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Bangchak

Recent Significant Events



 Winnonie announced successfully raised 80 MB for a Series A

2022 Target: 2,200 users, 100 battery swapping stations to cover 100% of BKK area



BCPG COD Japan 25
 MW Komagane project



Redemption of BCP bonds of 3,000 MB















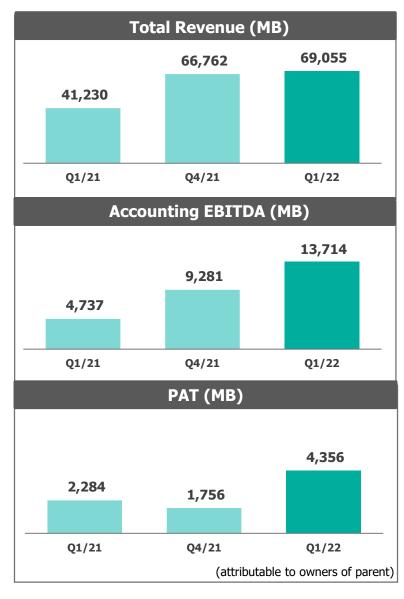
- Redemption of BCP bonds of 1,000 MB
 BCD 1 0 Paht/share dividend payment.
- BCP 1.0 Baht/share dividend payment on 2H2021 performance (2.0 Baht/share on 2021 performance)
- BCPG 0.17 Baht/share dividend payment on 2H2021 performance (0.33 Baht/share on 2021 performance)
- BCPG COD Japan 20 MW Yabuki project





Q1/2022 Consolidated Performance



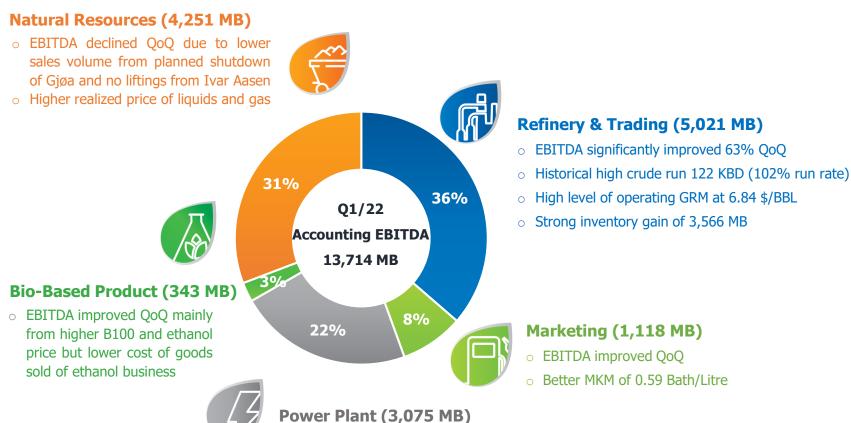


Bangchak's Group EBITDA surpassed 10 billion Baht milestone for the first quarter

o EBITDA improved QoQ mainly due to gain from divestment of

o Operating performance maintained QoQ despite a decrease in

Geothermal power plant of 2,031 MB

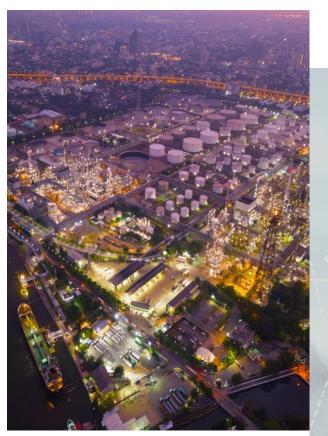


electricity output

Agenda







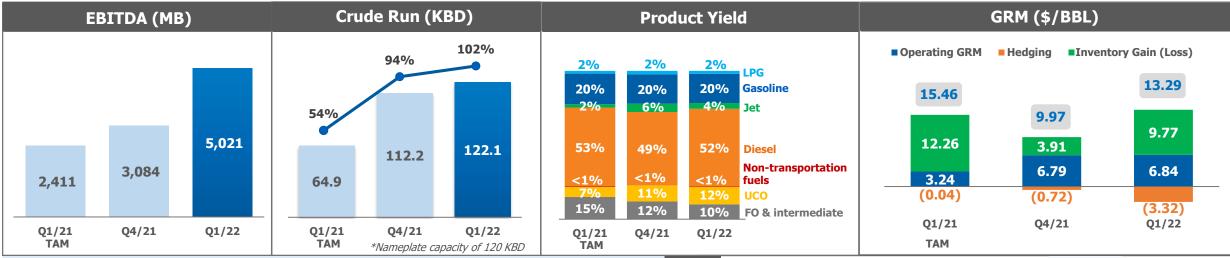




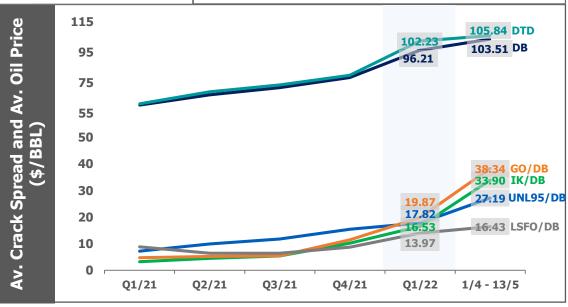


Refinery and Trading Business





- A historical high crude run at 122 KBD with the refinery utilization rate of 102%,
 benefited by oil demand recovery and high level of crack spread
- High level of operating GRM of 6.84 \$/BBL from better crack spread of all products but pressured by the spiking crude prices and premium
- Strong inventory gains of 3,566 MB (Net NRV) from rising crude oil prices due to strengthening oil demands amid global supply tightness resulted from banning Russian oil imports as part of sanctions against Russia for its invasion of Ukraine



Business Update: Refinery



Q1/2022 Q2/2022E 2022E

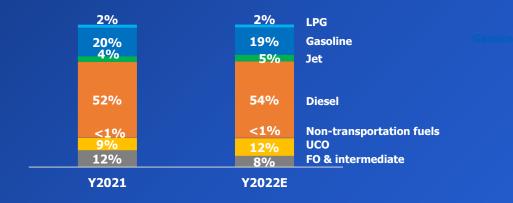
Crude run: KBD 122.1 120+ 120

DB: \$/BBL

96.2 100-105 95-100

Customized Products:

- Crude run at maximum capacity ~120 KBD
- Produce more high-value UCO Lube & Wax and VLSWR for new market







 BCP, BBGI and Thanachok Oil Light Company Ltd., Thailand's leader in integrated vegetable oil business for over 40 years, signed a MOU for the procurement of raw materials, products, plant construction, and retail of Sustainable Biofuels

"Aim to be the first Sustainable Aviation Fuel (SAF1) producer in Thailand"

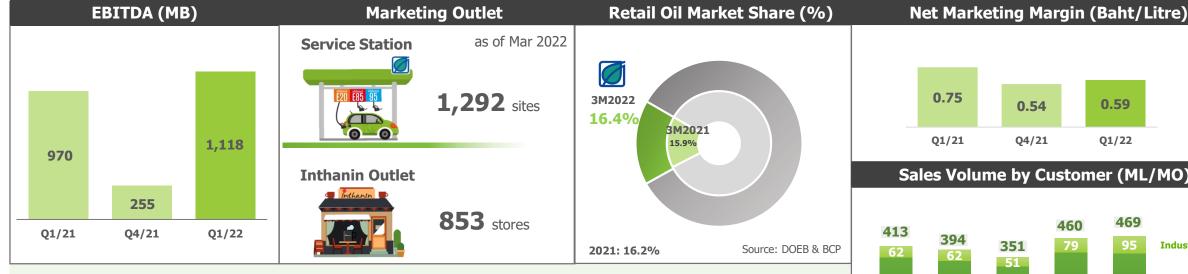
 BCP through BCPT signed exclusive offtake agreement for 5 ML/mo. of Used Cooking Oil Methyl Ester (UCOME) with Thanachok Oil Light to market domestically and internationally

¹SAF is a biofuel used for aircraft which has similar properties to conventional jet fuel, but up to 80% in carbon reductions through the entire product life cycle

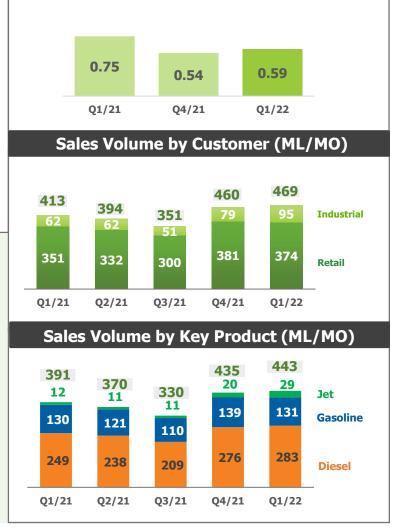


Marketing Business





- Total sales volume slightly improved QoQ industrial sales volume increased by 21% QoQ, mainly from the recovery of JET sales while retail sales volume declined compared to Q4, which was travel season
- Improved net marketing margin to 0.59 Baht/Litre or 9% QoQ from focusing on higher margin sales
 product and channel, including efficient cost management. Diesel marketing margin remained under pressure
 as BCP policy to be cooperative with the government diesel price measure



Business Update: Marketing





Service Station

1,292 Stations

as of Mar 2022

Standard Type

677 sites

COOP Type

615 sites

Network Expansion

2021

2022

1,277 Stations

+80 to 100 Stations (gross)

Focus on: Standard type and JV type

Unique Design Service Stations as of Mar 2022









Stations

2021 2022 44 +20 stations stations

A place to Refuel your car, and Refresh Yourself







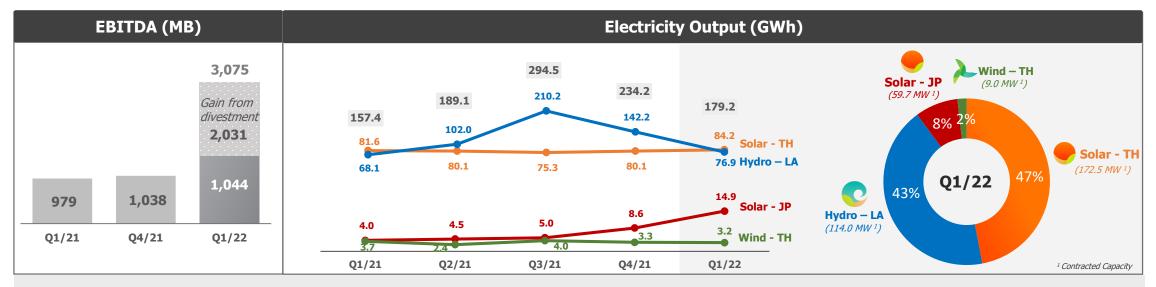
EV Charging Station





Power Plant Business



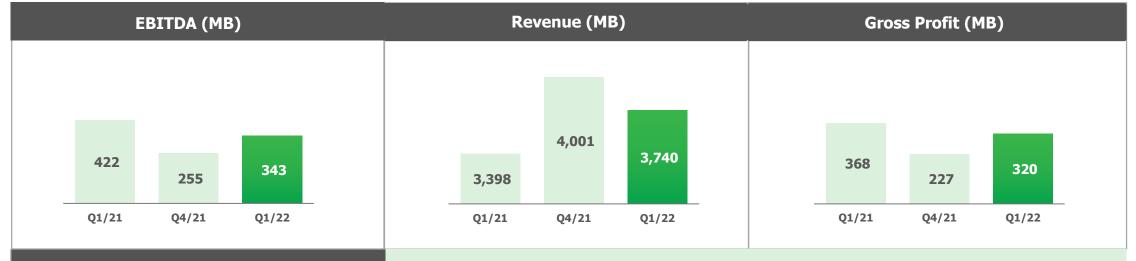


- EBITDA increased QoQ mainly due to gain from divestment of geothermal power plant of 2,031 MB
- o Operating performance was stable QoQ despite a 23% QoQ decrease in electricity output mainly attributed to seasonal factor
 - Laos hydropower -46% due to seasonal factor of normal hydro power plants
 - Japan solar power +73% attributed to the full quarter recognition of Chiba 1 project, COD in November 2021
 - Thai solar power +5% mainly resulted from the better irradiation and the additional COD of CMU solar rooftop project
- Share of profit of 142 MB:
 - Geothermal plant dropped QoQ to 108 MB as the project was divested in late quarter
 - Philippines wind power plant rose QoQ to 34 MB from 5 MB due to higher tariff rate realization and higher electricity output supported by high season factor



Bio-Based Product Business





Average Market Price (Baht/Litre)

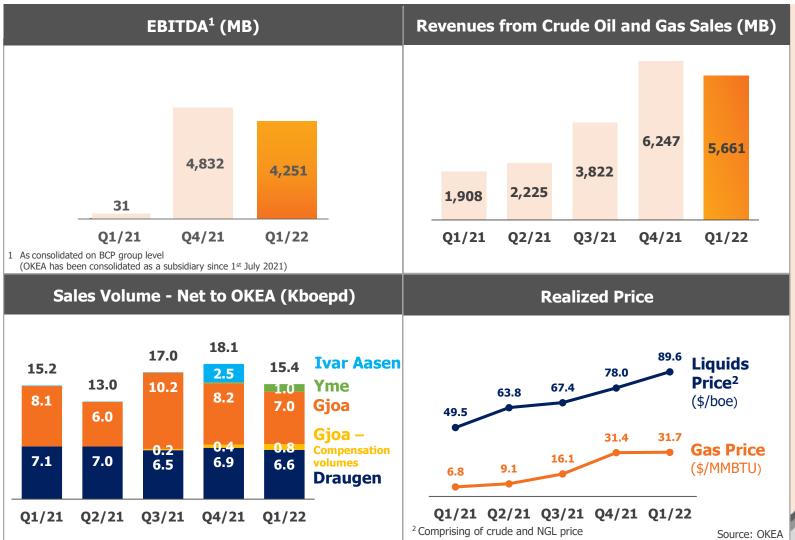


- EBITDA improved QoQ from better gross profit mainly from higher B100 and ethanol price but lower cost of goods sold of ethanol business
- Average B100 market price increased QoQ from 46.8 B/Litre to 54.2 B/Litre due to low level of domestic crude palm oil stock resulted from the delay in palm harvest and high exports
- Demand of B100 was pressured by government policy to cut B100 proportion in biodiesel from B7 to B5 effective from 5 Feb to 30 Jun 2022



Natural Resources Business





- Realized liquids price continued to increase and up 15% QoQ and gas price also slightly increased
- OKEA sales volumes declined by 15% QoQ
 due to
 - Planned shutdown of Gjøa field (18 Mar -8 Apr), mainly relating to tie-in work which Gjøa will receive compensation volumes for the deferred production
 - No liftings from Ivar Aasen field during the first quarter



Business Update: Others







- ✓ More contribution from Japan solar projects (65 MW)
 - Chiba 1 COD Nov 2021 (20 MW)
 - Komagane COD 29 Mar 2022 (25 MW)
 - Yabuki COD 15 Apr 2022 (20 MW)



- ✓ 2022 New investments (30,000 40,000 MB)
 - Taiwan solar 469 MW
 expected COD 25.4 MW in Q4/2022
 - M&A of operating projects



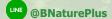


High Value Products (HVP):

- ✓ B nature+ ASTA-IMMU and ASTA-ViS is expanding B2C sale channels, and currently available in Inthanin stores and other leading grocery stores such as Gourmet Market and COSCEN
- √ Commercialize new products in Q3/2022
 - M-Green detoxify chemicals for vegetables and fruit products
 - X-10: prolong the shelf life of vegetables and fruit products
- Reb-M: natural sweetener to customers in ID,PH,TH

Our online channels:







- ✓ ~ 117.5 MSUD* recent acquisitions with fully internal cash:
 - 35.2% working interest (WI) in Brage field
 - Incremental of 6.5% WI in Ivar Aasen (9.2% total WI)
 - 6% WI in Nova field
 - * With additional contingent payment based on an upside sharing arrangement subject to oil price level and oil production performance during 2022-24, and the transaction is conditional upon Norwegion government approval.
- √ 2022 volume guiding net to OKEA
 - Original assets production 18.5-20 Kboepd

(2021: 15.5 Kboepd)

Gjoa compensation 0.9-1.2 Kboepd

(2021: 0.1 Kboepd)

- New assets production 5-6 Kboepd
- ✓ 2022 dividend: NOK/Share

Q3/22

0.9

02/22

Approved

Intention

(BCP indirectly holds 47,477,563 shares)





Appendix







Businesses

Bangchak's Business Portfolio







19.84% Vayupak Fund 1



14.40%Social Security Office



61.00% Public

As of 3 March 2022



Bangchak Corporation Public Company Limited. Register Capital and Paid – up Capital 1,376,923,157 Baht

Refinery and Oil Trading Business

 A modern complex refinery with a maximum capacity of 120,000 barrel per day

Marketing Business

- Bangchak's network for retail customers across the country, as well as industrial users and transport sectors
- Expanding to non-oil businesses (Inthanin Coffee)

Green Energy Business

 Green power business to engage in the generation and distribution of power from renewable and clean energy

Bio-based Product Business

 Thailand's first and largest fully integrated biofuel (ethanol and biodiesel) producer and distributor

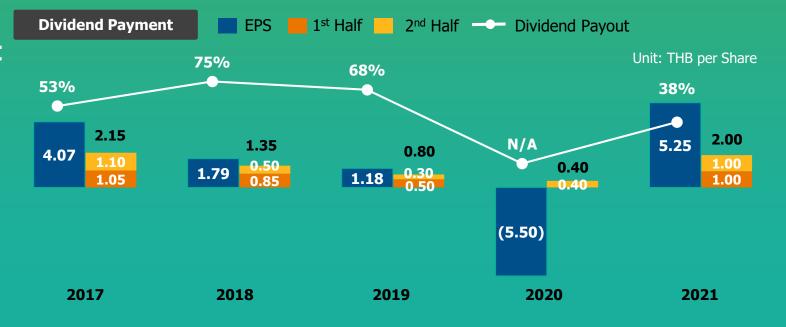
Natural Resources and OK Business Development = A Business

Upstream petroleum exploration and production (E&P) business

Listed in SET since August 1994

Dividend Policy: ≥ 30 percent

The Company has the policy to pay out dividend to the shareholders at the rate of not less than 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.



BCP and Sustainability





To achieve "Race to Zero"

Carbon Neutral Company by 2030 Net-Zero Greenhouse Gas Emissions by 2050







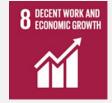








To Create Social Values









ESG Rating & SDGs Performance



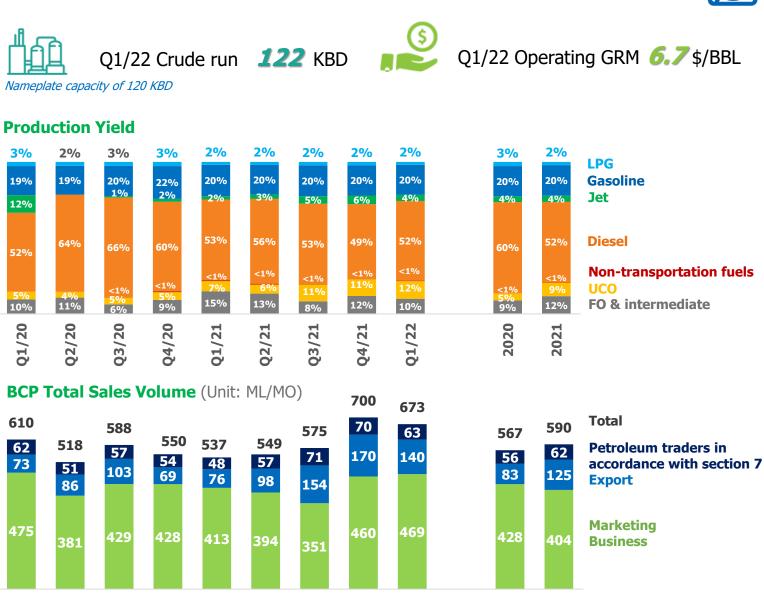




Refinery and Trading Business: BCP Refinery







Q3/21

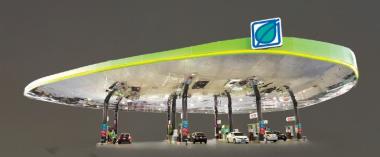
2020

202

Marketing Business: Service station and Inthanin



Service Stations (as of 31 Mar 2022)



1,292 Sites

Standard Type

677 Sites

Network Expansion

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

CO-OP Type

615 Sites

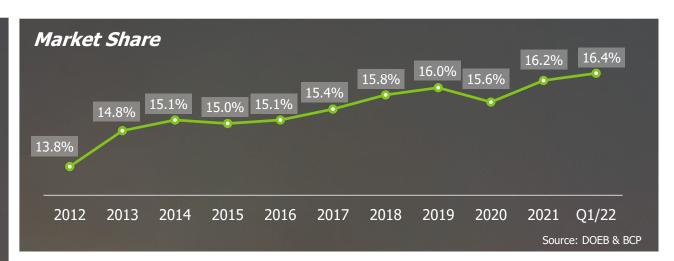
Unique Design Service Stations

Sites



"The first impression"

Deliver the best customer experience. Developing unique design service station is one of the main strategy to make BCP service stations more appealing to customers



Non-Oil Business

Coffee Business





"THE FRESH QUALITY ECO-COFFEE IN THAILAND",

serve 100% Arabica coffee beans roasted with specific process while giving back to the community and environment nationwide

853 Stores

523 sites in S/S 330 sites out S/S (as of 31 Mar 2022)

EV Charging Business



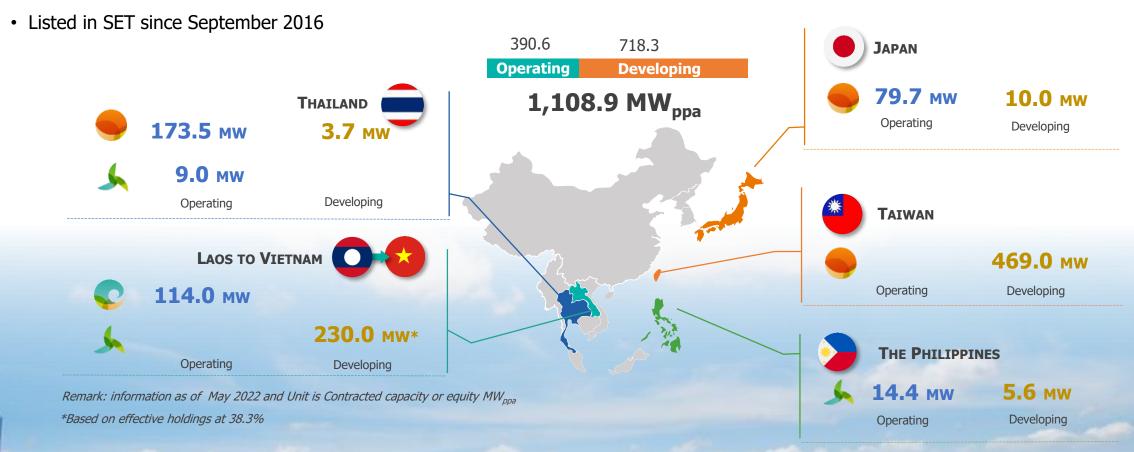


Total installed

Power Plant Business: BCPG

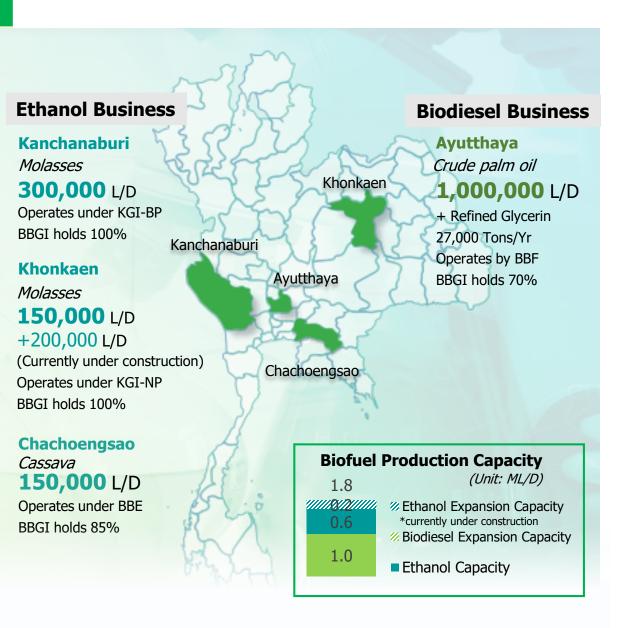


• An integrated power generation company and service provider of smart energy system focusing on renewable and clean power



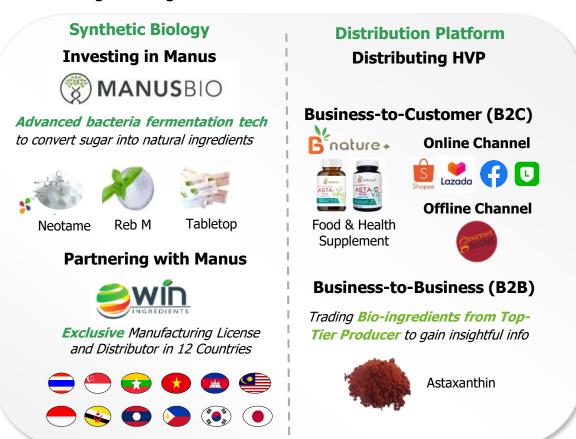
Bio-based Product Business: BBGI





Fully Integrated Biofuel Producer in Thailand

- Listed in SET since March 2022
- Collaborate with World Class Player through Investing and Partnering to Bring Bio Business to "New Frontier"

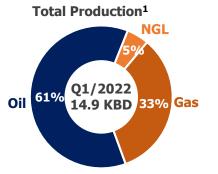


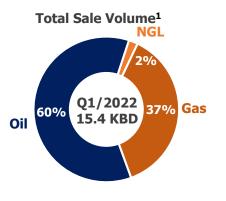
Natural Resources Business: OKEA ASA





- A Norway-based oil company engaged in the oil and gas exploration and production industry
- Listed in Oslo stock exchange since June 2019





Total Sale Volume¹ (Unit:Kboepd)

Assets	Reserves ² (mmboe)	2019	2020	2021	Q1/21	Q2/21	Q3/21	Q4/21	Q1/22
Draugen	27.9	7.9	7.9	6.9	7.1	7.0	6.5	6.9	6.6
Gjoa	7.5	7.6	7.6	8.1	8.1	6.0	10.2	8.2	7.0
Ivar Aasen	2.1	0.3	0.3	0.7	0.07	0.03	0.05	2.5	1.0
Yme ³	10.7	0.0	0.0	0.04	0.0	0.0	0.0	0.1	0.04
3 rd party volume available for sale ⁴	-	0.0	0.0	0.1	0.0	0.0	0.2	0.4	0.8
Total	48.2	15.9	15.9	15.8	15.2	13.0	17.0	18.1	15.4

Note:

1 Net to OKEA

² OKEA reserves as of 31 December 2021, except reserve from Ivar Aasen which is as of 1 January (2.777% working interest)

³ Yme First oil on 25 October 2021. Net production ~5.6 KBD for the first 12-months, and 8.4 KBD at plateau https://www.okea.no/

⁴ Compensation volume from Duva received (tie-in to Gjøa)



Appendix







Financials

EBITDA Structure (Consolidated)



Unit: THB Million	Q1/2022	Q4/2021	QoQ	Q1/2021	YoY
Total Revenue	69,055	66,762	3%	41,230	67%
Accounting EBITDA	13,714	9,281	48%	4,737	189%
Refinery and Trading Business 1/	5,021	3,084	63%	2,411	108%
Marketing Business ^{2/}	1,118	255	338%	970	15%
Power Plant Business ^{3/}	3,075	1,038	196%	979	214%
Bio-Based Product Business ^{4/}	343	255	35%	422	-19%
Natural Resources Business ^{5/}	4,251	4,832	-12%	31	>1000%
Others	(94)	(184)	49%	(76)	-24%
Profit attributable to owners of the Company	4,356	1,756	148%	2,284	91%
Basic earnings (loss) per share (Baht)	3.12	1.20		1.59	

Note: 1/ EBITDA from Refinery and Trading Business of the company (BCP), BCP Trading Pte. Ltd. (BCPT), Bangchak Fuel Pipeline and Logistic Co., Ltd. (BFPL) and others

^{2/} EBITDA from Marketing Business of the company (BCP), Bangchak Green Net Co., Ltd. (BGN), Bangchak Retail Co., Ltd., (BCR) and others

^{3/} EBITDA from Power Plant Business of BCPG Plc. (BCPG Group)

^{4/} EBITDA from Bio-Based Product Business of BBGI Plc. (BBGI Group)

^{5/} EBITDA from Natural Resources Business of OKEA ASA (OKEA), BCP Innovation Pte. Ltd. (BCPI) And BTSG Co., Ltd. (BTSG) and others

Profit and Loss (Consolidated)



Consolidated Statement of Income (THB Million)	Q1/2022	Q4/2021	QoQ	Q1/2021	YoY
Revenue from sale of goods and rendering of services	69,055	66,762	3%	41,230	67%
Cost of sale of goods and rendering of services	(56,801)	(57,473)	-1%	(36,626)	55%
Gross Profit	12,254	9,289	32%	4,604	166%
Other income	350	225	56%	142	147%
Selling and administrative expenses	(1,669)	(2,465)	-32%	(1,445)	16%
Exploration and evaluation expenses	(346)	(344)	1%	(1)	N/A
Gain (loss) from derivatives	(1,320)	133	N/A	(429)	N/A
Gain (loss) on foreign exchange	60	(75)	N/A	43	N/A
Gain from sale of investment	2,031	(2)	N/A	0	N/A
Loss from impairment of assets	563	(1,757)	N/A	400	N/A
Profit (loss) from operating activities	11,923	5,003	138%	3,313	260%
Finance costs	(836)	(809)	3%	(464)	80%
Impairment gain and reversal of impairment loss (impairment loss) determined in accordance with TFRS 9	(384)	(29)	N/A	6	N/A
Share of profit (loss) of associates and joint ventures accounted for using equity method	148	159	-7%	194	-24%
Profit (loss) before income tax expense	10,851	4,323	151%	3,049	256%
Tax income (expense)	(5,347)	(1,756)	204%	(408)	N/A
Profit (loss) for the period	5,504	2,567	114%	2,642	108%
Owners of parent	4,356	1,756	148%	2,284	91%
Non-controlling interests	1,205	811		358	
Basic earnings (loss) per share (Baht)	3.12	1.20		1.59	

Financial Ratio (Consolidated)



Profitability Ratios (%)	Q1/2022	Q4/2021	Q1/2021
Gross Profit Margin	17.75%	13.91%	11.17%
EBITDA Margin	19.86%	13.90%	11.49%
Net Profit Margin	7.97%	3.84%	6.41%
Return on Equity ^{1/} (ROE)	17.96%	15.27%	-0.05%
Efficiency Ratio (%)			
Return on Assets (ROA)	13.45%	9.51%	2.44%

^{1/} Profit and total equity attributable to owners of the parent

	31-Mar-22	31-Dec-21	31-Mar-21
Liquidity Ratios (Times)			
Current Ratio	2.19	2.03	2.12
Quick Ratio	1.46	1.40	1.35
AR Turnover	23.67	26.29	18.92
Collection Period (Days)	15	14	19
AP Turnover	16.71	18.61	20.38
Payment Period (Days)	22	20	18
Financial Policy Ratios (Times)			
Debt to Equity	1.78	1.90	1.39
Interest bearing Debt to Equity	1.11	1.28	1.13
Net Interest bearing Debt to Equity	0.49	0.81	0.79
Release of Debenture Ratio (Times)			
Net Interest bearing Debt to Net Equity	0.45	0.70	0.64



Appendix



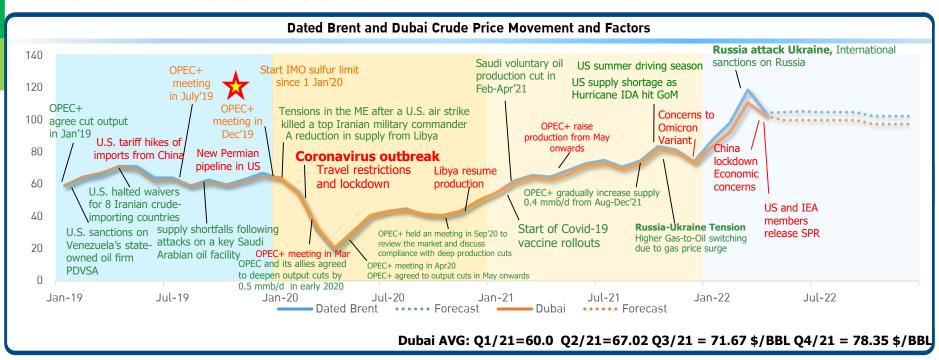




Oil Outlook

Crude Price Outlook







Crude Oil Price Outlook: Crude price move around 95-120 \$/BBL in Q2/22 on worries that sliding output in sanctions-hit Russia, the world's second-biggest oil exporter, will tighten supply. The release of Strategic Petroleum Reserve volumes equals 1.3 MBD over the next six month, enough to offset a shortfall of 1 MBD of Russian oil supply. But geopolitical supply risks led by Libya and Iran and growing loss of Russian supply could bring back supply shortfall again

Focus on Q2/22:

- Supply could be squeezed further if the EU imposes an embargo on Russian oil.
- OPEC+ stick to existing agreement with 432,000 BPD rise in May
- Libya supply loss due to disruptions from protests
- IMF cuts global GDP growth forecast for 2022 from 4.4% to 3.6% from Russia's war in Ukraine and warns of further cuts if western countries expand their sanctions against Russia.
- Concerns on China lockdown hit oil demand
- IEA members to release 1.3 MMBD oil over 6 months
- Two-month truce in Yemen would reduce oil supply threat

Market Highlights in 2022:

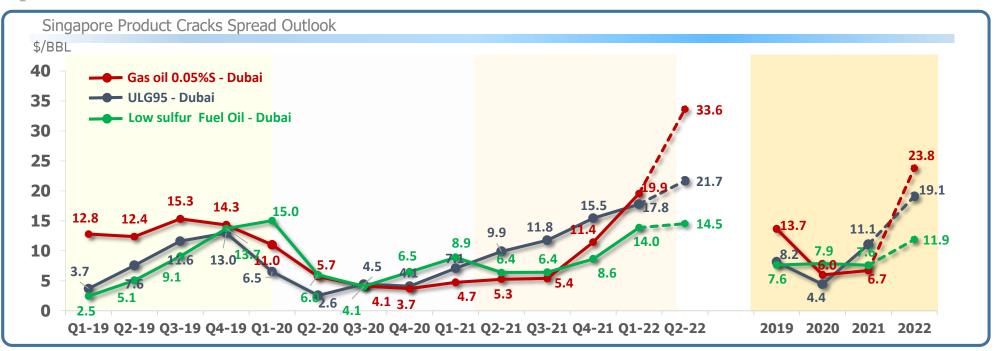
- Oil demand recovering more slowly: higher recession risk
- Lower supply due to sanctions on Russian oil
- Supply uncertainty from Libya outages and prolong Iranian sanctions lifting.
- Geopolitical supply risks in MENA
- OPEC+ production quota policy
- China stimulus hopes after economic hit by COVID-19
- Supply increase as U.S. and Iran nuclear talks.
- Low global oil products inventory, refineries will need to run harder
- Strong dollar index on potential US interest rate rise

Dated Brent – Dubai Spread

- Fears of supply shortfall in Europe, buyer avoid to buy Russian crude and gas-to-oil switching demand had drive the widen Dated Brent Dubai spread in 1Q'22
- We see the spread is softening in 2Q22 due to higher supply from SPR release, refinery maintenance and more US crude exports to Europe from growing production and arbitrage economic.
- Overall spread in 2022 could be seen in widen range due to global supply tight especially in Europe which want to replace Russian barrel.

Crack Spread Price Outlook





Stronger gasoil crack as supply tightness from Russia-Ukraine tensions amid improving demand as recovering economic activities. Stronger gasoline crack as recovering demand across the region after eased restrictions with the tightness in the West in the lead-up to the summer driving season. Higher low sulfur fuel oil crack as lower supply shift away from marine fuel production towards the more profitable gasoil pool and reduced arbitrage cargo from Middle-East

Focus on Q2/22:

- Gasoil crack will be continued strong amid supply uncertainties with concerns over supply as Russia-Ukraine tensions and against the backdrop of extremely low global inventory levels as well as continued demand recovery from the reopening of economies
- Gasoline crack will be supported as the strength demand recovery after more countries eased restrictions and further border reopening amid the refinery maintenance in Asia
- Low Sulfur Fuel oil crack will be supported as higher gasoil cracks are incentivizing refiners to move sulfur cutter supply away from marine fuel production. US refiners pay up for cargoes from the Middle East at levels Asian refiners weren't willing to pay

Market Highlights in 2022:

- The continued demand recovery to pre-COVID levels as relax restrictions and further border reopening due to the lower severity of COVID-19 variant amid widespread and booster vaccination
- Expected growth in manufacturing and industrial demand will recover after Covid-19
- The resumption of air travel after more countries gradual lifting of travel restrictions
- The Low Sulfur Fuel Oil's supply in the worldwide will be continued to fall on the back
 of continued refinery modernization and will be supported by lower supply due to
 refiners move sulfur cutter supply away from marine fuel