



รังสรรค์โลกยั่งยืนด้วยนวัตกรรมสีเขียว

Crafting a Sustainable World
with **Evolving Greenovation**

Sustainability Award

S&P Global

"Top 3"

Company globally in the Oil & Gas
Refining and Marketing Industry

MSCI

ESG RATINGS



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



Bangchak Corporation Public Company Limited

SET Awards Interview: 14 September 2023

Bangchak Corporation Public Company Limited



Chaiwat Kovavisarach
Group Chief Executive Officer
and President



Gloyta Nathalang
Executive Vice President,
Corporate Branding, Communication and
Sustainability Activation



Narupan Suthamkasem
Executive Vice President,
Corporate Strategy and Sustainability



Nintira Abhisinha
Senior Vice President,
Corporate Sustainability Development and Standard



Anekpracha Kaewmanee
Acting Vice President,
Refinery Strategic and Business Development



Prapasri Puntujariya
Manager,
Sustainability Management Division

Vision, Mission and Core Value



Vision วิสัยทัศน์

รังสรรค์โลกแห่งนวัตกรรมสีเขียว
Crafting a Sustainable World
with **Evolving Greenovation**



We commit to accelerate **sustainable energy transition**, while **balancing energy security**. We are energizing lives through **greenovative solution** and **promoting ESG for all**.

เรามุ่งมั่นขับเคลื่อนการเปลี่ยนผ่านด้านพลังงานอย่างยั่งยืน โดยคงไว้ซึ่งสมดุลแห่งความมั่นคงทางพลังงาน เสริมสร้างคุณภาพชีวิตและความเป็นอยู่ที่ดี ด้วยนวัตกรรมโซลูชันสีเขียว ดำเนินธุรกิจด้วยความคำนึงถึง เศรษฐกิจ สิ่งแวดล้อมและการกำกับดูแลกิจการ อย่างมีความรับผิดชอบต่อทุกภาคส่วน

Mission พันธกิจ

Core Values ค่านิยม

iambcp

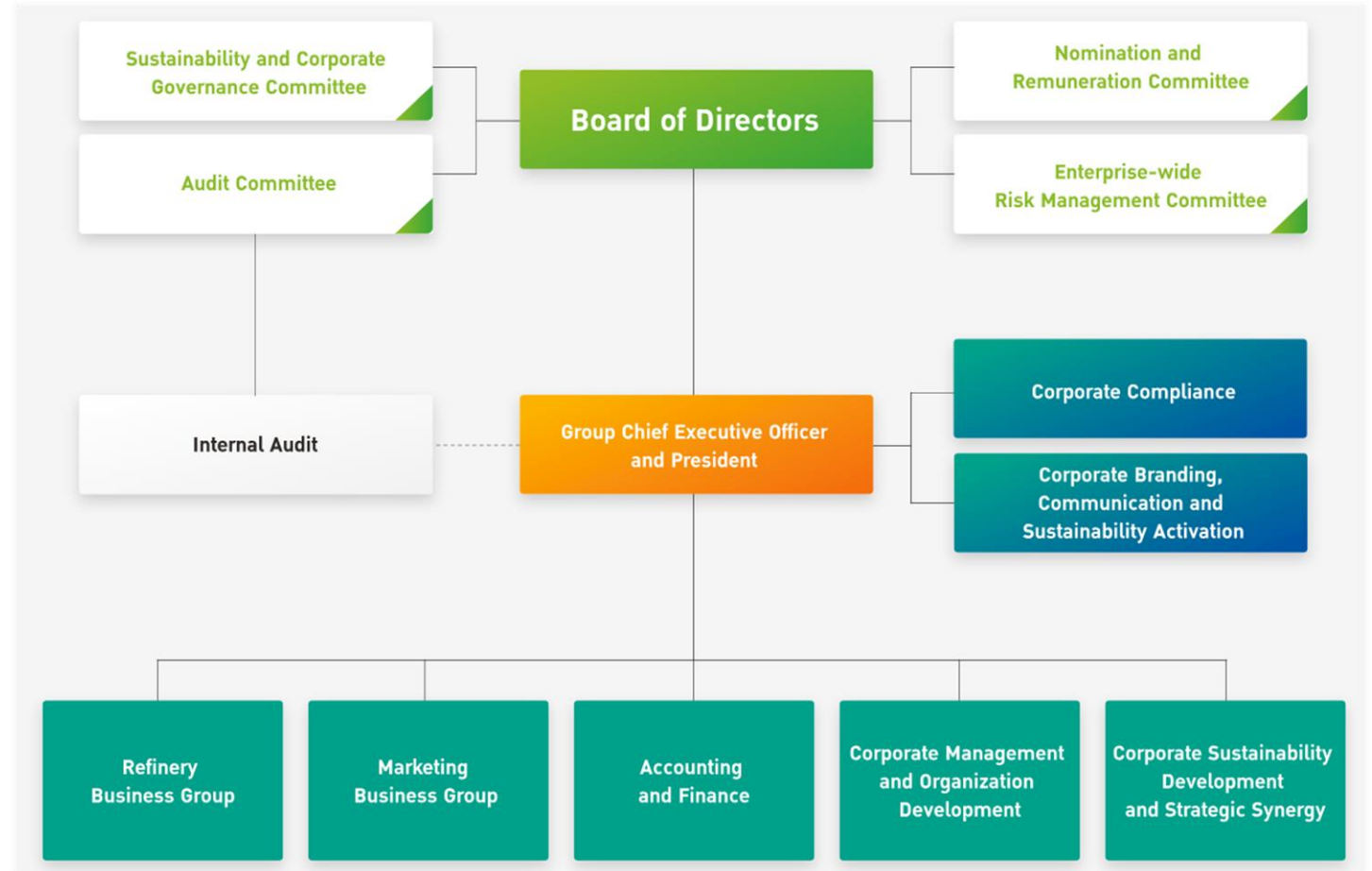


สร้างสรรค์สิ่งใหม่ • พร้อมใจเปลี่ยนแปลง • กล้าคิด กล้าทำ กล้าตัดสินใจ • เข้าใจลูกค้า • ทุ่มเทด้วยใจและมีความเป็นเจ้าขอ

Governance Structure



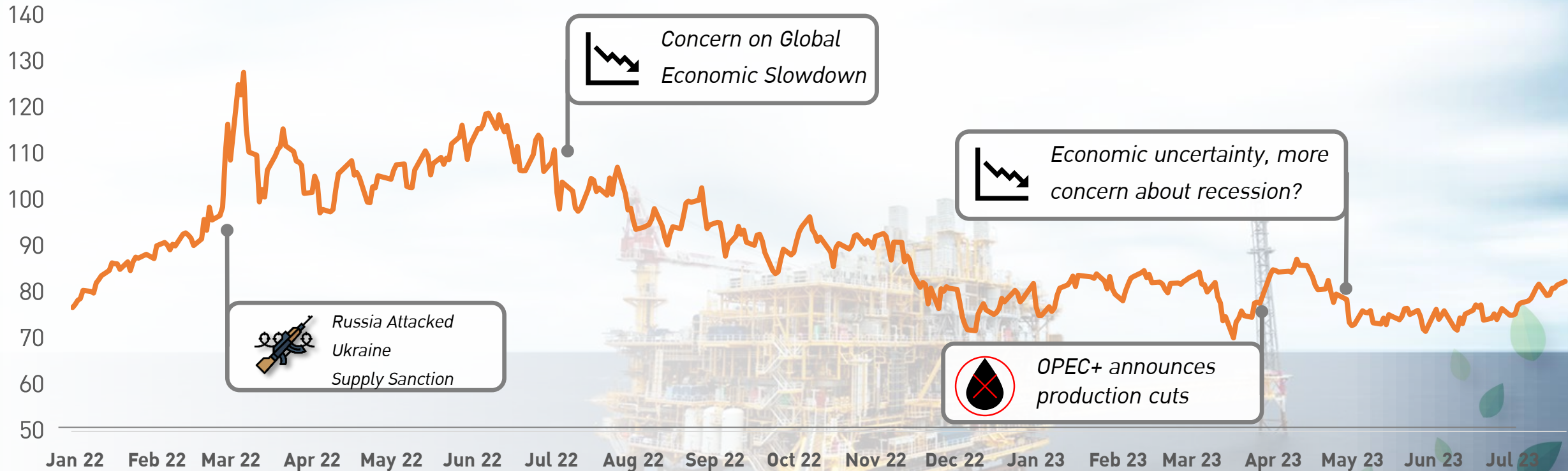
- All listed subsidiaries have established CG policies to ensure that business activities are transparent and free of corruption.
- **Bangchak Group Way of Conduct** as tool for managing and governing the businesses of Bangchak Group for harmonious alignment with Bangchak policies and directions as well as applicable laws, including ;
 - 1) Corporate planning, compliance and business development
 - 2) Accounting and finance
 - 3) General operational support and corporate image



Oil Price Fluctuation Situation



Dubai Crude (\$/BBL)



Supply Chain Risk Management

Stable high oil supply
“Energy Security”

Business Process Redesign

Benefit 2,138 MB in 2022
(Target 1,300)

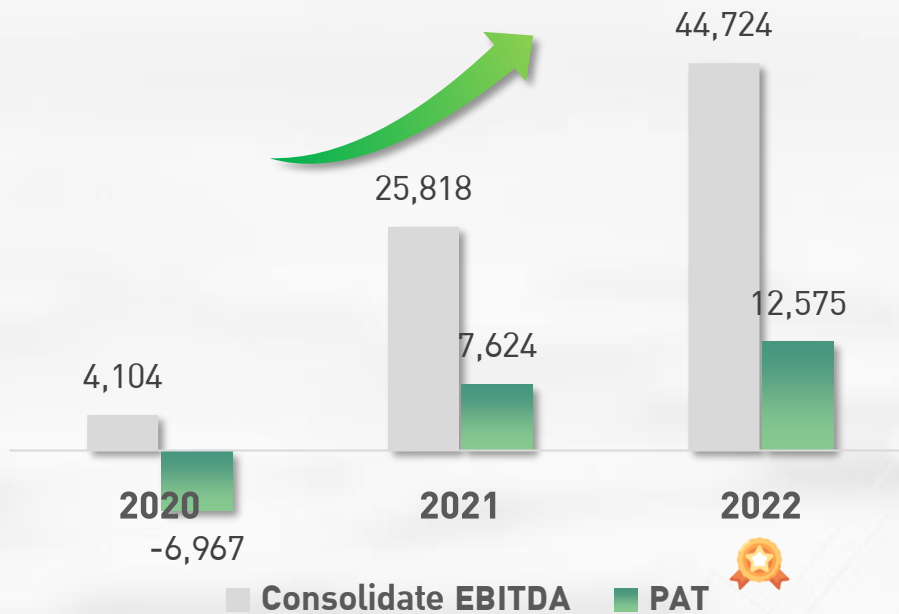
Inventory Management

Monitoring crude and products
inventory

Highlight of 2022



Bangchak Group's new high record



- High crude run at an average of **123 KBD**
- Increase UO (niche product) yield to **11%**



- High record EBITDA Marketing Business Group **2,909 MB**
- New high oil retail volume **464 ML/MO**
- Expand no. of customer's touch points



- Secure upstream from acquisition Wintershall Dea **+7 kboepd** (completed in 2022)



bcp

- COD of **65 MW** new Solar plant in Japan
- Total **1,259.6 MWppa**



bbgi

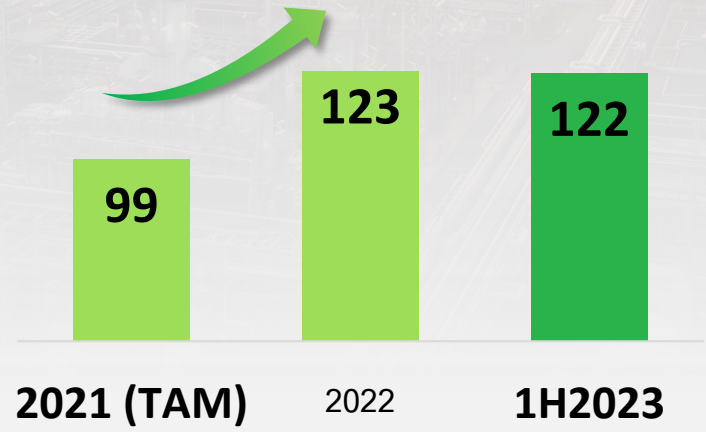
IPO to support the development of high-value-added bio-based products

Highlight of 1H2023



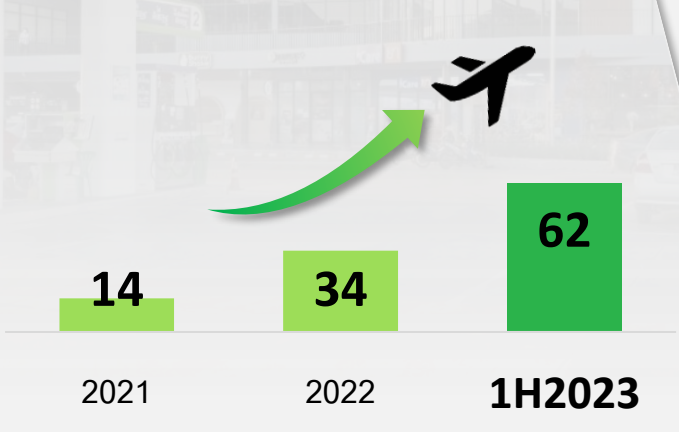
Maintain high crude run,
101% capacity

Crude Run (KBD)



Rebound of Jet fuel,
82% increase from 2022

Jet Sale Volume (ML/Mo)



New Products

Hi Premium 97

Gasohol 95++

High-octane Gasohol



Competitiveness Excellence by the fast-evolving and innovation-driven as a NORM towards success performance outcomes



FIRST
TQA in Thailand Refinery



Resilience

Breaking capacity of
123 KBD



Innovation

Strategy in Niche
Product Market



Equity and Inclusion

Multi cross-functional
team



Digitization

Integrated system in
supply chain



Societal Contribution

Green Products
Green Processes

Unparalleled Excellence




Global Performance Excellence Award 2023
"WORLD CLASS"

The First Thai Organization from the Industrial Sector &
The World's First and Only Refinery to Receive this World Class Level Quality Award

Strategic move of Bangchak Group



bfpl 
Founding of Fuel transportation
business


Bangchak New Corporate Identity

FIRST
SAF
bsgf



The construction of the Sustainable
Aviation Fuel (SAF) production unit
Production Capacity **1 ML/D**


**Acquire 65.99% Esso
Thailand's Share**

Completed Majority Stake Purchasing and
To complete Tender Offering for the
remaining ETL shares in 2H 2023

2022 

 ~ 30,000 tCO2eq./Y
(6,000 ML/Y)

 **857.0 MW_{ppa}**


BCPG invests in

Natural Gas Power Plants in USA **+857 MW_{ppa}**
Including RE, total Power Capacity **2,025 MW_{ppa}**

2023 








Tender offer period 25-45 business days⁽¹⁾



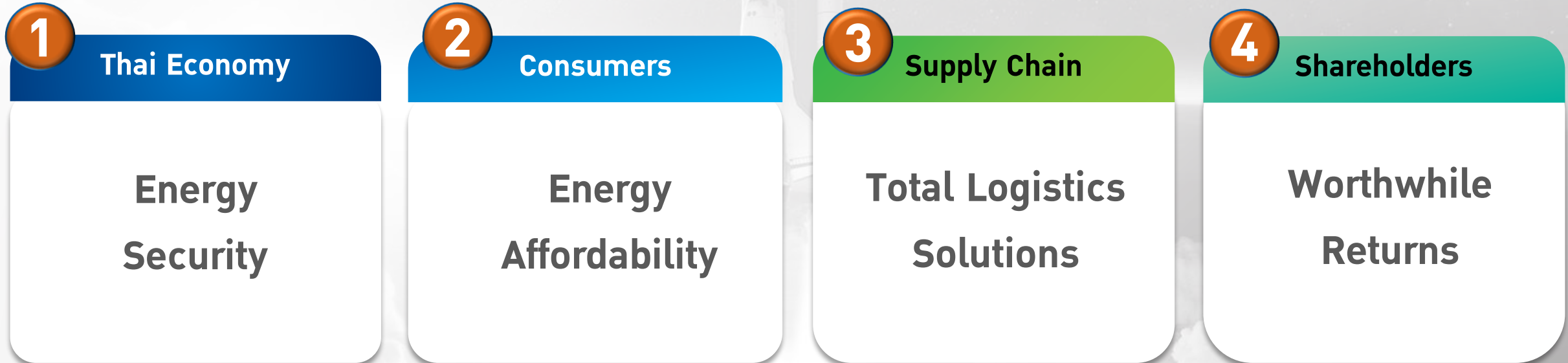
bangchak

Together, *to* Greater



Strategic Rationale to integrate with Esso Thailand

Significant Synergy will benefit ...



1. Thai Economy: Energy Security



Hydrocracking (HCU)

2 Strategically located refineries

Name Plate Capacity

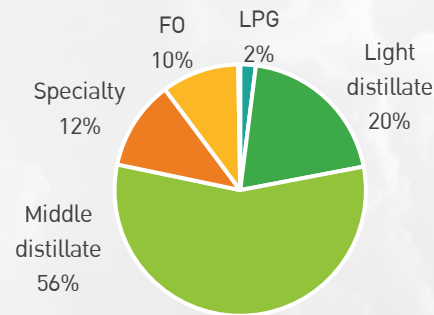
FY22 Avg. Utilization Rate

Technology



Fluidized Catalytic Cracking (FCC)

Middle Distillate

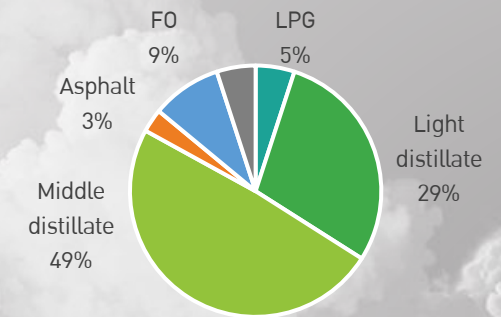


Import of Jet & Gasoline

Product Yield Maximization

Reducing in Thailand Gasoline Import

Gasoline



Export of Gasoline & High Sulfur Fuel Oil (HSFO)

2. Consumers: Energy Affordability



16.3%
 **6 Million Members**

Inthanin **1,021**

Oil Retail Market Share

No. of Members

Coffee Outlets

13.7%

3.5 Million Members

79

Opportunities to Expand Retail Businesses:



Network Planning



EV Charger



Fleet Card



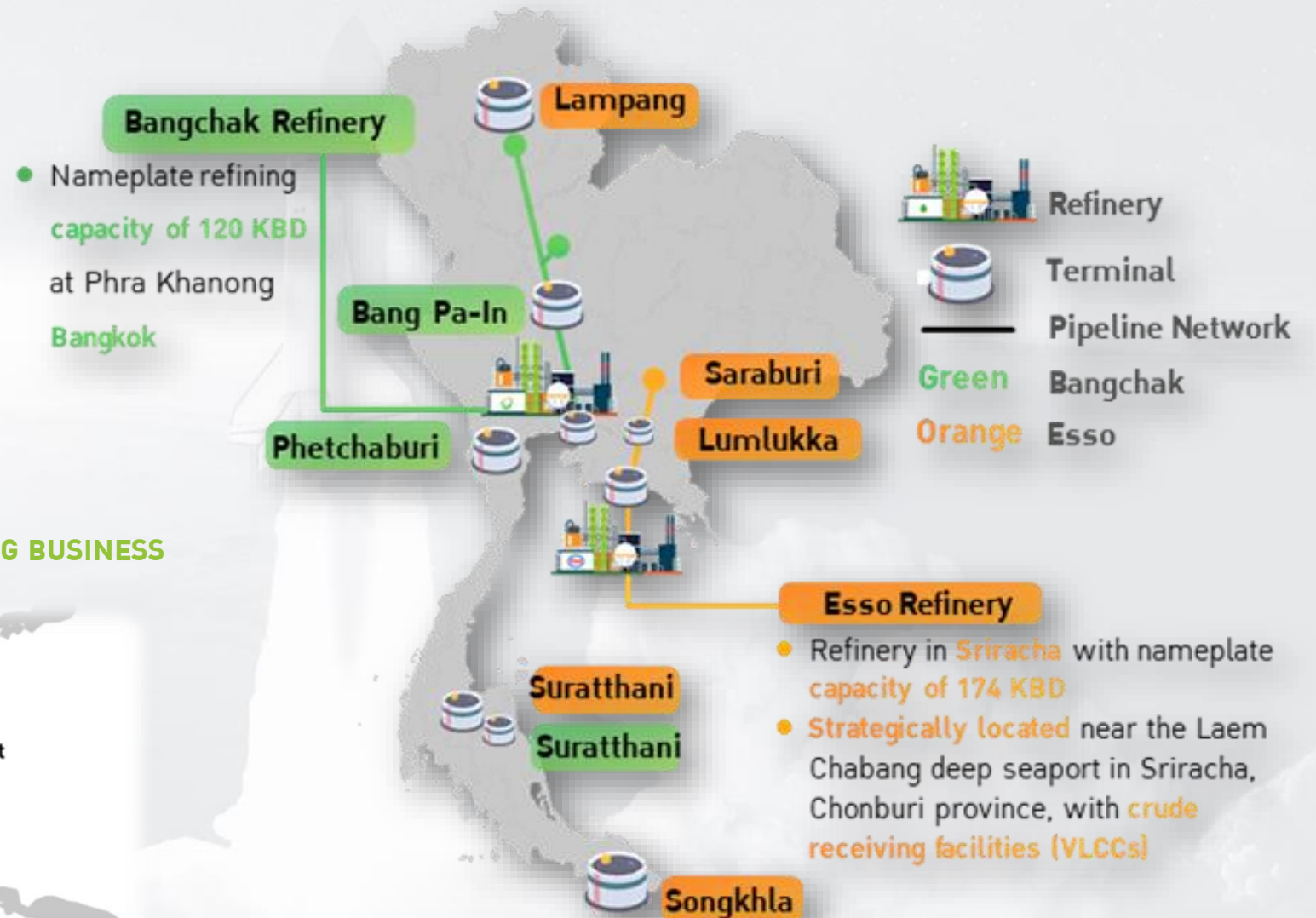
Non-Oil Expansion



Maintenance Service

Note: Data as of March 2023

3. Supply Chain: Total Logistics Solutions



bcpt OIL TRADING & CRUDE SOURCING BUSINESS



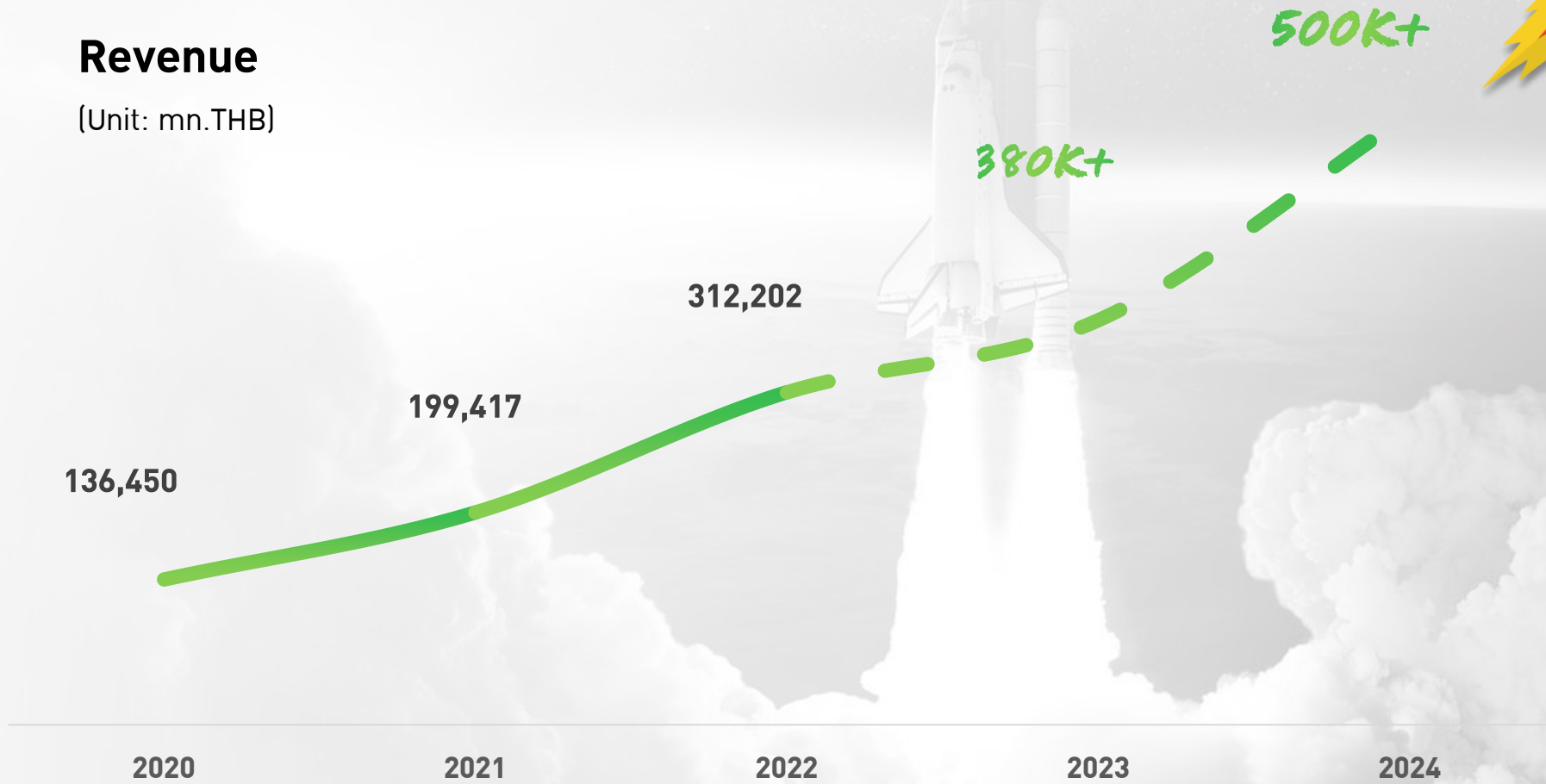
4. Shareholders: Worthwhile Returns

Stable path for the Future...



Revenue

(Unit: mn.THB)



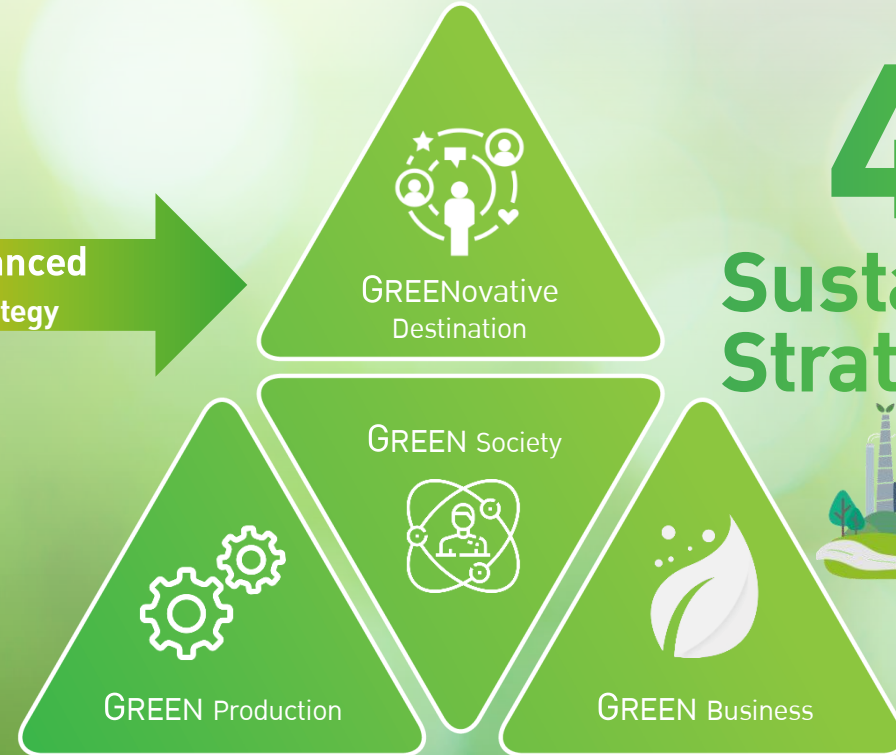
Business and Sustainability Strategies



4S Business Strategies



4G Sustainability Strategies



Pathway to NET ZERO in 2050



Target Carbon Neutrality by
2030

Target Net Zero by
2050

B Breakthrough Performance **3**
Efficiency and Process Improvement = 30%

C Conserving Nature and Society **1**
Green and Blue Carbon = 10%

P Proactive Business Growth and Transition **6**
Green Portfolio and Future Technology = 60%

NET Net Zero Ecosystem
Ecosystem Creation

Net Zero Ecosystem in Actions



460 Members Data as of 24 Aug, 2023
(94 Organizations, 366 People)

TVER: **367,407** tCO₂eq.

RECs: **1,550,145** MWh

Data as of 30 June, 2023



Reduce GHG emissions from
conventional road transport

Transportation Capacity **6,000** ML/Y

[2,600 ML/Y as of Jan-Jul 2023]



~ **30,000** tCO₂eq./Y

[~ 13,100 tCO₂eq./Y as of Jan-Jul 2023]



FIRST

e-motorbike rental platform



1,600

tCO₂eq.

[Acc. 33 million km]

Current Users: 700



Data based on Jul, 2021- 15 Aug 2023

Thailand's **FIRST** SAF Producer



Flying Sustainably with BSGF



นกดไม่ทิ้ง
น้ำมันปรุงอาหารใช้แล้ว
X ไม่ทิ้ง ไม่ทอดซ้ำ X

bsgf

- 1 Production Capacity 1 ML/D
- 2 Construction 2023 - 2024
- 3 Commissioning End of 2024
- 4 Total Investment 10,000 MTHB

CO₂ emission reduction
~80,000 tons CO₂eq/yr

Driving more inclusive partnership *for sustainable world*

ทอดไม่ทิ้ง
น้ำมันปรุงอาหารใช้แล้ว
ไม่ทิ้ง ไม่ทอดซ้ำ
นำมาจาก
ที่ปั้มน้ำมันบางจาก
ที่ร่วมโครงการ
เพื่อผลิตเป็น SAF
เชื้อเพลิงอากาศยานยั่งยืน
นวัตกรรมสีเขียว ดีต่อโลก ดีต่อคุณ
SAF = Sustainable Aviation Fuel (เชื้อเพลิงอากาศยานยั่งยืน)

"Fry and Fly"



Expand to **200** Used Cooking Oil networking in 2023



44 stations



27 companies



42 restaurants



+100
Factories
(on going)



1
Bangchak
Employee group



WRRND

โครงการคาร์บอนเครดิตจากพืชเกษตรยั่งยืน

"Plant D"

Building the carbon credit from perennial plants with CO-OP networking
Area **100,000** rai. (2030 Target) /
est. accum. T-VER credits from project
> 800,000 tCO₂eq. (in 2030-2037)
(for BCP offsetting & Business Opportunity)



700 Users

Save Living Cost **34** MB/y.

* As of Aug 2023



"Thai rice NAMA" (ข้าวลดโลกร้อน)

Supporting the low-emission rice production project to CO-OP networking
124 members in Suphan Buri
(Rice **40,000** Kg.
Est. GHG Reduction **72** tCO₂eq.)

Contributing to community and social development



Society



Baimaipunsuk Foundation & Aomsuk (SE)



Read and Write Project >10,000 students

Thai rice NAMA

Community



Community Engagement **89.2%**



Stingless bee growing

Phuet Phan Pan Suk



ECO School

Firefly conservation

Supplier



Supplier Satisfaction **91%**



BCP

Supplier Code of Conduct

Employee



Employee Engagement **75%**



Bangchak 100X

BCP MANDATORY GRADUATION PARTY 2022

STOP! DISCRIMINATION

Employee Development





THANK YOU



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

 Bangchak

 @Bangchak.WOW

Appendix

Businesses

Bangchak's Business Portfolio

Refinery and Oil Trading Business

Complex refinery with capacity of **294 KBD**
BCP Trading, biggest independent oil trader
in Singapore



Marketing Business

“Greenovative Experience”
through **2,193** service stations,
with non-oil businesses through
Inthanin Coffee, Furio lubricants,
EV charging stations, etc.



Natural Resources

**OK
EA** 45.46%
shares



New Frontier Business



Norway-based company engaged in oil & gas
exploration and production
Capacity of **22 – 25 kboepd** and **32-42 kboepd**
After Statfjord full operation.

Power Business

bcpg 57.19%
shares

Asia Pacific's leading power generation company
& service provider of smart energy system

Total Power capacity of **2,025 MW** ppa
(Renewable Energy and Natural Gas Power Plants)



Bio-based Products

bbgi 44.99%
shares

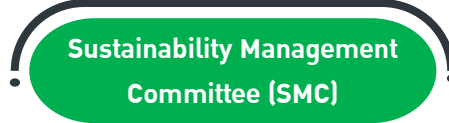
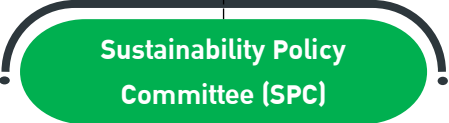
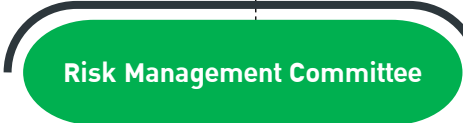
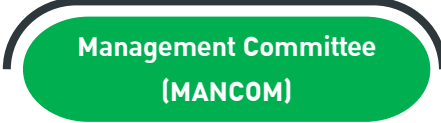
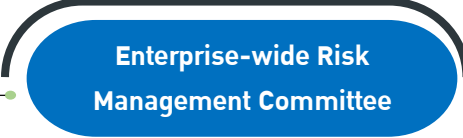
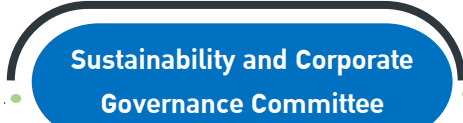
**No.1 fully integrated biofuel
producer** & synthetic biology
pioneer in Thailand



Sustainability Structure

At the policy level, the SPC sets the direction, policy and strategies associated with climate change and climate-related risks & opportunities for sustainable business development for Bangchak Corporation in response to SDGs, guidelines of corporate sustainability assessment as well as needs and expectations of the stakeholders

At board level, climate related risks and opportunities are **overseen** by the Board of Director and Enterprise wide Risk Management Committee. Sustainability and Corporate Governance Committee (SCGC) will monitor and review guidelines for Sustainable Development.



At the management level, the SMC conducts climate change policy and strategy, climate-related risks and opportunities assessment, and GHG emission reductions in order to pursue the target of Carbon Neutrality by 2030 and Net Zero GHG emission by 2050


- Board level
- Management Level
- Functional Level
- Division Level

Integrate Sustainable Development Goals (UN SDGs)

SUSTAINABLE DEVELOPMENT GOALS

13 CLIMATE ACTION

Carbon Neutrality: 2030
Net Zero GHG Emissions: 2050



6 CLEAN WATER AND SANITATION



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



15 LIFE ON LAND



8 DECENT WORK AND ECONOMIC GROWTH



11 SUSTAINABLE CITIES AND COMMUNITIES



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Integrate sustainable development goals (UN SDGs) with business operations by emphasizing the operations in response to the **8 main goals** that are relevant with business operations and business competence. While striking a good balance among **Environment, Society, and Corporate Governance (ESG)**

contributive to Society



Environmental friendly

Governance

Bangchak's Sustainability Policy

1. Corporate governance
2. Fair business operating practices
3. Responsible production & service together with the promotion of sustainable society
4. Comprehensive assessments of sustainability for new businesses
5. Investment in businesses that generate returns, focusing on sustainable innovation and clean energy businesses
6. Management of energy, climate, water and waste
7. Human rights and employment for developing sustainable economy
8. Participation in community and social development through the development of education and the promotion of social innovation



Sustainability Policy



Human Rights Policy



Biodiversity Policy

Sustainability frameworks & Benchmarking

