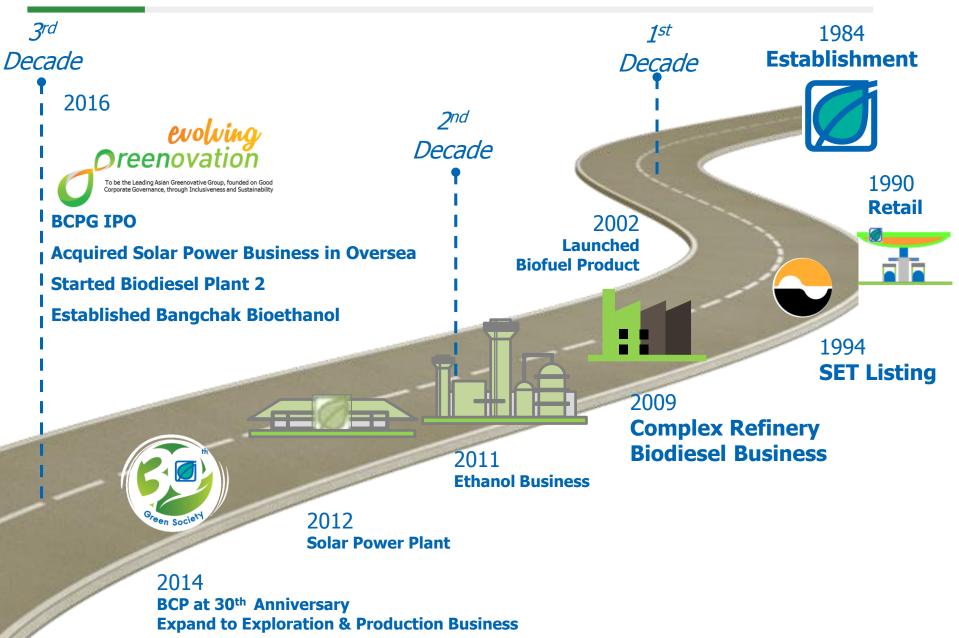
The Bangchak Petroleum PLC for Transform Technical Challenges Into New Opportunities Japan Cooperation Center, Petroleum (JCCP) 26 Jan 2017





Path of Success

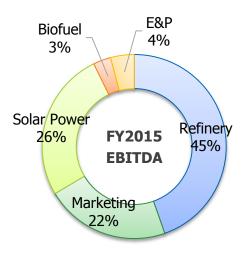




Diversified Portfolio: A balance earnings engines



Business Structure in terms of EBITDA



Core Engines



Refinery



Marketing and Retail



Green Power

Synchronization of benefit

Fully integrated model optimizing profit through business cycle

Stable earnings stream

Green Power Plant has a high visibility stream of cash flow





Biofuel

Secure feedstock and capturing biofuel demand



E&P

Adapt for long-term competitiveness

Rationalized assets and Cost control

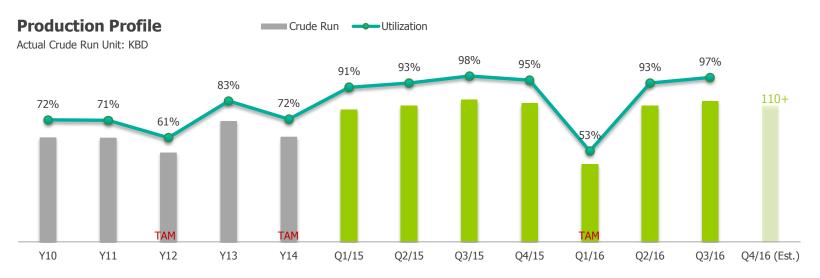


New Business

Broaden Opportunities in Regional and Global Context

Refinery Business: Stable and high crude run





TAM = Turnaround Maintenance Period

BCP Refinery Characteristic

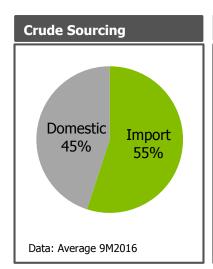
♦ Complex Refinery

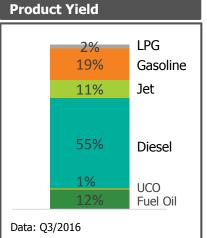
♦ Nameplate Capacity: 120 KBD

♦ Preferred crude : Sweet Crude

♦ Crude Source : Domestic and Regional

Optimize more than 20 different crude sources





Normalized VI @ 4.3 cSt

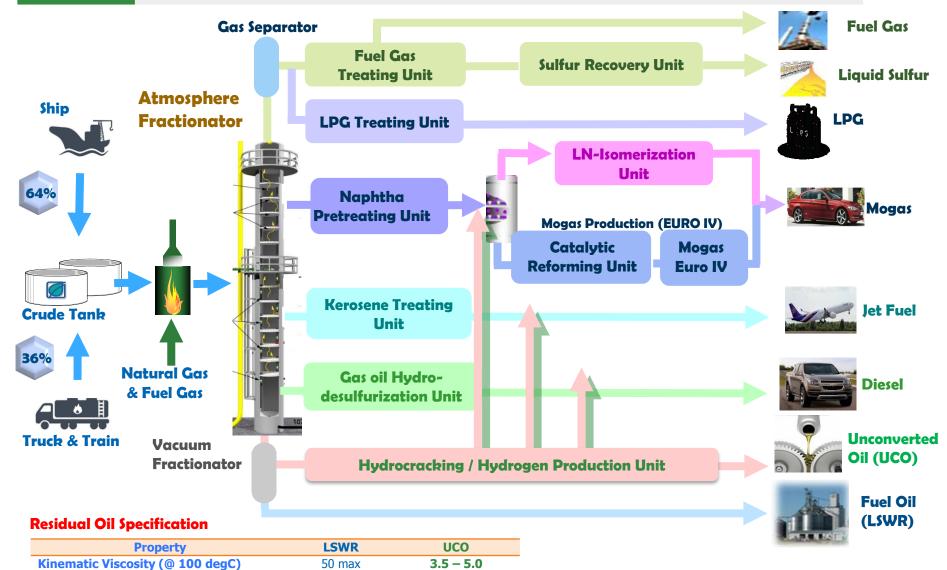
Sulfur (ppm)

Nitrogen (ppm)

5% Distillation

Refinery Business: Bangchak Refinery Process





135 min

20 max

3.0 max

350 min

3000 max

Refinery Business: 3E (Efficiency, Energy, Environment Improvement) Project



Project	Timeline	!	!	!	1
	Y2016	Y2017	Y2018	Y2019	Y2020
	New Co-Gen Power Plant (≈12 MW) ➤ Under Construction	Completion			
اوناهير	Continuous Catalyst Regeneration Unit (CCR) (Extend Maintenance Cycle)	> EPC Award		Completion	
	FEED&ITB Preparation for Enlarge Capacity				
*	Debottlenecking (For light end products) ➤ Basic Design Preparation		EPC Award NPU and ISOU		Completion

Brief Project Detail 3E Project

- Refining capacity upgrading
- Cost saving on energy consumption
- Debottlenecking for higher crude run
- Enhancing product yield

Benefits

- Improving product value
- Saving cost and energy
- * Reducing emission

New Co-Gen Power Plant





Overall Site

Boiler Stack/ Structure

Marketing and Retail: Strong and Fully Equipped Retail Networks

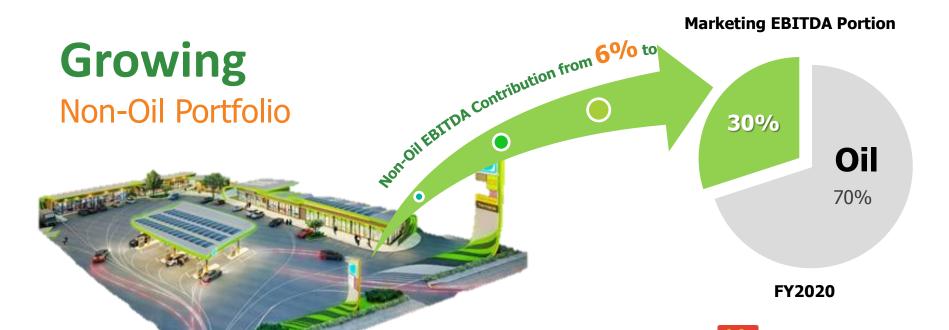




Distinguishable Market Position: Renewable Energy Leader and Provider

Marketing and Retail: Maximizing Value through Expanding Assets Capabilities



















GREEN Serve









Convenience Store



Premium Coffee



Fresh Cooking Food



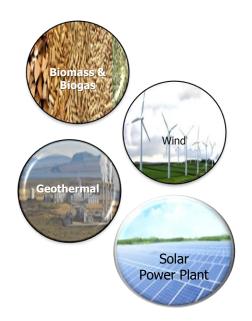


Green Power Plant Road Map





" Green Power Plant Portfolio "



Strategic Position of BCPG

Looking for favorable return together with social & environmental friendly

Broaden opportunities scope outside Thailand



Existing 195 MW

FY2015

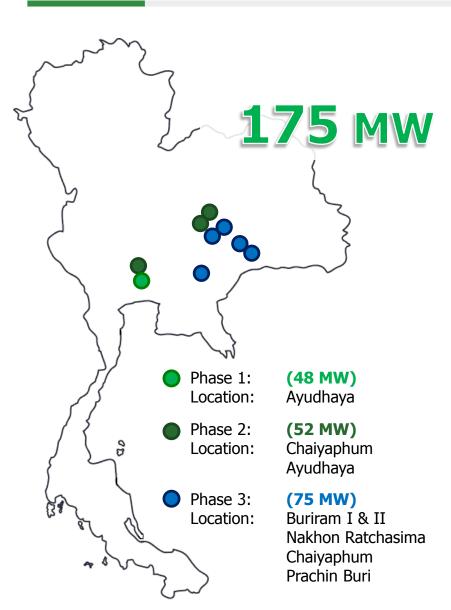
FY2016

Project	MWac
Portfolio in Thailand (Nameplate Capacity)	175
Portfolio in Japan (Commercial Operation)	20
Total	195

FY2017

BCPG Green Power Plant: Investment Stories







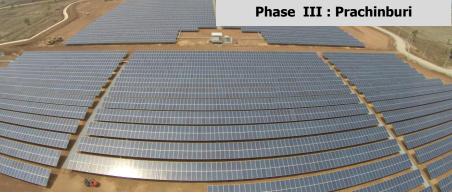
- Solar Power Plant Operator 118 MW PPA granted by EGAT and PEA.
- Granted adder THB 8/kWh on top of normal tariff rate for 10 years.
- **BOI tax privilege** to exempt corporate income tax for 8 years and 50% for 5 years afterwards.

Project	Nameplate Capacity (MW)	PPA (MW)
Phase 1 (Year 2011-2012)	48	38
Phase 2 (Year 2012-2013)	52	32
Phase 3 (Year 2013-2014)	75	48
Total	175	118

BCPG Green Power Plant: Investment Stories















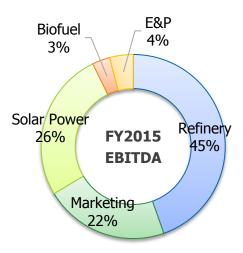




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New Engines:

Biofuel: Biodiesel Business



Biodiesel Business

Bangchak Biofuel (BBF)

Subsidiaries Company

holding 70% of total share outstanding

Production Capacity

360,000

litre/day









Biodiesel Expansion:

*** Expansion Capacity:**

+450,000

litre/day

- **❖ Start Commercial Sales in July 2016**
- **❖ Investment Cost:** ≈1,800 THB Million
- Mainly supplied to BCP



New Engines:

Biofuel: Bioethanol business







Ethanol Business

Ubon Bio Ethanol

Affiliates Company

holding 21.28% of total share outstanding

Production Capacity

400,000

litre/day









Supply Acquisition:

Bangchak Bioethanol

❖ New Capacity:

+150,000

litre/day

- Commercial operated September 2016
- **❖ Investment Cost:** ≈765 THB Million

Molasses





Overall Geographical Expansion







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