



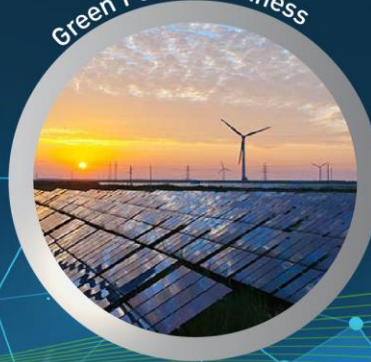
BANGCHAK CORPORATION PUBLIC COMPANY LIMITED

COMPANY PROFILE 2022

Refinery and Trading Business



Green Power Business



Natural Resources Business



Marketing Business



Bio-Based Products Business



WHAT GUIDE US



CORE VALUE



MISSION

Bangchak is committed to bringing disruptive and inclusive Greenovation to delight our customers, being a trusted partner and value creator for all stakeholders, and promoting sustainable development of society. We emphasize inclusive and sustainable business, pursue domestic and overseas expansion, embrace good corporate governance principles, and nurture a high-performance organization, learning culture and happy workplace.



BUSINESS STRATEGIES

To achieve its short-term and long-term goals, Bangchak relies on the 3Ss Strategy.



3Ss
Strategy



S1 Security

Strengthening national energy security by emphasizing upstream energy

Bangchak carries out this strategy jointly through its Refinery, Marketing, Natural Resource, and Bio-based Product Businesses by supplying, producing, and distributing refined products command a growth outlook, today we still see these businesses of Bangchak as a necessity for growing national energy demand.

S2 Stability

Diversifying and expanding business portfolio into steady- income businesses

Bangchak manages its portfolio for growth with an investment focus on businesses with steady revenue streams as well as steady returns and low external risks, including green power plants (BCPG). To diversify risks, the company engages in risk management throughout its production chain covering assorted businesses in order to sustain volatility.

S3 Sustainability

Developing new and related businesses to existing core businesses

Bangchak develops related businesses that support sustainability to accommodate future technology and change, including the lithium battery business that accommodates EV car growth. Bangchak leverages innovations benefiting the environment and society via BiiC, which focuses on the pursuit of startup investment and R&D activities to relentlessly grow green and bio-based product businesses worldwide.

38 YEARS TOWARDS SUSTAINABLE GROWTH

1984

Established **"Bangchak"**
on 8th November



1994

Listed **"BCP"** in SET

2004

Launched Biofuel Products
(Biodiesel & Gasohol)



2009

Established Biodiesel
Business



2011

Commercial operation of the
first solar power plant



2016

Established Oil
Trading Business **"BCPT"**

Established Bangchak Retail
"BCR"

Acquired Solar Power Plants in
Japan

Listed **"BCPG"** in SET

2018

Invested in **OKEA AS** in
Norway to expand E&P
business

2017

BCPG expanded to wind
power plant business in
the Philippines



2019

Listed **"OKEA ASA"** in OSLO
Stock Exchange



BCPG acquired the first
hydropower plant in Laos

2020

Launched the **"Winnonie"**
startup, electric motorcycle
rental business with the first
battery swapping model in
Thailand



BBGI partnership with Manus
Bio Inc., a Synbio technology
leader

2022

OKEA ASA acquired a material portfolio
of assets



Acquired right over the pipeline
network capacity and terminal
systems through **"BFPL"**

Listed **"BBGI"** in SET



2021

BCPG expanded to solar farm
business in Taiwan



Listing activity



New business

MANAGEMENT TEAM



Mr. Chaiwat Kovavisarach

President and Group Chief Executive Officer



Mr. Somchai Tejavanija

Chief Marketing Officer & Senior Executive Vice
President, Marketing Business Group



Mr. Surachai Kositsareewong

Senior Executive Vice President, Accounting
and Finance Group



Mr. Chokchai Atsawarangsalit

Senior Executive Vice President,
Corporate Management and
Organization Development



Mr. Pativat Tivasasit

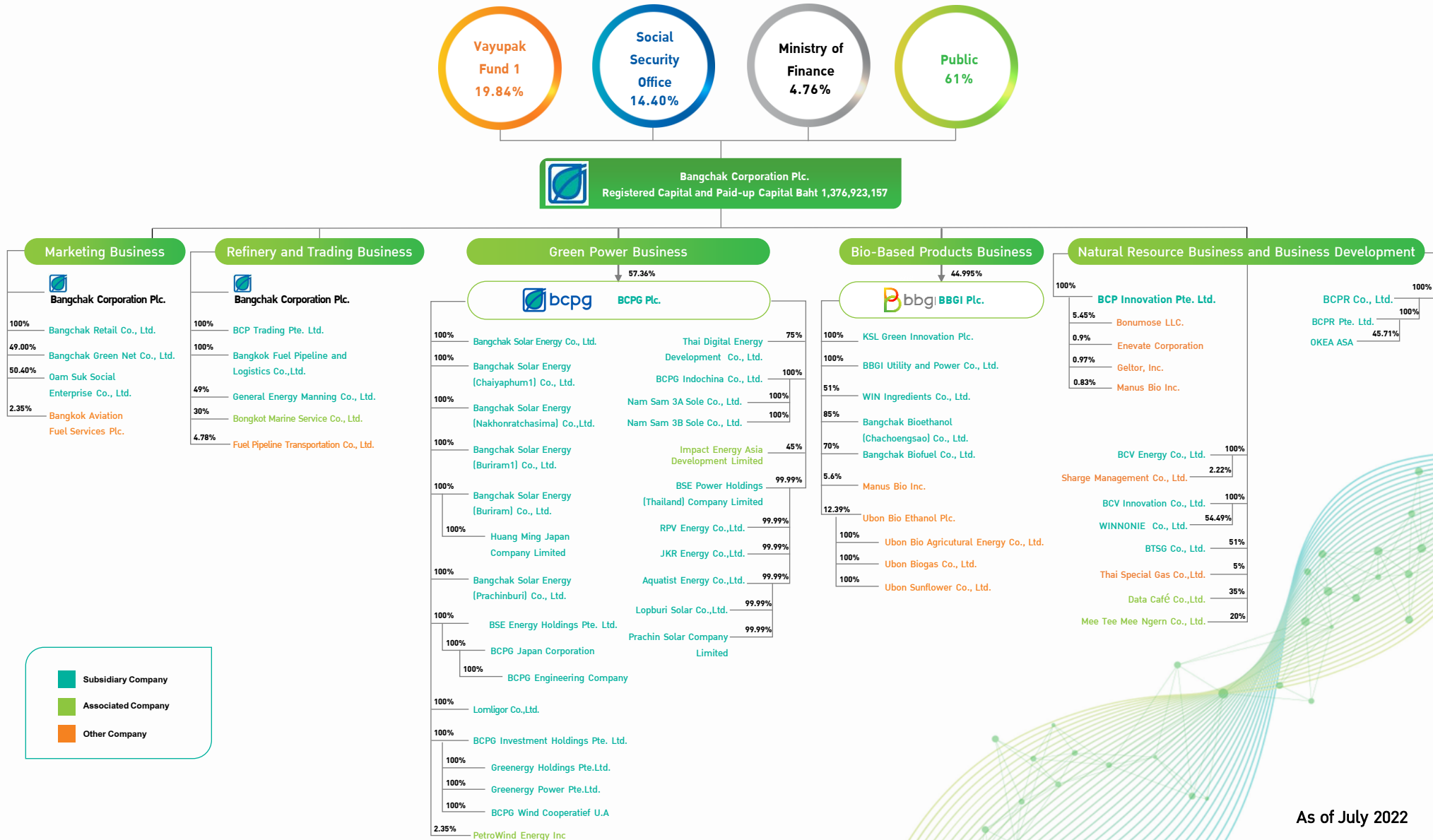
Chief Operation Officer & Senior Executive
Vice President, Refinery Business Unit



Mr. Kittiphong Limsuwannarot

Senior Executive Vice President, appointed to
BBGI Public Company Limited

SHAREHOLDING STRUCTURE



■ Subsidiary Company
■ Associated Company
■ Other Company

BANGCHAK'S BUSINESS PORTFOLIO

Bangchak Corporation Public Company Limited, a Thai energy company engaging in business alongside social and environmental stewardship, aims to enhance national energy security with innovation-oriented businesses. This goal is to strengthen business continuity and develop sustainability for organization and Thai society. Currently, the Company covers 5 main businesses from upstream to downstream.



Refinery and Trading Business Group

Complex refinery with capacity of 120 KBD. Yields are mostly premium products in the gasoline and diesel groups and are of the government-required Euro 4 standard.

Bangchak refinery focuses on improving process energy stability and enhancing the efficiency of refining processes for optimal benefits and integration with own distribution channels.



Marketing Business Group

Distribution channels through industrial and retail channel of more than 1,200 service stations, completed with supplementary non-oil businesses and various services and products, including convenience stores, coffee shops, car care service, and lubricants, to provide customer convenience.



Green Power Business Group

Bangchak invests in the green power business through BCPG PLC. **BCPG** runs the power generation businesses in Thailand and overseas from various sources including solar, wind and hydropower.



Bio-Based Products Business Group

Bangchak engages in bio-based product business, including ethanol and biodiesel through BBGI PLC., **BBGI** is one of Thailand's largest biofuel producer and distributor, while aims to become a leader in premium bio-based products and biotechnology business.



Natural Resources and New Business Group

Bangchak invests in upstream petroleum exploration and production (E&P) business through **OKEA ASA**, and involves in the lithium business and innovation businesses outside Thailand.





REFINERY AND TRADING BUSINESS GROUP

Complex refinery with capacity of 120 KBD. Yields are mostly premium products in the gasoline and diesel groups and are of the government-required Euro 4 standard. Bangchak refinery focuses on improving process energy stability and enhancing the efficiency of refining processes for optimal benefits and integration with own distribution channels.



Complex refinery
with capacity of

120

KBD

BANGCHAK'S MARKETING CHARACTERISTIC



Modern complex refinery with a nameplate capacity of 120,000 Barrel per day



Enhance the efficiency of refining processes for optimal benefits and stability in tandem with the reduction of carbon dioxide




Owned distribution channels for supply chain optimization

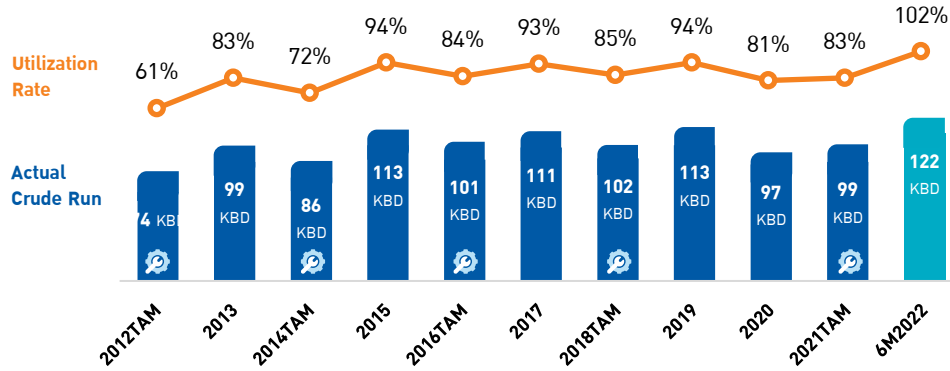


Constantly develop the oil trading business stressing growth in trading market to new business partners and new products



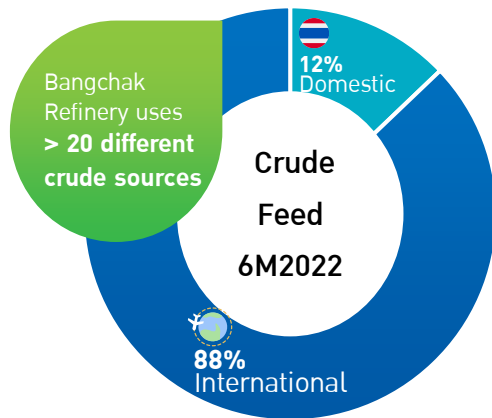
PRODUCTION PROFILE

 TAM = Turnaround Maintenance Period

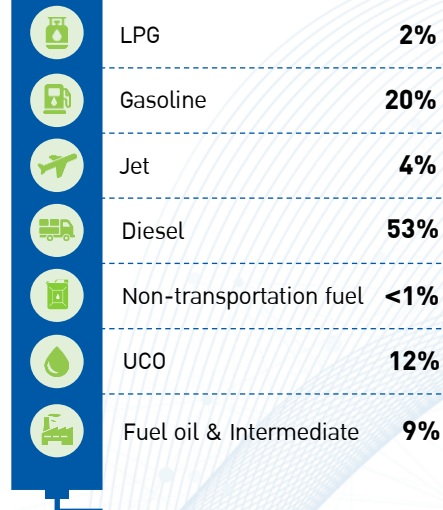


CRUDE FEED

to produce high quality and environmental friendly products



PRODUCTION YIELD 6M2022

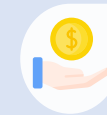


TURNAROUND MAINTENANCE CYCLE EXTENSION

From every other year, the schedule has become



INTEGRATED LOGISTICS NETWORK



Maximize asset utilization



Acquired rights over the pipeline network capacity and terminal systems



Stabilize oil distribution system



Transportation costs



Loss during shipping



Revenue

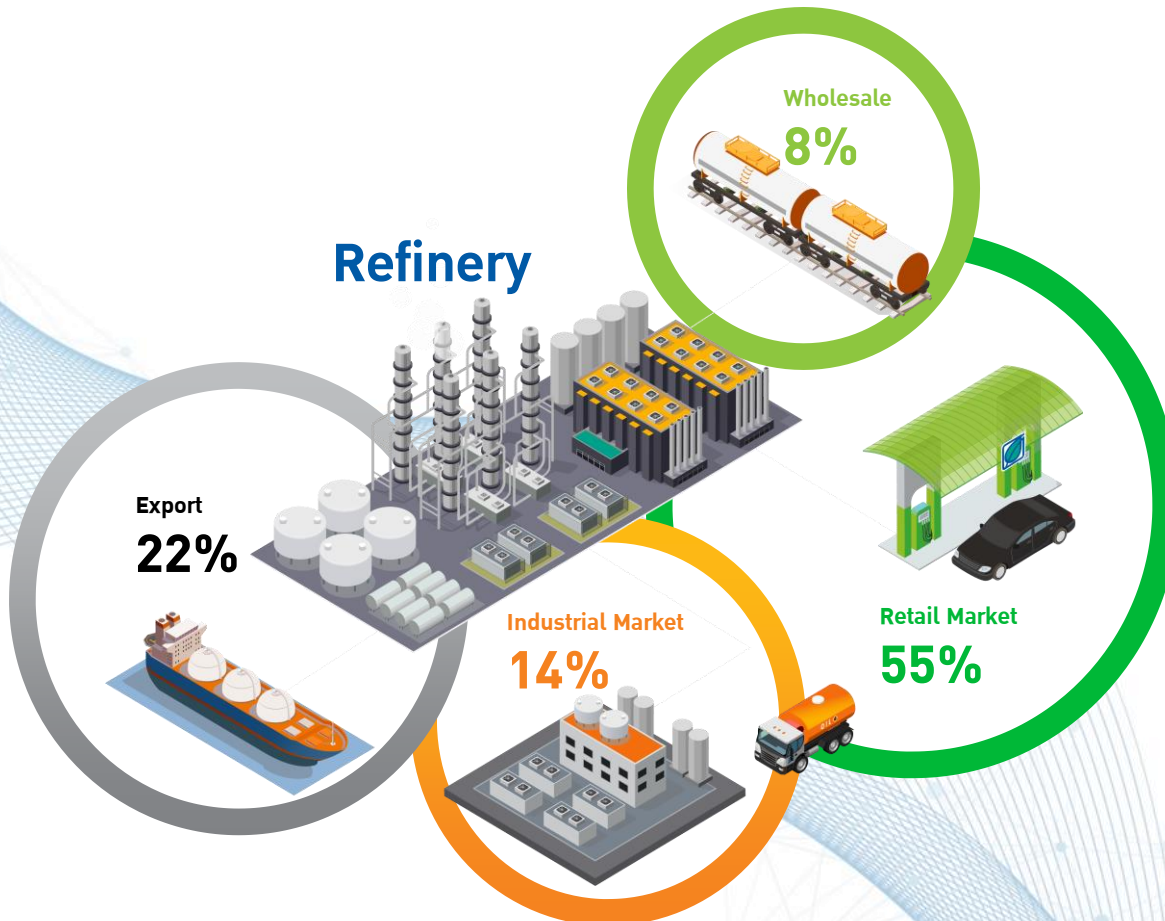


Carbon emissions from vehicular transport

DISTRIBUTION CHANNELS

TOTAL SALES VOLUME

Unit: % Portion of total sales volume in 6M/2022



OIL TRADING BUSINESS

Operated by BCP Trading Pte. Ltd., covering Asia-Pacific region, Australia and United States of America and continuously expanding to cover more transactions including



More Product Varieties

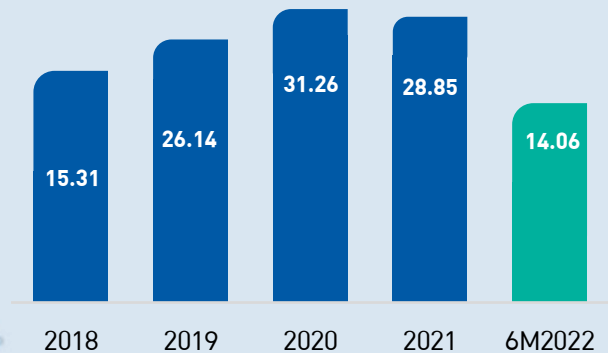


Derivatives Trading



BCPT HQ in Singapore

TRADING VOLUME (MBSL)





MARKETING BUSINESS GROUP

Main distribution channel of oil and lubricant products through more than 1,300 service stations nationwide, and directly sell to industrial sectors, as well as providing supplementary non-oil businesses

BANGCHAK'S MARKETING CHARACTERISTIC



Aiming to maintain its service standards to guarantee maximum satisfaction from consumers. Done by turning Bangchak service stations into the "Greenovative Destination"



Focusing on distribution and improvement of high-performance environmentally friendly green renewable fuels, embracing the gasohol and diesel products



Emphasizing great customer experience with non-oil business and various services including Inthanin coffee shops, partner stores, and centers for lubricant replacement and car wash



Marketing products to airlines, industrial, transport, construction and agricultural sectors



1,301
Service Stations



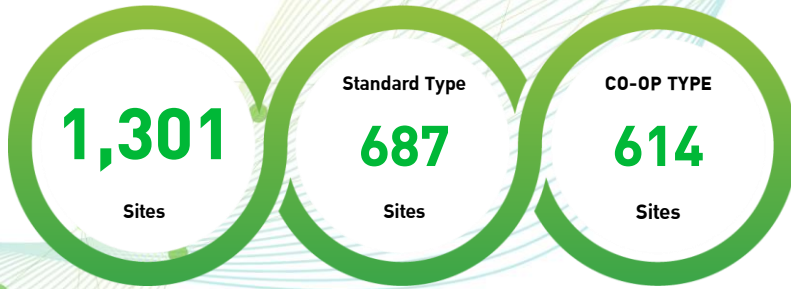
Inthanin
886
Stations



As of June 2022

SERVICE STATIONS

as of June 2022



CURRENT NETWORK OPTIMIZATION

To enhance consumer experiences

- Employ technology to advance Loyalty Program
- Develop high-performance environmentally friendly products
- Upgrade standard of customer services

NETWORK EXPANSION

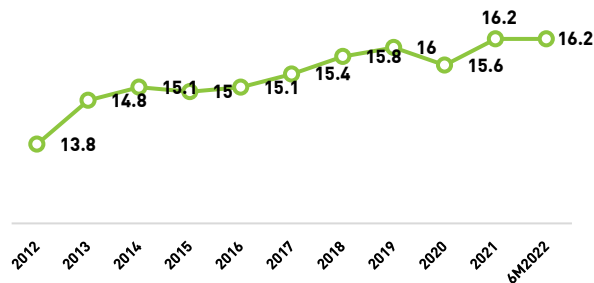
Focus on high potential areas, with service stations of distinguished character, harmoniously customized to customer needs

NON-OIL BUSINESS EXPANSION

To attract more customers and support modern consumer lifestyles

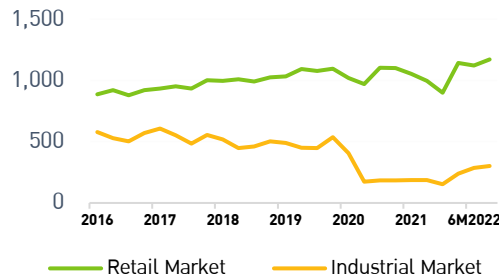
HISTORICAL MARKET SHARE

(Unit: %)



TOTAL SALES VOLUME

Sales volume has recovered to pre-COVID level
(Unit: ML/Quarter)



NON-OIL BUSINESS

as of June 2022

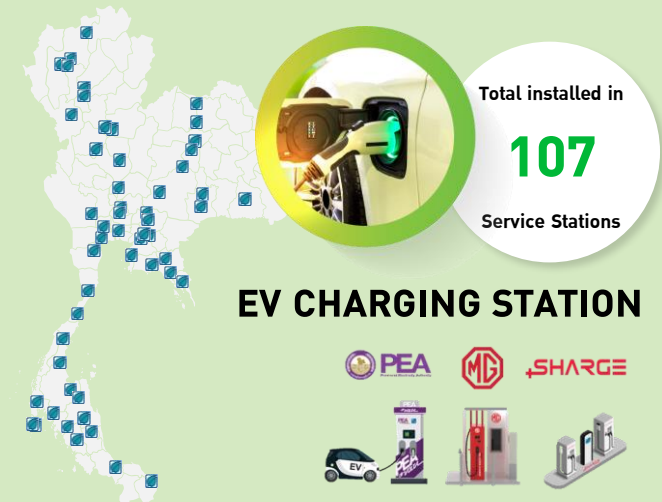
Focus on expanding and developing businesses such as coffee shop, convenient stores, and car care services to enhance customer experience and induce more customers to Bangchak service stations. It became a crucial part to the expansion plan of marketing business group.



Inthanin



With more than 800 Inthanin coffee shops nationwide, both in service station and stand alone, serve 100% Arabica coffee beans roasted with specific process while giving back to the community and environment nationwide





GREEN POWER BUSINESS GROUP

Bangchak invests in the green power business through BCPG PLC. with 57.46% shareholding portion. BCPG, established in 2015 and listed in 2016, is among Asia-Pacific's leading companies in renewable energy with solar power, hydropower and wind power businesses in Thailand, Japan, Taiwan, Laos, Vietnam and the Philippines.

By 2025, BCPG will be a prominent renewable energy player in Asia Pacific with sustainable growth.



**World's
Greenery Icon**

**Evolving the world
through the green ways**

Empowering Green Lifestyle

Green Expanded

Continue to expand its green power production in the Asia-Pacific region by over **3,200 GWh per year.**

Build confidence and strength in financial position to support both short-term and long-term investment plans.

Continue investments in large energy storage system businesses to manage the use of electricity generated by green energy and to support future trends

Green Innovations

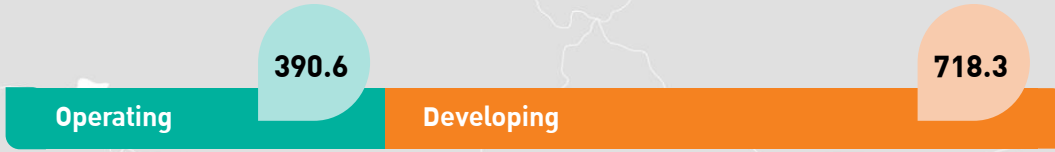
Commit to developing green energy innovations to respond to sustainable energy consumption and environmentally-friendly lifestyles

Green Target

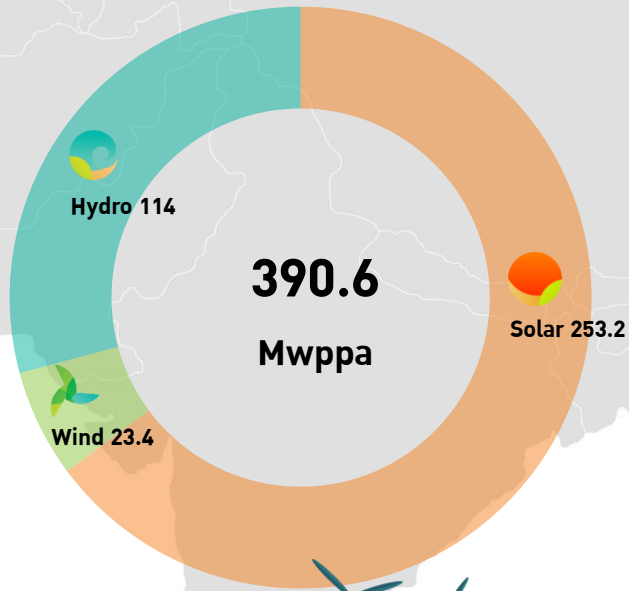
Set a **net-zero carbon goal by 2030** to extend a balanced world to future generations

ELECTRICITY CAPACITY

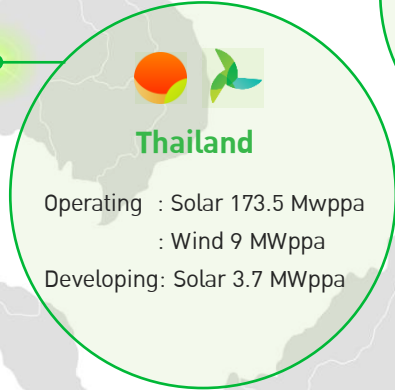
as of June 2022



1,108.9 MW_{ppa}



Unit is contracted capacity or equity MWppa





BIO-BASED PRODUCTS BUSINESS GROUP

Bangchak engages in bio-based product business, including ethanol and biodiesel through BBGI PLC., with 44.99% shareholding portion **BBGI is No. 1 biofuel producer and distributor in Thailand**, and aims to become a leader in premium bio-based products and biotechnology business.



BBGI has become a listed company in the Stock Exchange of Thailand since

17 March 2022.

Biodiesel Business

Biodiesel is alternative fuel to replace diesel fuels produced which from natural raw materials and it is regarded as environmentally friendly clean energy.



Bioethanol Business

Ethanol or ethyl alcohol is one of alcohols originated from the fermentation of molasses or flour plants. It is clear, colorless liquid which is inflammable and dissolvable in water and other organic solutions. So, it is variously useful by grades of the products.



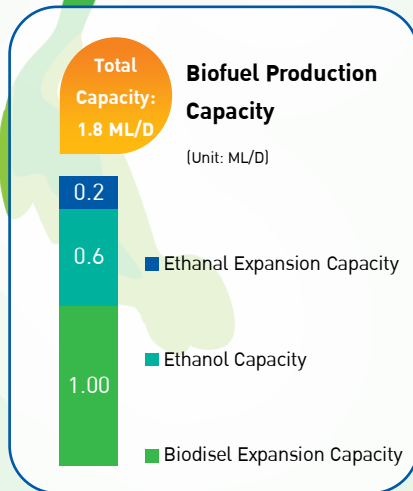
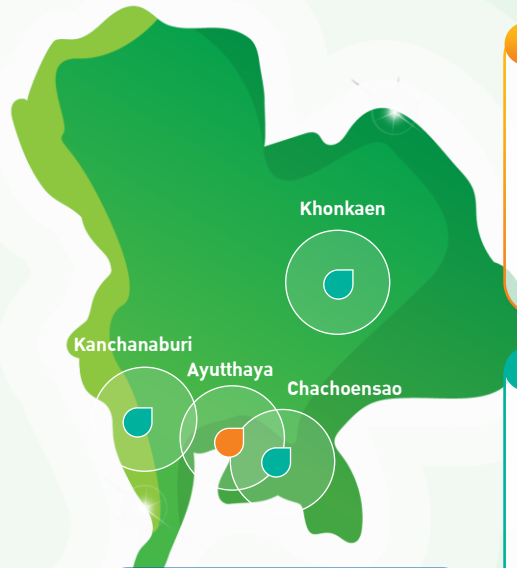
High Value Bio-Based Products

The group company expects to continue investing in this business sector with the focal area that are acknowledged by government, for example, the Special Economic Zone for any benefits it may cause. The group company is waiting for more research and development of the Biofuel by-product to generate profits



Biofuel Business

No.1 Fully Integrated Biofuel Producer in Thailand



Biodiesel Business

Ayutthaya - CPO
1,000,000 L/D

Operates under BBF **BBGI holds 70% BBGI**

Biodiesel Products

Biodiesel

Refined Glycerin

Ethanol Business

Kanchanaburi - Molasses
300,000 L/D

Operates under KGI-BP **BBGI holds 100% BBGI**

Khonkaen - Molasses
150,000 L/D
+200,000 L/D

(Currently under construction)

Operates under KGI-NP **BBGI holds 100%**

Chachoengsao - Cassava
150,000 L/D

Operates under BBE **BBGI holds 85% BBGI**

Ethanol Products

Fuel Grade

Pharma Grade

High Value Bio-Based Products

Leading and Pioneering in Thailand

Synthetic Biology



Advanced Biotech

Invest & Partner with World Class Biotech
Synthetic Biology ("Synbio")

- Investing in Manus
- Partnering with Manus

Exclusive Manufacturing License and Distributor in
12 Countries
(Southeast Asia, Japan, and Korea)

Trading

Distribute via B2B and B2C platforms

Distribution Platform

- Business-to-Customer (B2C)**
Food & Health Supplement

Online Channel

Offline Channel

- Business-to-Business (B2B)**



NATURAL RESOURCES AND NEW BUSINESS GROUP

Bangchak invests in upstream petroleum exploration and production (E&P) business through OKEA ASA, and involves in the lithium business and innovation businesses over the world.





OKEA ASA

Listed in Oslo Stock Exchange

- A Norway-based oil company engaged in the oil and gas exploration and production industry
- Listed in Oslo Stock Exchange since **June 2019**



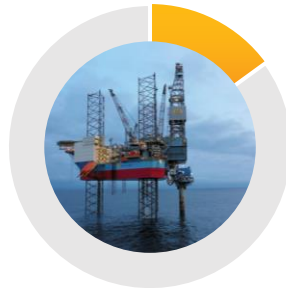
Current Asset in Production



44.56%
Draugen
Operator: OKEA



12%
Gjoa



15%
Yme

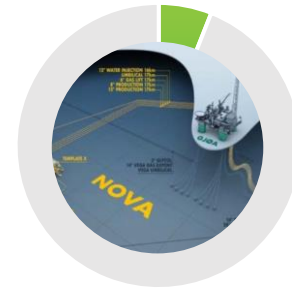


2.77% - *9.24%
Ivar Aasen

New Acquisitions



35.2%
Brage
Operator: OKEA



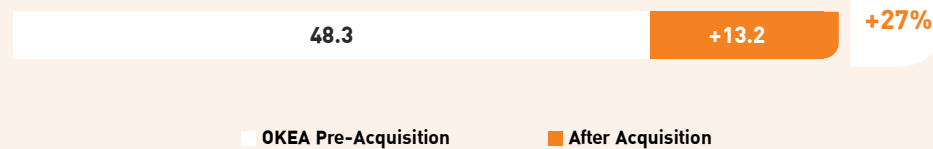
6%
Nova

*Transaction is expected to complete in Q4/22



STRENGTHENING A MORE ROBUST AND DIVERSE PRODUCTION PORTFOLIO IN NORTH SEA

2P Reserves (mmbœ)



Production

2022 exit rate: 25 Kboepd

2023: 25-27 Kboepd

LithiumAmericas

Cauchari-Olaroz project in Argentina: Construction underway with the first production targeted within 2022

BCP holds offtake rights of lithium carbonate up to

6,000 tpa





BANGCHAK INITIATIVE AND INNOVATION CENTER (Biic)

Biic explores opportunities for collaboration with various partners to develop business innovation that will generate new income and profit. Biic is divided into groups, as follows



Corporate Venture Capital (CVC)

Invest in global innovative and disruptive startups to create new strategic partnerships and business opportunities for Bangchak Group. Its investments has extended from green energy and bio-based businesses to hydrogen economy and carbon capture & utilization.



Research and Development (R&D)

Collaborate and fund research institutes and universities for joint research and development of innovative products in the field of green and bio-based technology, as well as intellectual property protection.



Ecosystem and Incubation (E&I)

Create an ecosystem to support innovation through collaboration and incubate the growth of internal and external startups to create new customer experiences, increase revenue and efficiency for Bangchak businesses.



Winnonie

New commercial startup from Biic

An electric motorcycle rental platform for professional purpose that help cut the conventional costs of motorcycle payments, fuel, and maintenance into a singular all-inclusive rental service.

successfully raised 80 MB

for a Series A early 2022



AWARDS & RECOGNITIONS IN 2021

Over 40 awards of pride

Leadership and Management Awards

- Thailand Corporate Excellence Awards 2021
- Asian Excellence Recognition Award 2021 Corporate Governance Asia - Asia's Best CEO, CFO, and Investor Relations company

Corporate Image and CSR Awards

- Superbrands 2021 (Bangchak & Inthanin)
- Asia's Influential Brands Top Brand
- UN Women 2021 Thailand WEPs Awards

Sustainability and Corporate Governance Awards

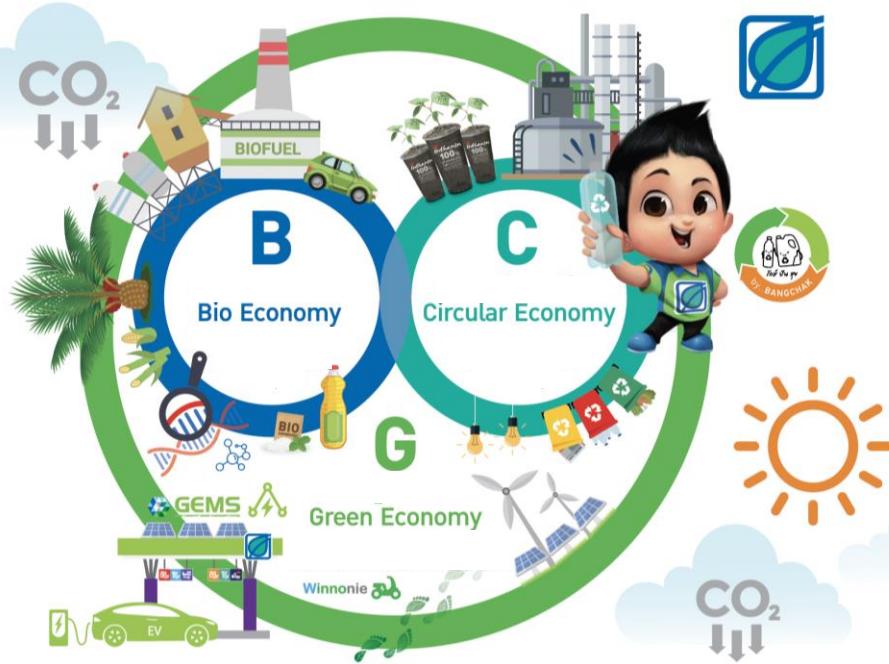
- Thailand Sustainability Investment (THIS) listed companies 2021
- Global Good Governance (3G)
- An outstanding Low Carbon Award
- Sustainability Disclosure
- Carbon Reduction Label and Trophy

Innovation Awards

- Global Brands Awards - Excellence in Sustainable Greenovation
- CFI.co Award 2021 (Capital Finance International) for Best Sustainable Innovation Strategy (Thailand)
- Most Innovative Knowledge Enterprise Award (Thailand MIKE Award 2021)



Bangchak has adopted the “**BCG Economy Model**” to create profits, values and sustainability for the Company and stakeholders.



Bio Economy

Focusing on the productive use of biological resource through the use of technology and innovation to transform agricultural products to high-valued biological products

Circular Economy

Emphasizing the worthwhile use of resources, raw materials, and products

Green Economy

focusing on overcoming environmental issues and mitigating their impacts sustainably

Sustainable Development Goals



Sustainability Award
Silver Class 2022

S&P Global

MSCI
ESG RATINGS



OUR PATH TO NET ZERO

Aims toward Sustainable Growth and **Low-carbon Society**



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, Future Technology and Carbon Offset = 60%

NET Net Zero Ecosystem

Ecosystem Creation



Target Carbon Neutrality by **2030**



Target Net Zero by **2050**



BCP NET
Strategy Plan

STOCK INFORMATION

BCP

Bangchak Corporation
Public Company Limited
 As of 30 Jun 2022

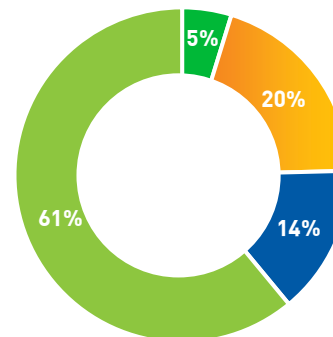
Resources/Energy & Utilities
SET100 / SETCLMV / SETTHSI
Establish Date 08/11/1984

Paid-up (MB.)	Listed Date	Par	Foreign Shareholder
1,376.92	02/08/1994	1.00 Baht	13.22%

Market Cap (MB.)	Price (฿/Share)	52 Week High/Low	NVDR Shareholder
43,028.85	31.25	32.75 / 22.60	12.92%

% OF SHAREHOLDER

As of 3 March 2022

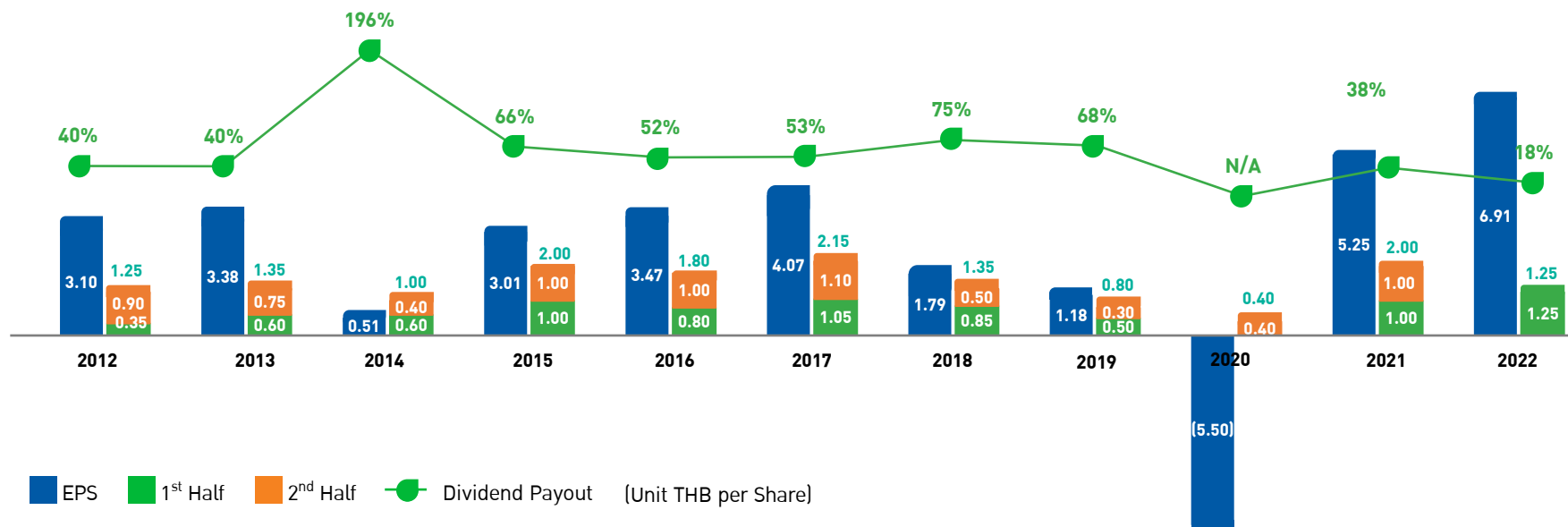


No. Listed shares

1,376,923,157 shares

- Ministry of Finance
- Vayupak Fund 1
- Social Security Office
- Public

DIVIDEND PAYMENT IN THE PAST 10 YEARS





BANGCHAK CORPORATION PUBLIC COMPANY LIMITED

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Corporation Website



IR Website

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