



2022 Annual Green Bond Report - Allocation and Environment Impact

BCPG Public Company Limited

Reporting Data from Sep 2021 - Sep 2022

Introduction

BCPG Public Company Limited has committed to investing in and operating green power plants, we strive to enhance our business to fulfill consumers' needs by diversifying into more types of renewable energy and seeking innovative products and services for more sustainable use of energy. We have developed the BCPG Green Bond Framework under which the Company intends to issue Green Bonds to finance or refinance, in whole or in part, new or existing investments in "Eligible Green Projects" of BCPG and its affiliates in the "Eligible Green Categories".

Green Bond framework

BCPG Green Bond framework has been reviewed externally, with a Second Party Opinion and a verification by DNV Business Assurance Australia Ltd. The review concludes that "BCPG's Green Bond Framework is credible, impactful and aligns with The International Capital Market Association Green Bond Principles ("ICMA GBP"), ASEAN Green Bond Standards ("ASEAN GBS") and Green Loan Principles ("GLP")."

Green Bond Portfolio

BCPG issued Green bonds total amount of THB 12,000 million in September 2021 (see table below). These bonds have been certified that the company comply with the Climate Bonds Standard by Climate Bonds Initiative which is an international and non-profit organization working solely to mobilize the largest capital market for climate change solutions.

Total Green bonds issued by BCPG (as of Sep2022);

Green Bond Issue Date 15 September 2021	Maturity Date	ThaiBMA Symbol	ISIN	Issuer	Curr.	Coupon (p.a.)	Principal Amount (THB Million)
Debenture 3Yrs	15 Sep 24	BCPG249A	TH7411034906	BCPG	THB	1.64%	2,000
Debenture 5Yrs	15 Sep 26	BCPG269A	TH7411036901	BCPG	THB	2.14%	1,000
Debenture 7Yrs	15 Sep 28	BCPG289A	TH7411038907	BCPG	THB	2.51%	1,000
Debenture 10Yrs	15 Sep 31	BCPG319A	TH741103B907	BCPG	THB	3.31%	4,000
Debenture 12Yrs	15 Sep 33	BCPG339A	TH741103D903	BCPG	THB	3.61%	4,000
Total							12,000

Project Portfolio (Eligible Green Projects) Use of Proceeds Allocation Report

BCPG Green Bond proceeds will be used to finance or refinance for the following eligible Green Assets.

Projects Type	Use of Funds	Name of Projects	Project Location	Original Allocation (THB Million)	Use of Proceeds as of Mar 2022 (THB Million)
Geothermal Projects	Refinancing	Salak	Indonesia	9,850	9,915
		Darajat			
		Wayang Windu			
Solar Improvements	Upgrades to existing assets	BSE-BRM, Buriram	Thailand	150	187
		BSE-PRI, Prachinburi			
Solar	New assets	Moonbear	Taiwan	2,000	881
Total				12,000	10,983

In March 2022, BCPG Public Company Limited (“BCPG”) divested 33.33% of paid-up ordinary shares in Star Energy Group Holdings Pte. Ltd. (“SEGHPL”), a holding company with subsidiaries engaging geothermal power plant business in Indonesia with a total gross capacity of 875 MW.

After the divestment of Geothermal power projects, BCPG Green Bond Allocation **as of September 2022** is as follows;

Projects Type	Use of Funds	Name of Projects	Project Location	Original Allocation (THB Million)	Use of Proceeds as of Mar 2022 (THB Million)	Geothermal Divestment in Mar 2022	Use of Proceeds as of Sep 2022 (THB Million)
Geothermal Projects	Refinancing	Salak	Indonesia	9,850	9,915	(9,915)	-
		Darajat					
		Wayang Windu					
Solar Improvements	Upgrades to existing assets	BSE-BRM, Buriram	Thailand	150	187	-	187
		BSE-PRI, Prachinburi					
Solar	New assets	Moonbear	Taiwan	2,000	881	-	881
Total				12,000	10,983	(9,915)	1,068

The proceeds from divested geothermal power projects are temporarily held in cash from March 2022 until reallocation. The reallocation is expected to be completed within December 2024.

Environmental Impact Report

Projects Type	Name of Projects	Project Location	Reporting Period	Impact Indicators	Project's Performance	Remarks
Geothermal Projects	Salak Darajat Wayang Windu	Indonesia	Sep 2021 – Mar 2022	GHG emissions intensity < 100g CO ₂ e/kWh	63.2g CO ₂ e/kWh	In 2020, the emissions intensity from electricity generation in Indonesia amounted to around 663.5g CO ₂ e/kWh.
Solar Improvements	BSE-BRM, Buriram BSE-PRI, Prachinburi	Thailand	Sep 2021 – Sep 2022	Annual renewable energy generation in MWh/GWh (electricity) and GJ/TJ (other energy)	54,825 MWh	The environment impact is calculated from the total solar plant production due to limitation in segregating impact solely from improvements.
Solar	Moonbear	Taiwan	Sep 2021 – Sep 2022	Annual GHG emissions reduced/avoided in tonnes of CO ₂ equivalent/a	N/A	Moonbear Solar project in Taiwan is under construction. Hence, environmental impact is not available as of September 2022.
				Annual renewable energy generation in MWh/GWh (electricity) and GJ/TJ (other energy)	N/A	
				Additional capacity of renewable energy plant(s) constructed or rehabilitated. in MW	N/A	