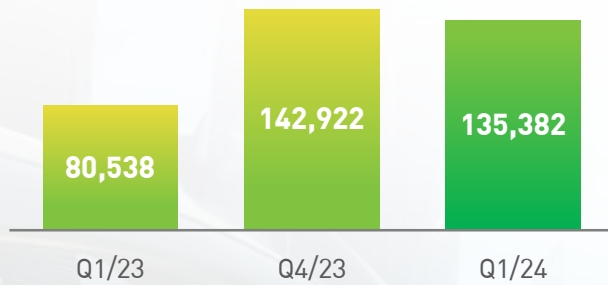


**Bestla**

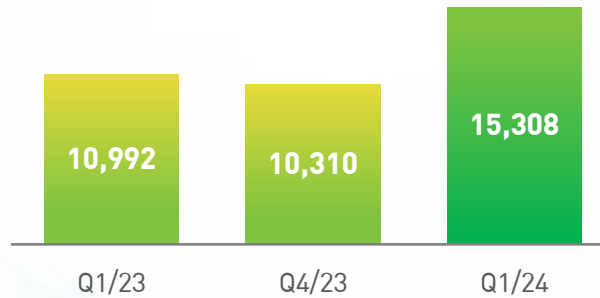


# Highest-Record Quarterly Accounting EBITDA

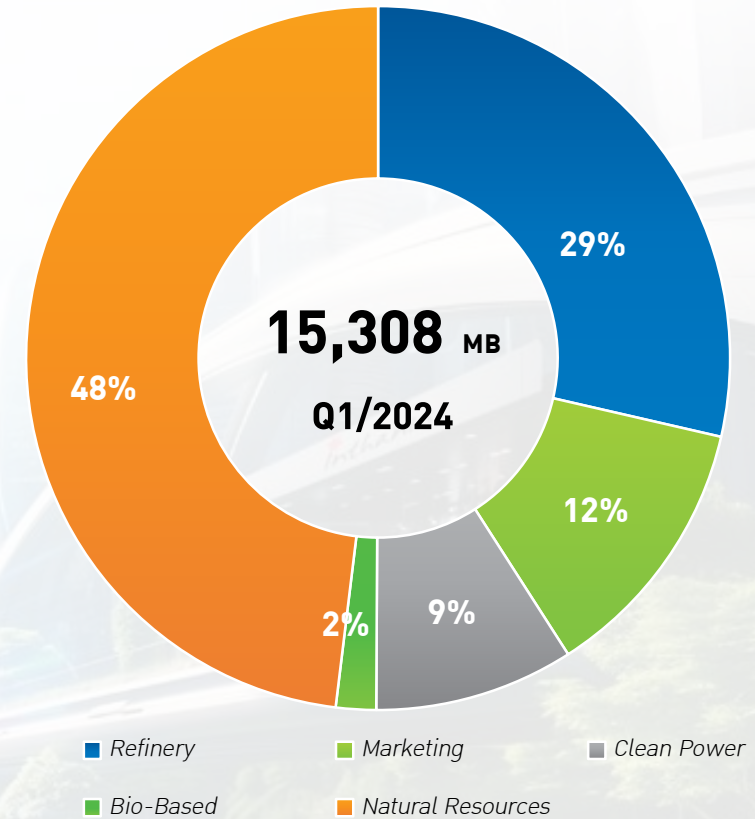
Total Revenue (MB)



Accounting EBITDA (MB)



Accounting EBITDA Breakdown by Business Unit



PAT (MB)



Core Profit (MB)





# Q1/2024 Performance Snapshot comparing to Q4/2023

## Accounting EBITDA (Unit : Million Baht)

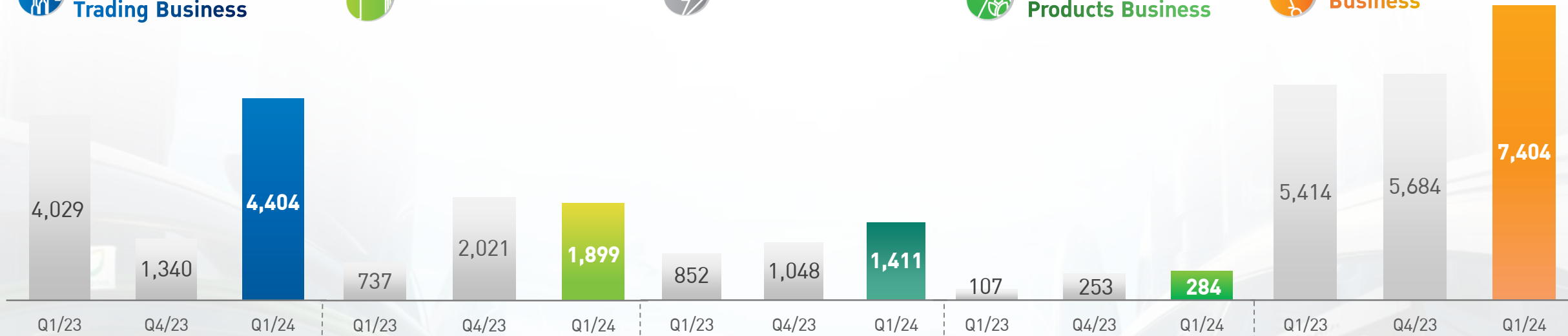
**Refinery and Oil Trading Business**

**Marketing Business**

**Clean Power Business**

**Bio-Based Products Business**

**Natural Resources Business**



- Highest Record Run Rate of 272 KBD after the Acquisition of BSRC
- Strong Operating GRM at \$6.08/BBL
- Lower Inventory Loss (Net NRV)

- Highest Total Sales Volume thanks to the Acquisition of BSRC
- Increase in Retail Market Share to 29.2%
- Lower Inventory loss (Net NRV)
- Soften Marketing Margin

- Higher Share of Profit from U.S. Projects & Full Quarter Profit Recognition
- Slightly Lower Electricity Sales due to Seasonality Impacted Hydro Power Plant

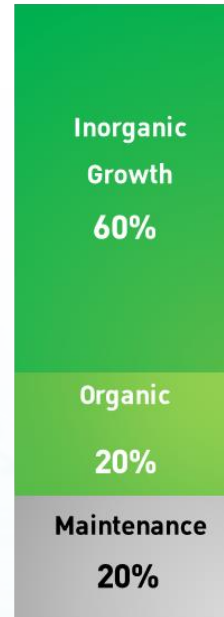
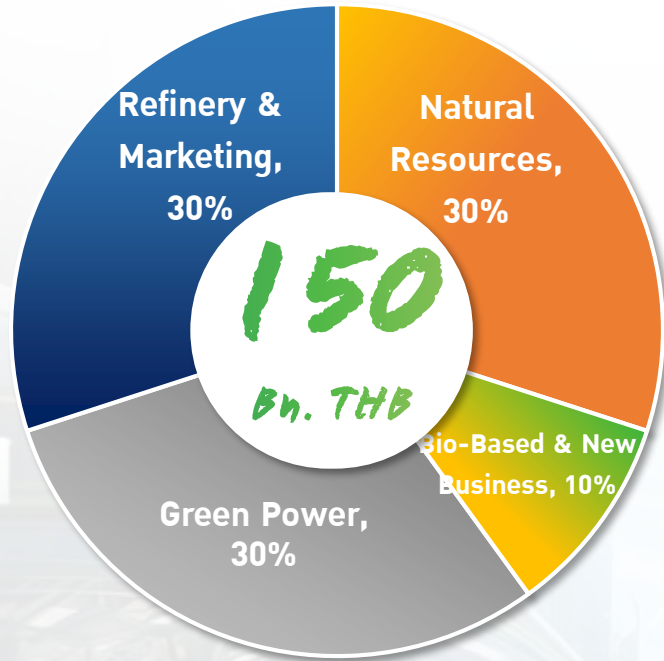
- Highest B100 Sales Volume thanks to selling to BSRC
- Improved Ethanol Spread
- Lower Ethanol Sales Volume

- All Time High Production & Sales Volume
- Lower Oil & Gas Prices
- Net Impairment loss of 366 MB – impact to PAT



# Investment Plan

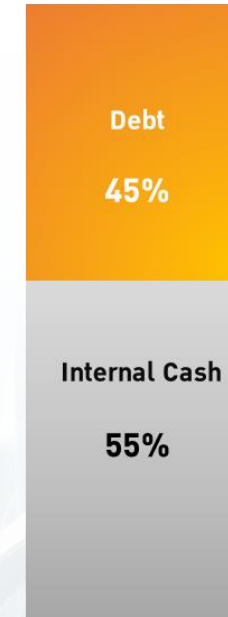
## CAPEX 2024-2030



Growth vs. Maintenance



Low-Carbon vs. Old Economy



Source of Fund

(Unit: MB)



Refinery and Oil Trading



bsrc



Marketing



Green Power



Bio-Based Products



Natural Resources



New Business

2024E

9,000

1,700

1,700

14,000

800

17,800

5,000

**Total CAPEX in 2024: 50,000 Mn. THB**



# Strong Financial Status Going Forward

## Resilience

Data as of 31 Mar 2024

**Cash<sup>(1)</sup>**  
**34,091 MB**

**Asset**  
**352,406 MB**

**Debt**  
**128,769 MB**

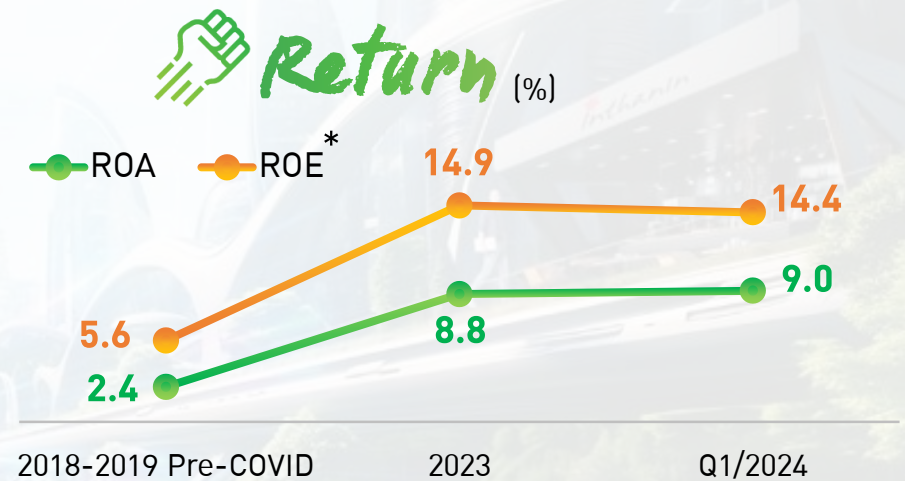
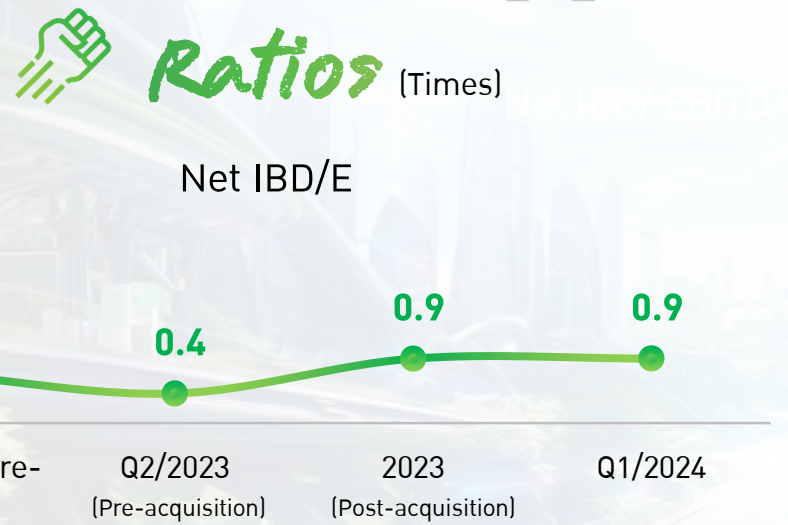
**EBITDA LTM<sup>(2)</sup>**  
**45,997 MB**

Remark: <sup>(1)</sup>Including short-term investment    <sup>(2)</sup>Last 12 Month

## Confirm Credit Rating from **TRIS RATING:**

A




'Stable' Outlook as of 31 AUG 23



\*Note: Calculated from Recurring PAT (Excl. impairment and other one-time items)



## *Building a Legacy of Growth*

-  Driving growth from key business units
-  Optimize synergy among Bangchak Group
-  Continued searching for future investment opportunities






## *Maximizing Returns*

-  Deliver high level of Total Shareholding Returns (TSR)
-  Disciplined new investment
-  Capital recycling for portfolio optimization



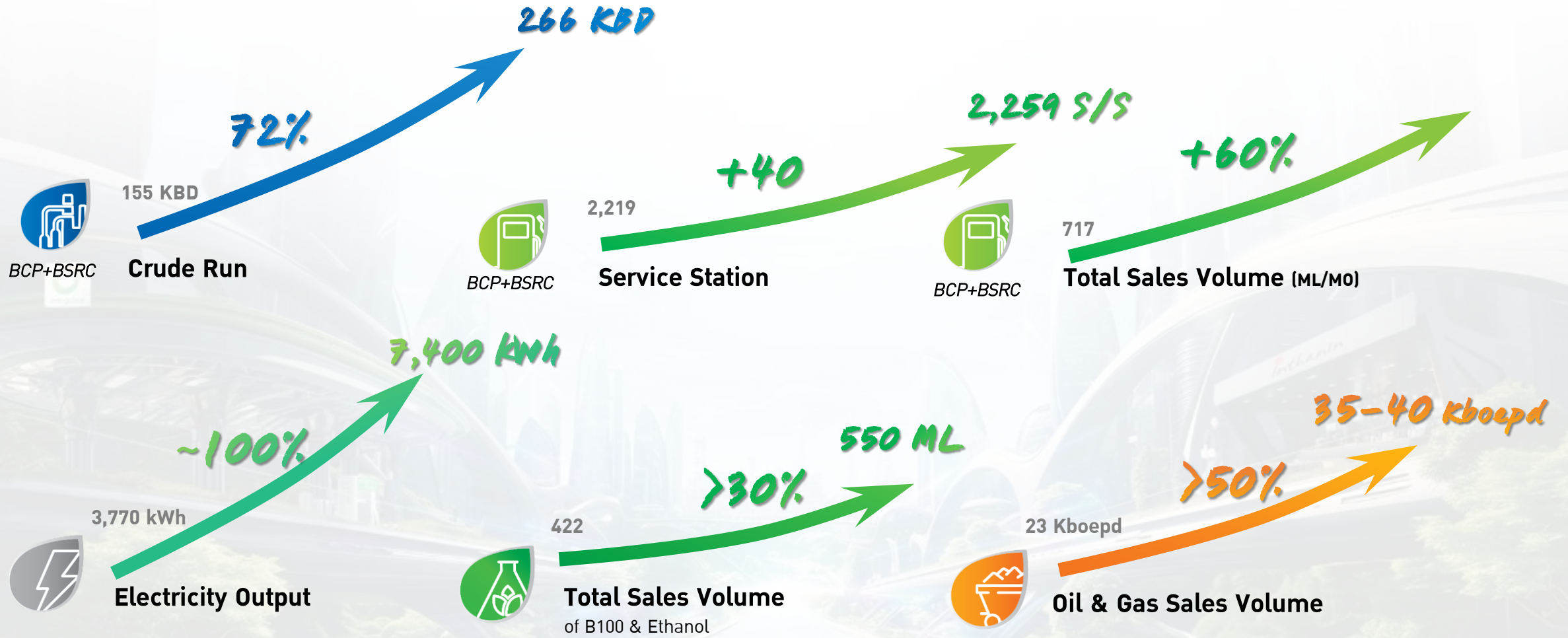
## *Creating a Better World*

-  Continue launching bio-products
-  Continue efficiency improvement for energy consumption reduction
-  Target for Net Zero in 2050



# Anticipating the Evolution of Success in 2024

## Driving Forces for sustainable Growth



# Crafting a Sustainable World with Evolving Greenovation

 <http://www.bangchak.co.th>

 Bangchak

 @Bangchak.WOW



Regenerative  
Happiness  
ส่งต่อ...ความสุขไม่สิ้นสุด



# Bangchak's Historical Dividend

**Dividend Policy:  $\geq 30$  percent of net profit after deduction of allocation of legal reserve**

However, this is subject to the economic situation, the Company's cash flow and investment plans of the Company and its subsidiaries according to the necessary, appropriation and other concerning as the Board of Directors' consideration.

**Dividend Payment**    ■ EPS   ■ 1<sup>st</sup> Half   ■ 2<sup>nd</sup> Half

Unit: THB per Share



## Dividend Yield

3.94%	3.21%	5.87%	5.74%	5.99%	3.76%	2.76%	2.01%	7.71%	7.25%	5.50%
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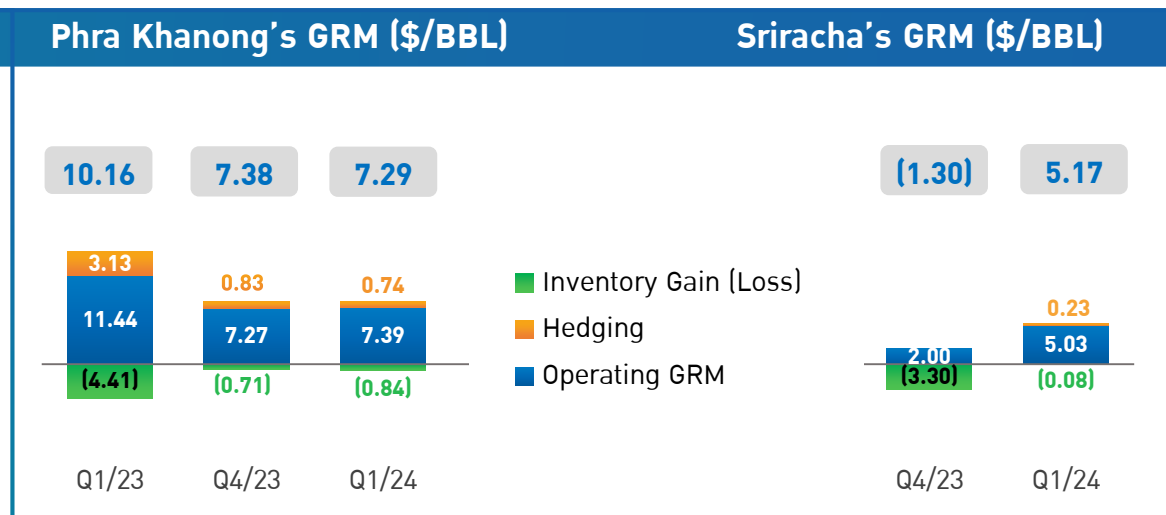
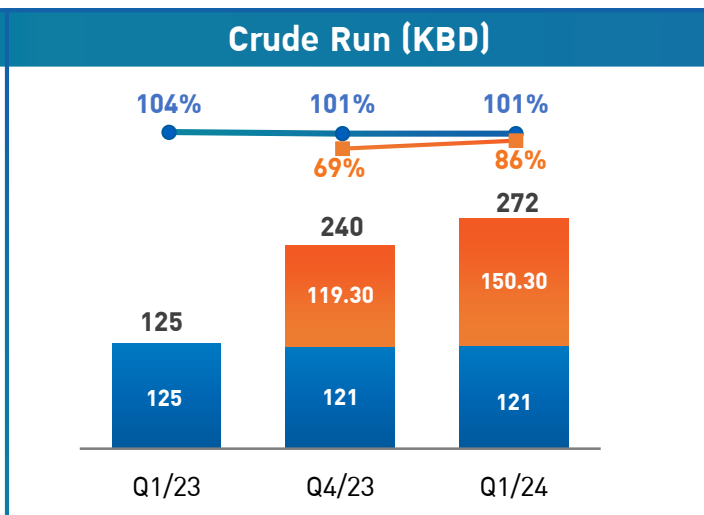
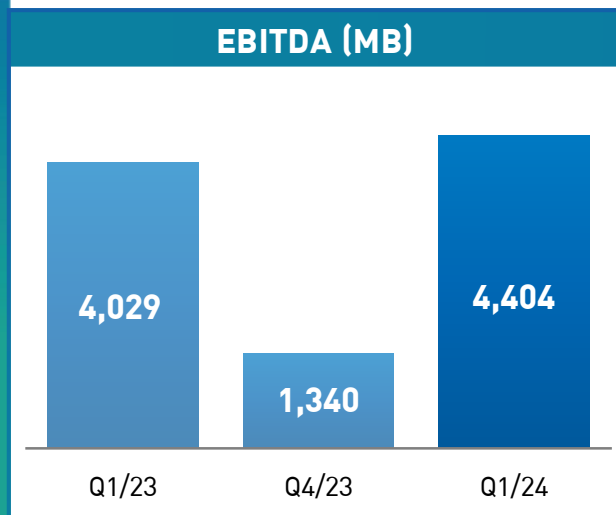
## Share Price\* (Baht/Share)

34.29	31.13	34.08	31.38	35.88	35.93	29.43	19.92	25.93	31.05	36.36
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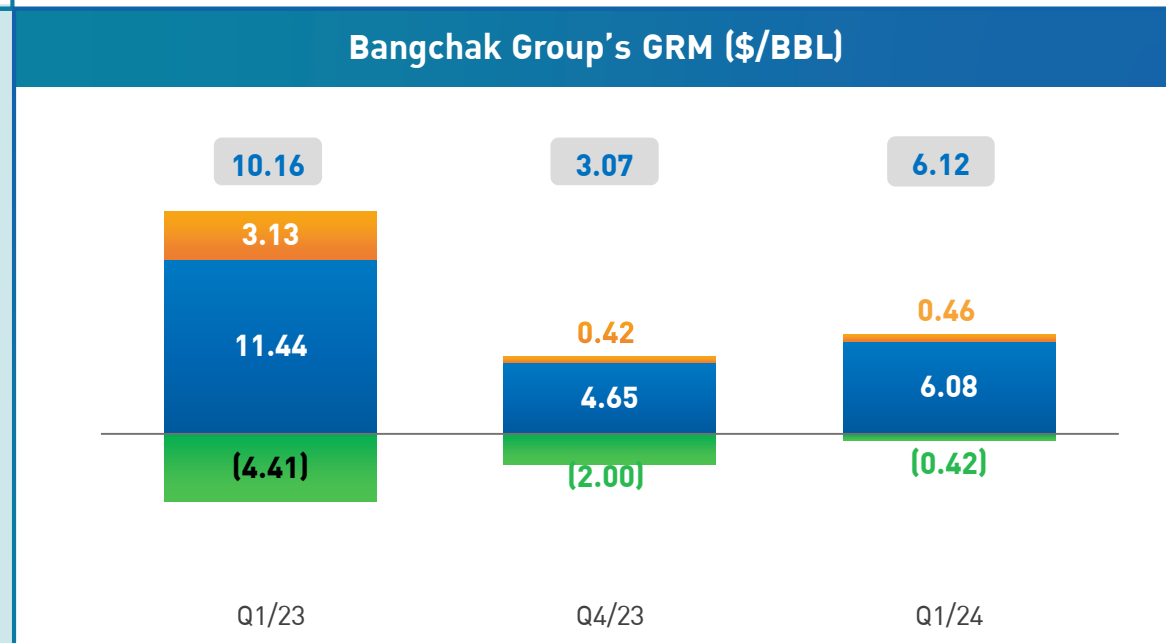
1 Jan 23 – 31 Dec 23



# Refinery and Oil Trading Business



- + Group's Refinery witnessed a significant increase in average production capacity, **reaching a record high of 271.7 KBD in Q1/2024**. This increase was primarily due to the enhanced production capacity of Sriracha Refinery, which rose from 119.3 KBD to 150.3 KBD.
- + **Pra Khanong Refinery reported a marginal improvement in operating Gross Refining Margin (GRM)**, attributed to the reduction in crude costs compared to the previous quarter. While **Sriracha Refinery: Reported improving operating GRM**, experienced a climb from US\$2.00/BBL to US\$5.03/BBL. This increase was supported by the highest production capacity (+26% QoQ) in Sriracha's history, along with the elevated crack spreads for the gasoline.
- + **Group's Inventory loss (Net NRV) of US\$ 0.42/BBL, (372) MB**, despite the positive momentum in the global crude market. This was primarily due to the high procurement of crude during the elevated crude prices in October 2023, resulting in the recognition of Inventory Loss. However, the negative impact was offset by the **Gain from fair value of oil hedging of US\$ 0.46/BBL** due to the downward trend in the crack spreads.



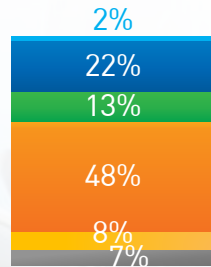


# Complementary Refinery Portfolio: Post-Integration

**Crude Run**  
(Utilization Rate)

Q1/24  
**Phra Khanong Refinery**

**121 KBD (101%)**

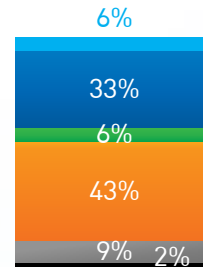


Q1/24

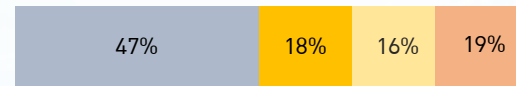
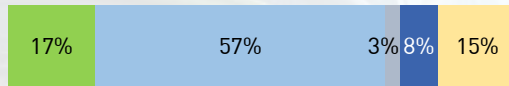
**Product Yield**

Q1/24  
**Sriracha Refinery**

**150 KBD (86%)**  
*The highest crude run in DEC23 at 144 KBD*



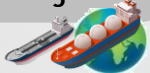
**Crude Source**



**~9 M.BBL**

**~16 M.BBL**

**BCPT**  
Oil Trading Volume



**Logistics**  
Integration

**Pipeline**

access from  
BKK-Northern



Phetchaburi, Si Chang  
**Seaport & Terminal**



**Pipeline**

access from Eastern to  
Northeastern

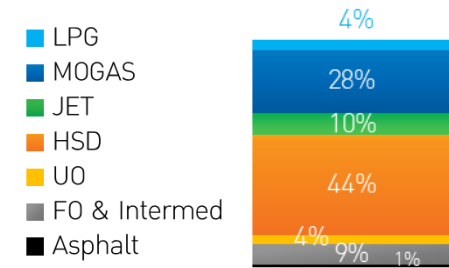


Sriracha  
**Deep Seaport & Terminal**

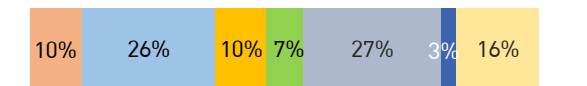


Q1/24  
**Bangchak Group**

**272 KBD (92%)**



Q1/24



Middle East Far East South East  
Domestic West African USA  
Others

**27 M.BBL (+49%)**

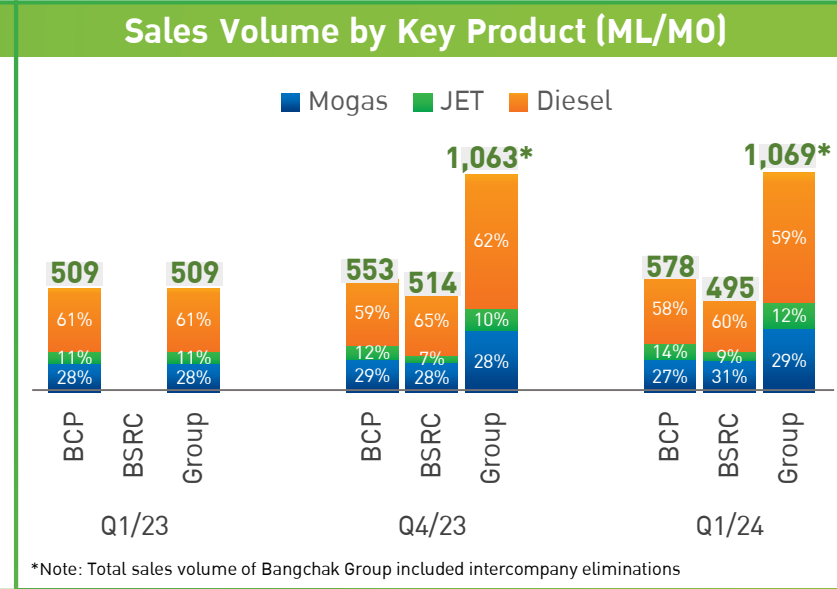
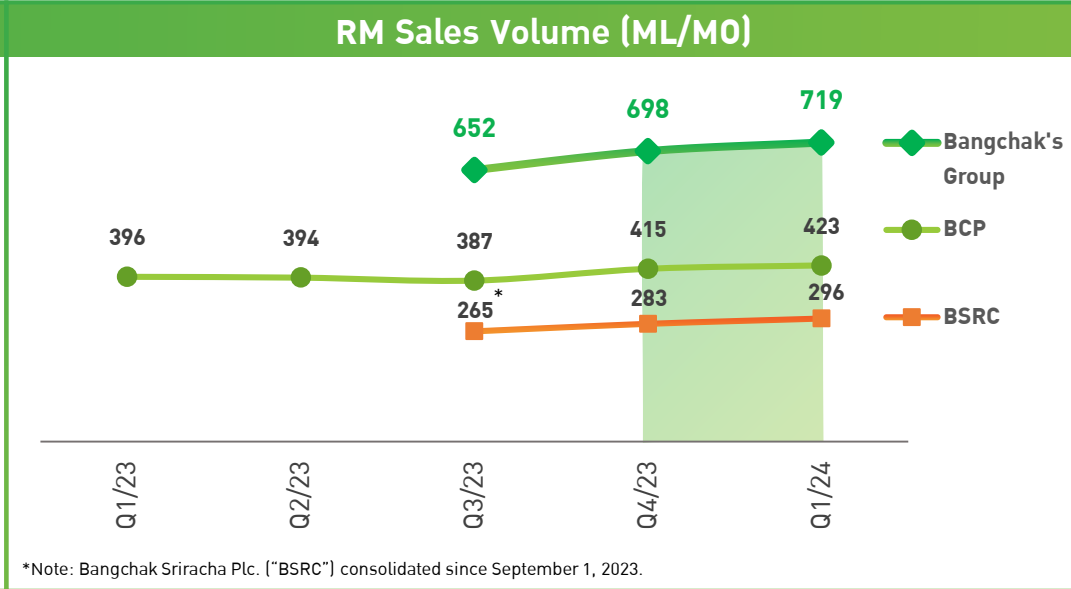
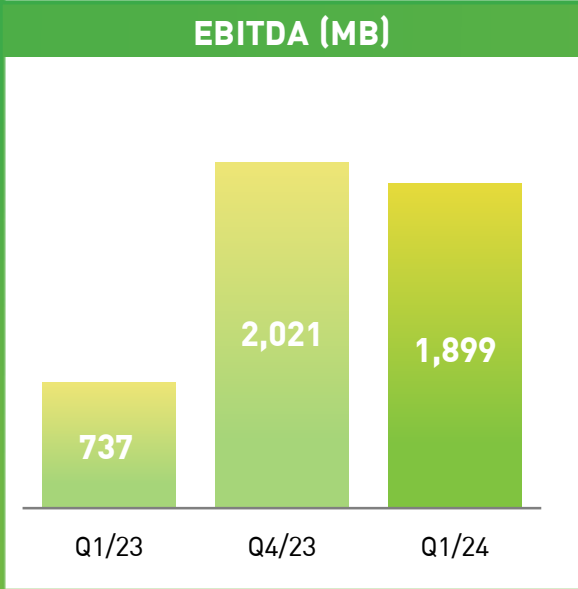
Include Out-Out Trading



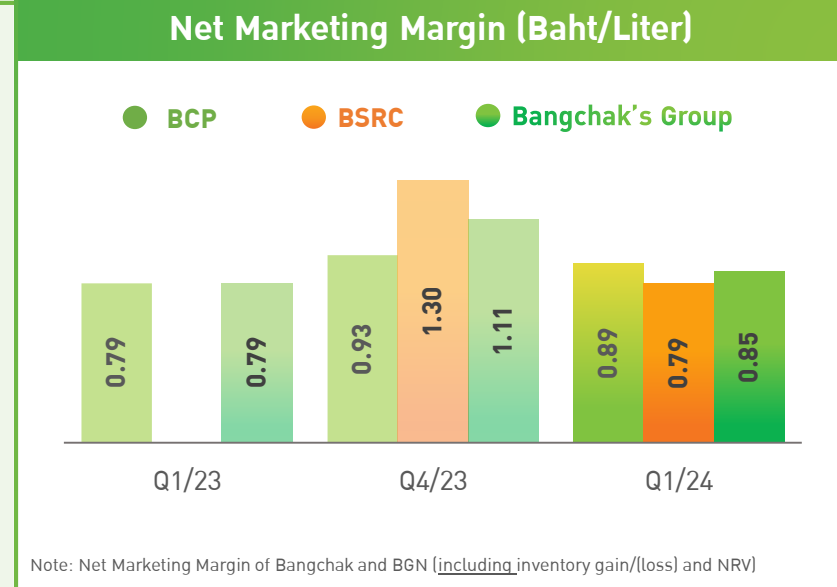
**Terminals**  
across Thailand



# Marketing Business



- +** Total sales volume reached a record high of 3,541 million liter (+5% QoQ), driven by growth in both the retail and industrial markets.
  - Retail sales volume experienced a surge, attributed to extensive network coverage, an effective marketing strategy, and the enhanced sales volume at service stations following the rebranding to the 'Bangchak' brand.
  - Sales volume in the industrial market saw an uptick, fueled by increased demand for jet fuel as travel activity continued to rebound.
- Softened Group's marketing margin due to higher product costs, particularly Euro 5, and the impact of inventory loss.



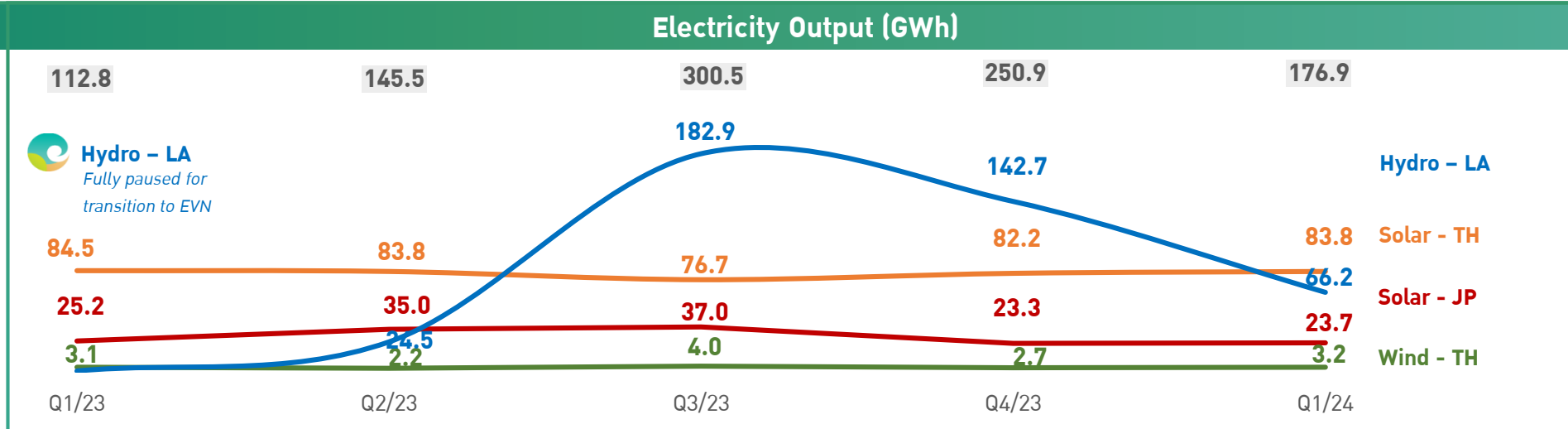
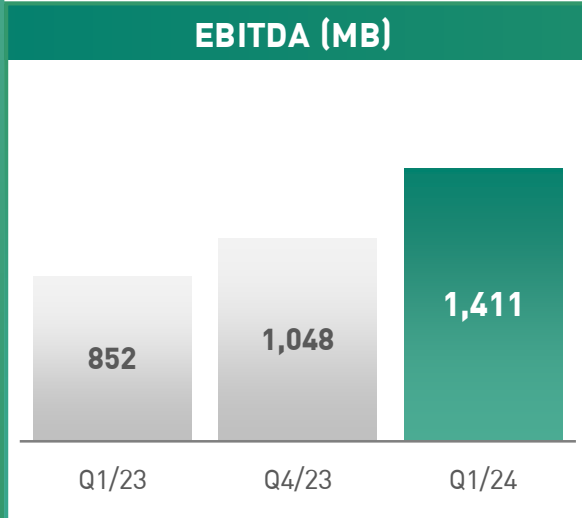


# Strengthening Marketing Portfolio

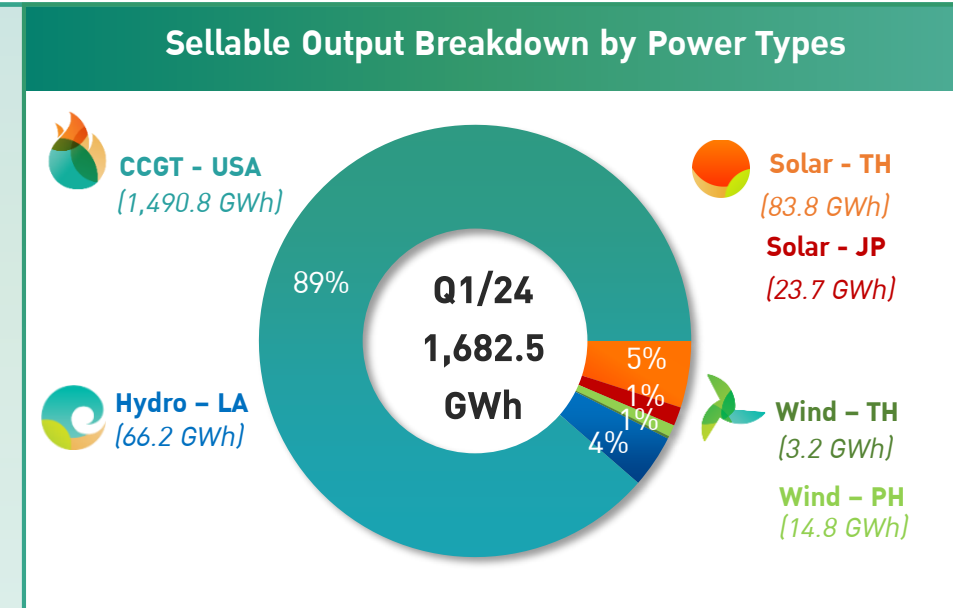




# Clean Power Business



- + EBITDA rose +35% QoQ**, mainly from
  - Higher share of profit, primarily due to operations of natural gas power plants in the United States, driven by an increase in profit per unit from Spark Spread, as well as, a reduction in maintenance shutdown days compared to the previous quarter.
- Marginal decrease of Electricity generation -1% QoQ**, mainly from
  - Laos hydropower plant** a slight reduction in electricity sales volume, influenced by seasonal factors combined with the impact of the El Niño phenomenon
  - Meanwhile**, electricity generation from solar power plants in Thailand and Japan increased due to seasonal factors, resulting in higher irradiation. Efficiency improvements implemented in the Thai solar power plant also contributed to this growth. However, in Q1/2024, the gradual phasing out of the adder program for Solar power plant projects in Thailand had a notable impact, totaling a reduction of 13 MW.



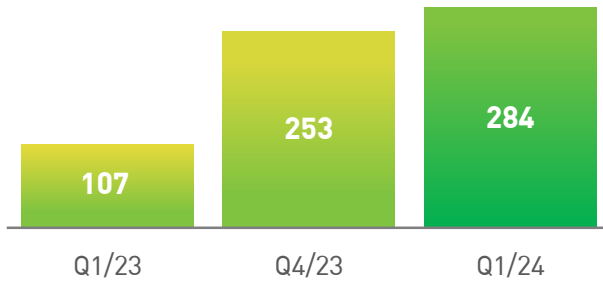




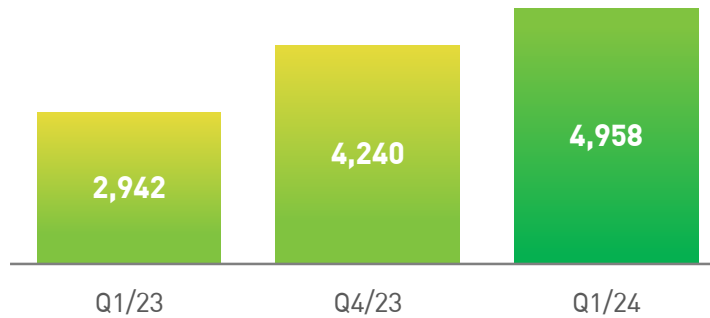
# Bio-Based Products Business



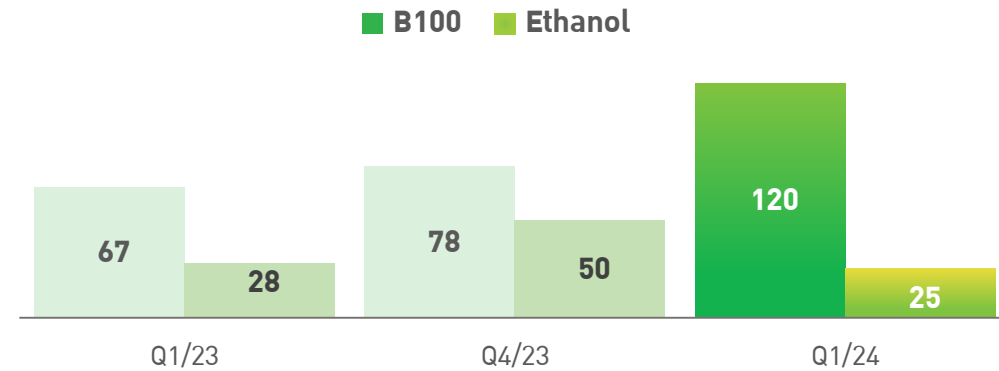
### EBITDA (MB)



### Revenue (MB)

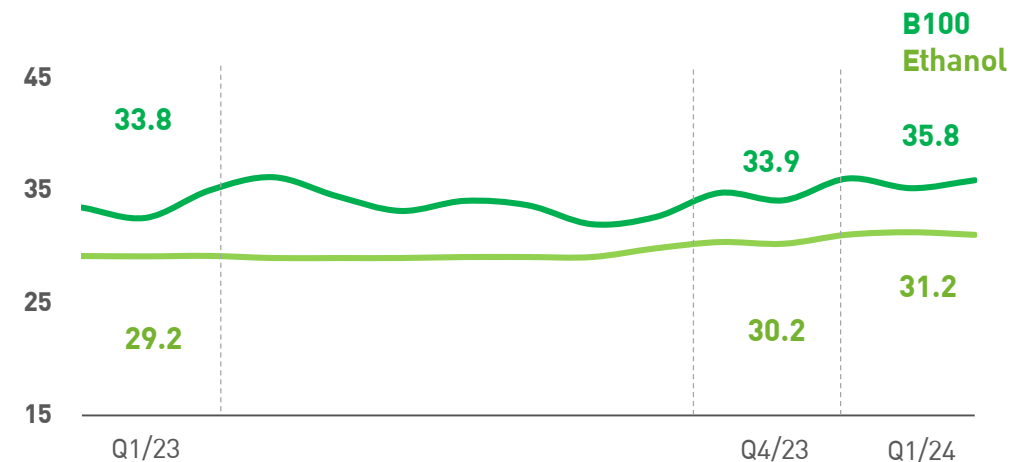


### Sales Volume (ML)



- +** Biodiesel business witnessed an increase in gross profit, due to rising biodiesel sales volume due to an increased demand from BSRC.
- +** Average B100 market price increased QoQ from 33.9 THB/Litre to 35.8 THB/Litre due to the global market's price dynamics, influenced by the low level of domestic oil palm production.
- While Ethanol business revenue declined QoQ, attributable to 25% decreased sales volume. This adjustment reflects our strategic sales management plan, in response to heightened raw material costs, including cassava and molasses, as well as low domestic sugarcane production, which was impacted by the effects of El Niño.

### Avg. Market Price (Baht/Liter)



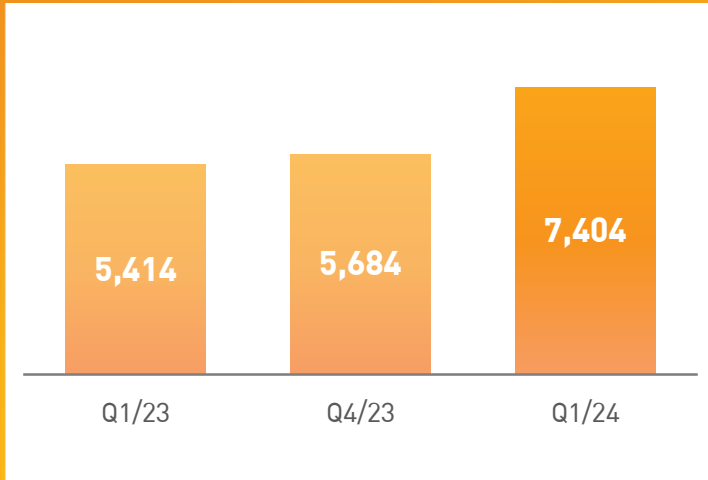
Source: EPP0



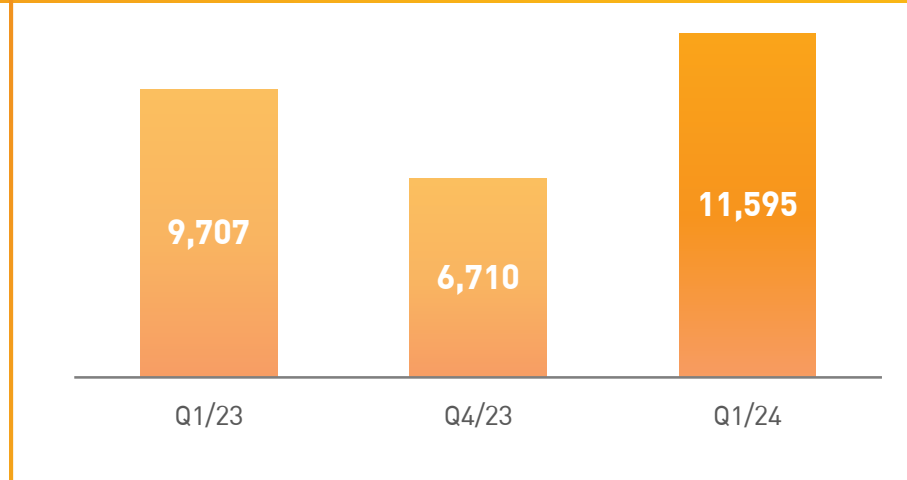
# Natural Resources Business



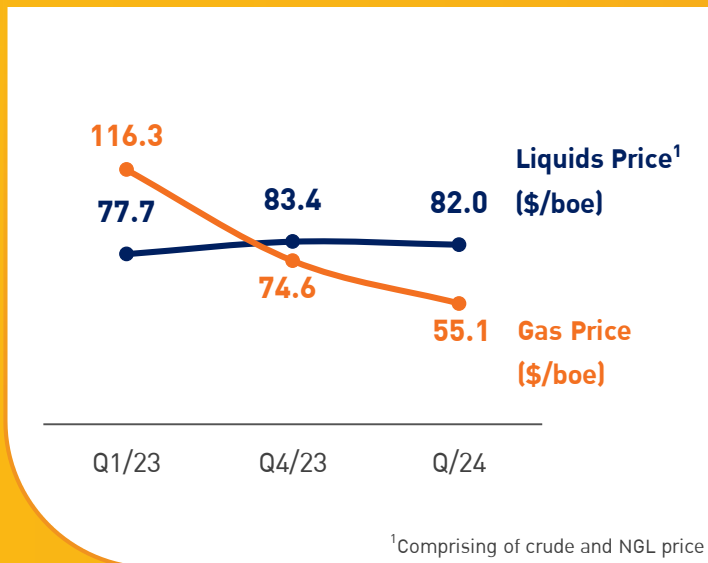
## EBITDA (MB)



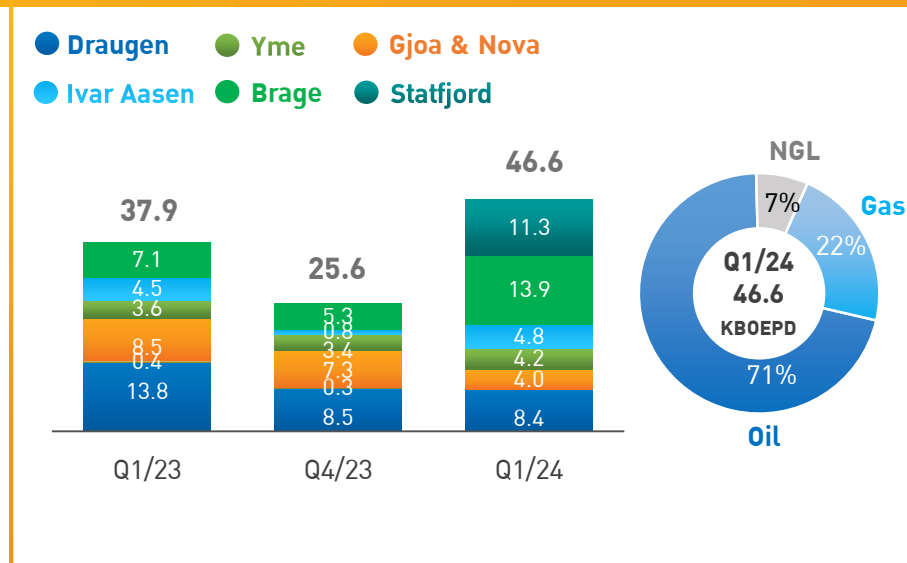
## Revenues from Crude Oil and Gas Sales (MB)



## Realized Price



## Sales Volumes (KBOEPD)

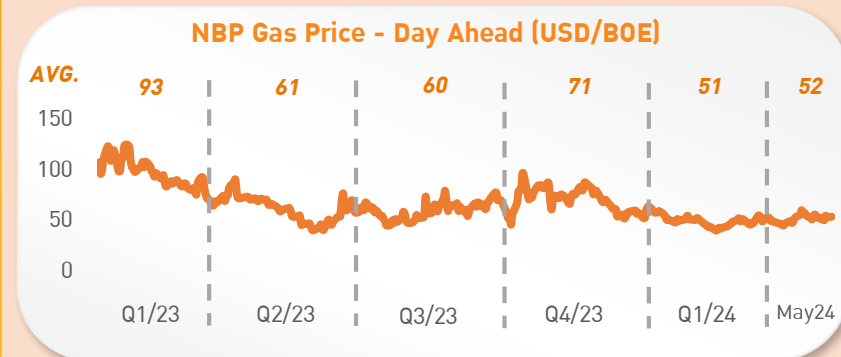


Natural Resources Business Group has once again reported another **Remarkable Record-High Operating Income and EBITDA**, supported by

- +** Sale volume grew by over 82% QoQ, due to
  - Full-quarter recognition from the recently acquired Statfjord field area
  - Additional volume generated from Hasselmus (an organic subsea project tie-back to the Draugen platform)
  - Overlifting position from the Brage field
- The company faces pressure from Statfjord impairments, mitigates with partial reversal of Yme fields impairment

**Statfjord:** Lower expected production in 2024 following a dry well drilled in late 2023

**Yme:** Reversal of after-tax impairment, driven by positive market price developments of crude oil during the quarter and a decrease in expected discount for Yme crude





# EBITDA Structure (Consolidated)

Unit: THB Million	Q1/2023	Q4/2023	Q1/2024	QoQ	YoY
<b>Total Revenue</b>	<b>80,538</b>	<b>142,922</b>	<b>135,382</b>	<b>-5%</b>	<b>68%</b>
Refinery and Trading Business <sup>1/</sup>	66,132	213,913	202,628	-5%	>100%
Marketing Business <sup>2/</sup>	49,220	97,240	99,592	2%	>100%
Clean Power Business <sup>3/</sup>	1,057	1,318	1,194	-9%	13%
Bio-Based Products Business <sup>4/</sup>	2,942	4,240	4,958	17%	69%
Natural Resources Business <sup>5/</sup>	9,772	6,710	11,595	73%	19%
Eliminations and others	(48,585)	(180,499)	(184,585)	-2%	<-100%
<b>Accounting EBITDA</b>	<b>10,992</b>	<b>10,310</b>	<b>15,308</b>	<b>48%</b>	<b>39%</b>
Refinery and Trading Business	4,029	1,340	4,404	>100%	9%
Marketing Business	737	2,021	1,899	-6%	>100%
Clean Power Business	852	1,048	1,411	35%	66%
Bio-Based Products Business	107	253	284	12%	>100%
Natural Resources Business	5,414	5,683	7,404	30%	37%
Eliminations and others	(147)	(36)	(94)	<-100%	36%
<b>Profit attributable to owners of the parent</b>	<b>2,741</b>	<b>(977)</b>	<b>2,437</b>	<b>&gt;100%</b>	<b>-11%</b>
<b>Earnings (Loss) per share (Baht)</b>	<b>1.91</b>	<b>(0.82)</b>	<b>1.68</b>		

Note: 1/ EBITDA from Refinery and Trading Business of the company (BCP) and Bangchak Sriracha Plc. (BSRC) (consolidated since September 1, 2023), BCP Trading Pte. Ltd. (BCPT), Bangchak Fuel Pipeline and Logistic Co., Ltd. (BFPL), BSGF Co., Ltd (BSGF) and others

2/ EBITDA from Marketing Business of the company (BCP) and Bangchak Sriracha Plc. (BSRC) (consolidated since September 1, 2023), Bangchak Green Net Co., Ltd. (BGN), Bangchak Retail Co., Ltd., (BCR) and others

3/ EBITDA from Clean Power Business of BCPG Plc. (BCPG Group)

4/ EBITDA from Bio-Based Products Business of BBGI Plc. (BBGI Group)

5/ EBITDA from Natural Resources Business of OKEA ASA (OKEA), BTSG Co., Ltd. (BTSG), and others

# Profit and Loss (Consolidated)

Consolidated Statement of Income (THB Million)	Q1/2023	Q4/2023	Q1/2024	QoQ	YoY
Revenue from sale of goods and rendering of services	80,538	142,922	135,382	-5%	68%
Cost of sale of goods and rendering of services	(72,228)	(135,236)	(123,393)	-9%	-71%
<b>Gross Profit</b>	<b>8,309</b>	<b>7,686</b>	<b>11,989</b>	<b>56%</b>	<b>44%</b>
Other income	627	851	771	-9%	23%
Selling and administrative expenses	(1,860)	(4,269)	(2,884)	-32%	55%
Exploration and evaluation expenses	(78)	(72)	(169)	37%	>100%
Gain (loss) from derivatives	1,225	(1,266)	(662)	>100%	<-100%
Gain on foreign exchange	292	(22)	84	<-100%	-71%
Gain (loss) from fair value adjustment of contingent consideration	(52)	78	(31)	>100%	41%
Reversal of (loss) from impairment of assets	(412)	(6,190)	(536)	91%	-30%
<b>Profit from operating activities</b>	<b>8,052</b>	<b>(673)</b>	<b>8,563</b>	<b>&gt;100%</b>	<b>6%</b>
Finance costs	(1,032)	(1,634)	(1,709)	5%	66%
Impairment gain and reversal of impairment loss (impairment loss) determined in accordance with TFRS 9	10	(5)	(67)	<-100%	<-100%
Share of profit (loss) of associates and joint ventures accounted for using equity method	29	139	547	>100%	>100%
<b>Profit (loss) before income tax expense</b>	<b>7,059</b>	<b>(2,172)</b>	<b>7,334</b>	<b>&gt;100%</b>	<b>4%</b>
Tax expense	(3,689)	(1,193)	(4,544)	<-100%	-23%
<b>Profit (loss) for the period</b>	<b>3,370</b>	<b>(3,365)</b>	<b>2,790</b>	<b>&lt;-100%</b>	<b>-17%</b>
<b>Owners of the parent</b>	<b>2,741</b>	<b>(977)</b>	<b>2,437</b>	<b>&gt;100%</b>	<b>-11%</b>
Non-controlling interests	629	(2,388)	353	>100%	-44%
<b>Basic earnings per share (Baht)</b>	<b>1.91</b>	<b>(0.80)</b>	<b>1.68</b>		



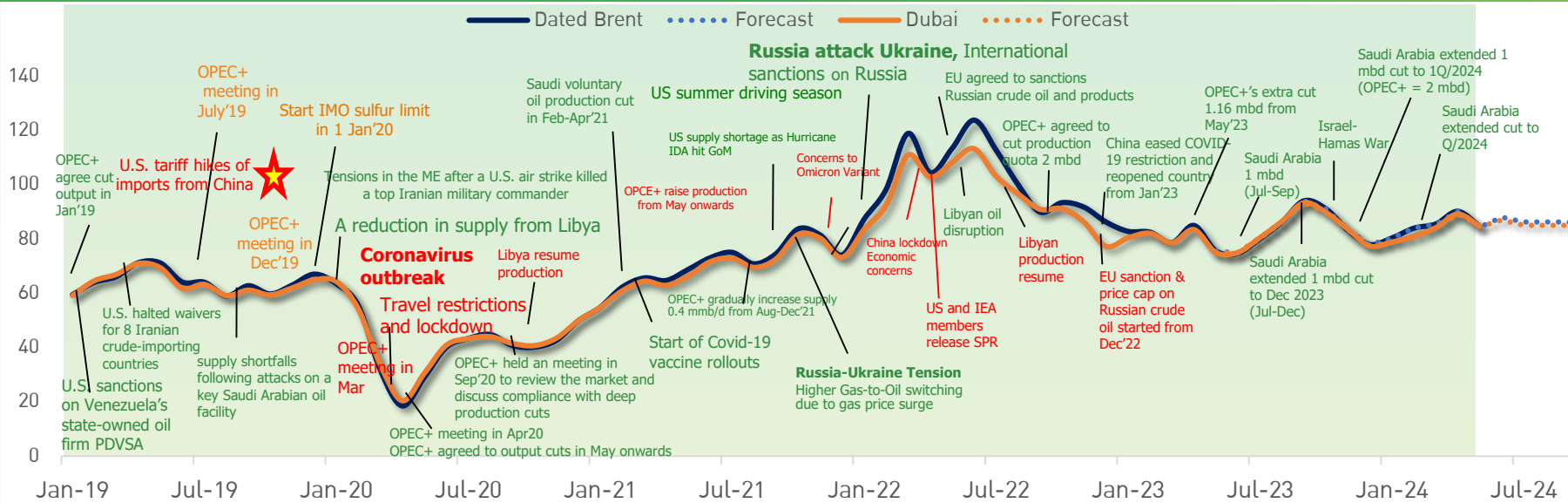
# Financial Ratio (Consolidated)

	Q1/2023	Q4/2023	Q1/2024
<b>Profitability Ratios (%)</b>			
Gross Profit Margin	10.34%	5.61%	9.37%
EBITDA Margin	13.69%	7.44%	11.97%
Net Profit Margin	4.19%	-2.46%	2.18%
Return of Equity (ROE)	17.76%	19.63%	18.39%
<b>Efficiency Ratio (%)</b>			
Return on Assets (ROA)	12.39%	8.80%	9.02%

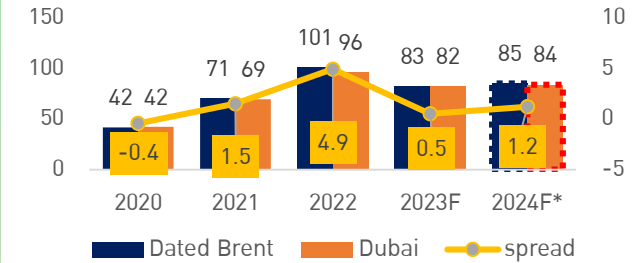
	31 Mar 23	31 Dec 23	31 Mar 24
<b>Liquidity Ratios (Times)</b>			
Current Ratio	2.50	1.39	1.38
Quick Ratio	1.67	0.79	0.70
AR Turnover	24.41	20.10	23.99
Collection Period (days)	15	18	15
AP Turnover	17.06	17.02	16.28
Payment Period (days)	21	21	22
<b>Leverage Ratios (Times)</b>			
Net Interest-bearing Debt to Equity	0.35	0.91	0.91

# Crude Oil Price Outlook : Crude price move around 80-90 \$/BBL in 2H24, Price will be pressured by global economic slowdown weighing on oil demand particular in US and China. However, OPEC continues stabilizing the market by keep reducing supply further into 2024 and uncertainty over geopolitical tensions

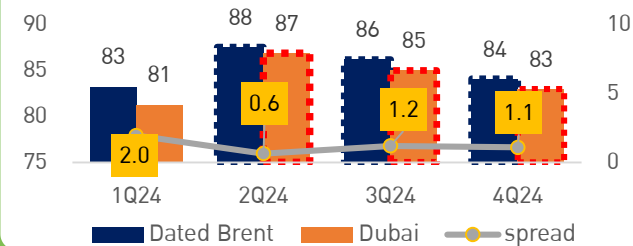
## Dubai and Dated Brent-Dubai Spread



Dated Brent, Dubai Crude Price (\$/BBL)



Dated Brent, Dubai Crude Price (\$/BBL)



### Focus on 2H24:

- Concern on economic slowdown in key markets, especially in US China.
- Continuing Supply Growth from Non-OPEC like US.
- Crude supply tightening as OPEC+ likely to extend current cuts into 2H24 to support price
- Uncertainty over geopolitical tensions.
- Oil demand during Summer driving season
- Heating oil demand during winter

### Market Highlights in 2024:

- Oil market tightening due to expectation that OPEC+ and Saudi Arabia will continue stabilizing the market
- Ongoing geopolitical tension and potential impact to supply.
- China uncertainty, Economic Situation, Real Estates Crisis and Recovering Traveling Activities.
- Global economic uncertainty especially US as FED likely to keep rate higher for longer, weighing oil demand.
- Continuing Supply Growth from Non-OPEC.

### Dated Brent – DB Spread 2H24

- 2H24 spread is likely to be slightly wider due to high crude run in Europe seasonally and high heating oil demand in winter
- Europe's weak economy pressuring on oil demand
- High supply in European region especially from US
- OPEC+ and Saudi Arabia likely to extend production cut policy into 2H24 (Stronger DB)

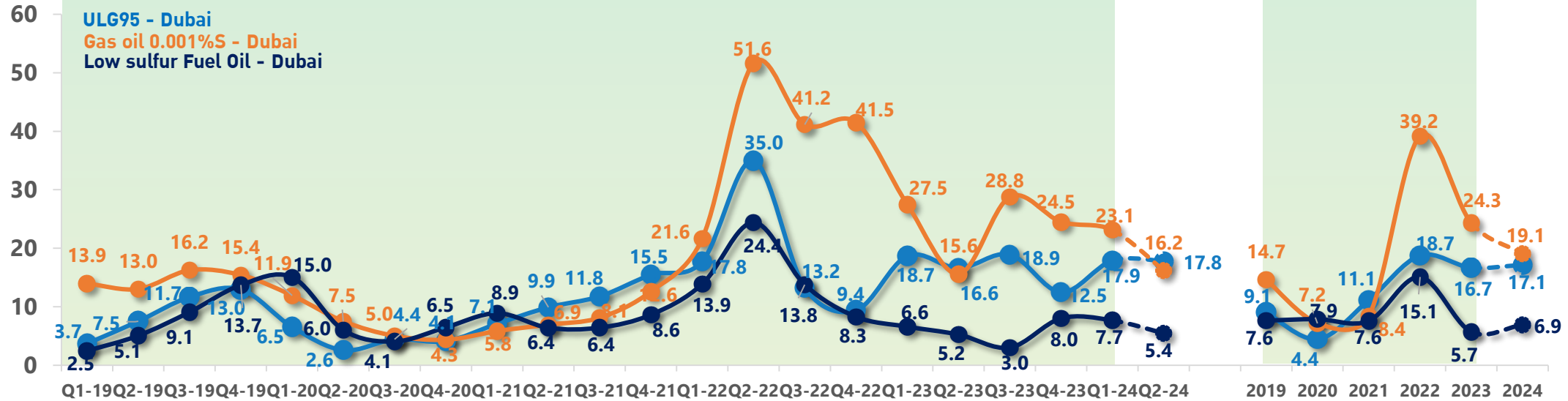


# Oil Outlook

Summer driving season in the U.S. will drive up gasoline cracks amid low inventory and the limited China's gasoline export. Stable Gasoil crack as global economic slowdown and supply continued to outstrip demand. However, the geopolitical tensions in the Middle East could limit the downside. Higher Low Sulfur Fuel Oil crack due to lower supply as AL Zour will lower export during summer while bunkering demand will increase in year end seasonally



## Singapore Product Cracks Spread Outlook : \$/BBL



## Focus on 2H24:

- Gasoline crack will drive up by summer driving season in the U.S. and lower China's gasoline exports as demand increasing, but gains were capped by a rise in retail price will weigh on demand amid holidays tapers off in Asia.
- Gasoil crack will be stable as global economic slow down and ample supply while high freight rate are the barrier to move cargoes from Asia to Europe, but downside is limit by the ongoing geopolitical tension in the Middle East.
- Low Sulfur Fuel oil crack will be stable as seasonal bunker demand decrease will be offset with higher bunker demand from Red sea crisis. However, upside is limited as Al Zour refinery expected to export more in 2024.

## Market Highlights in 2024:

- Expected demand growth to remain solid by Asian oil demand to continue drive global oil demand growth in 2024.
- China and South Asia, especially in India will drive Asia's refined oil product demand growth. However, China uncertainty, Economy, Real Estates Crisis and Recovering Traveling Activities.
- Concern over the slowdown economic due to high interest rates in several countries will weigh on demand.
- New refinery projects will ramp up, mostly in Asia and Middle East.
- Kuwait Al Zour refinery will lower export for domestic use during summer.
- High bunker fuel demand seasonally during year-end.
- Red Sea crisis could lead to higher bunker fuel demand.

# Strong Foundation for Value Creation



**E&P Business**

**Providing Energy  
Security**



**Return  
Optimization**

- Synergy Realization
- Shareholder Return



**Platform  
for Growth**

- To Run Multi-Refineries
- Shared Services



**Commitment  
to Net Zero**

**In 2050**



**Financial Discipline**

**Strong financial management practices to ensure stability and growth**



# Bangchak Pathway to Net Zero 2050

Target Carbon Neutrality by **2030**  
Target Net Zero by **2050**



## Breakthrough Performance 30%

Efficiency and Process Improvement

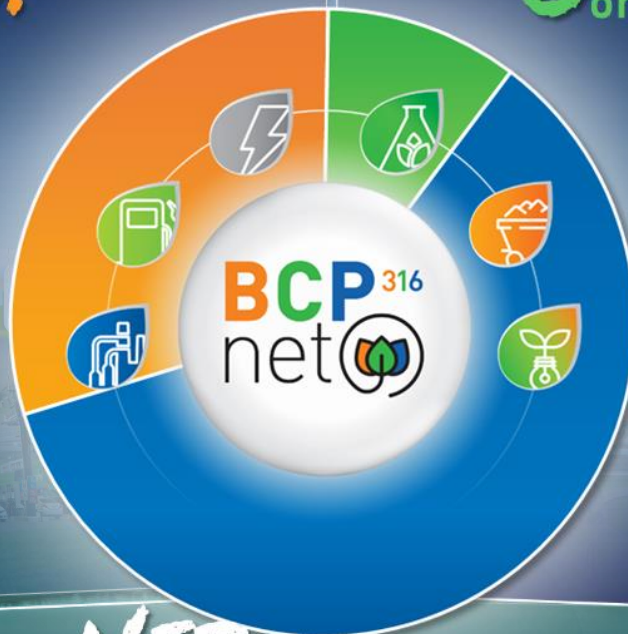


Energy Intensity Index: EII

97.5 → 90.5

Emphasizes high quality production processes, efficiency enhancements for **Low Carbon**

- Niche Product
- Furnace Coating
- Solar Roof



## Conserving Nature and Society 10%



100,000 tCO<sub>2</sub> e/yr in 2030 onward

Focusing on **Agricultural, reforestation and Mangrove reforestation** campaigns

## Proactive Business Growth & Transition 60%

Green Portfolio, Future Technology, Carbon Capture and Utilization

Partnering with



## NET Zero Ecosystem



**Winnonie**

EV-Bike Platform & Battery Swapping Station

FY 2022 : 422 user, 100 stations

22,000 Users 1,000 Stations in 2025

**bsgf**



Thailand first

Sustainable Aviation Fuel Producer  
7 KBD or 1 ML/D  
COD Q4/2024

CO<sub>2</sub> Reduction 80%  
Compared to Conventional JET Fuel

**btsg**

One-Stop Solution Provider

For LNG Supply & Integrated system for logistic and industrial customer

CO<sub>2</sub> 20% less CO<sub>2</sub> compared to Diesel

**bfpl**



BFPL's fuel transportation business, providing low-carbon fuels

CO<sub>2</sub> 30,000 tCO<sub>2</sub> e/ year



Carbon credit linked FX with Kasikorn Bank



# Business and Sustainability Strategies

## 4G Sustainability Strategies



## 4S Business Strategies



## Sustainability Performances

**Economic Dimension**

**Environment Dimension**

**Social Dimension**

**Sustainability Report**