



**WHA Utilities and Power Public Company Limited**

## **Annual Green Bond Report**



**“Your Ultimate Solution Partner in Utilities & Power with **Environmental Care.**”**

**May 2023**

## Green Bonds Proceed Allocation

As of the end of April 2023, the entire amount of proceeds from the “**Green Debentures of WHA Utilities and Power Public Company Limited No. 1/2565 Tranche 1 Due B.E. 2568**” (“**Green Bonds**”) issued in May 2022 (with the total issue size of THB 1,800,000,000) were all allocated to solar projects in Thailand, in accordance with WHA Utilities and Power Public Company Limited’s Green Bond Framework, May 2022.

The proceed allocation is as following:

Date	Brief Description	Amount (THB) – Proceed from Green Bonds	Amount (THB) – Other sources
1 June 2022	To refinance the equity portion of solar projects That the company invest during 2019 – 2021	1,475,701,582.1	-
1 June 2022	To refinance the equity portion of solar projects That the company invest during 1 January – 31 May 2022	146,723,565.4	-
1 July 2022	To refinance the equity portion of solar projects That the company invest during 1 – 30 June 2022	177,574,852.5	34,119,463.5
<b>Total</b>		<b>1,800,000,000.0</b>	<b>34,119,463.5</b>

### Description of Related Solar Projects:

No.	Type of Project	Brief Description	WHAUP’s share of Install Capacity	MW	COD
1.	Solar Rooftop	Location: Rayong	100%	0.50	18-Jan-2019
2.	Solar Rooftop	Location: Samutprakarn	100%	0.58	27-May-2019
3.	Solar Rooftop	Location: Rayong	100%	0.80	18-Oct-2019
4.	Solar Rooftop	Location: Pathum Thani	100%	1.00	18-Feb-2020
5.	Solar Rooftop	Location: Phathomthani	100%	0.50	18-Jun-2019
6.	Solar Rooftop	Location: Nakhonnayok	100%	1.00	6-Jun-2019
7.	Solar Rooftop	Location: Rayong	100%	0.43	16-Aug-2019
8.	Solar Rooftop	Location: Rayong	100%	1.58	1-Mar-2020
9.	Solar Rooftop	Location: Samutprakarn	100%	0.43	1-Nov-2019
10.	Solar Rooftop	Location: Rayong	100%	1.00	1-Dec-2019
11.	Solar Rooftop	Location: Rayong	100%	0.11	1-May-2020
12.	Solar Rooftop	Location: Rayong	100%	0.20	1-May-2020
13.	Solar Rooftop	Location: Rayong	100%	0.06	1-Jan-2020
14.	Solar Rooftop	Location: Phetchaburi	100%	4.99	4-Mar-2020
15.	Solar Rooftop	Location: Chonburi	100%	4.82	1-Nov-2020
16.	Solar Rooftop	Location: Rayong	100%	1.50	1-Apr-2020
17.	Solar Rooftop	Location: Songkhla	100%	1.39	19-Aug-2020
18.	Solar Rooftop	Location: Rayong	100%	0.50	1-Mar-2020
19.	Solar Rooftop	Location: Rayong	100%	0.65	16-Sep-2020
20.	Solar Rooftop	Location: Saraburi	100%	1.00	1-May-2020
21.	Solar Rooftop	Location: Phetchaburi	100%	1.00	28-Oct-2020
22.	Solar Rooftop	Location: Rayong	100%	0.99	19-Aug-2020

No.	Type of Project	Brief Description	WHAUP's share of Install Capacity	MW	COD
23.	Solar Rooftop	Location: Chachoengsao	100%	0.50	15-Jul-2020
24.	Solar Rooftop	Location: Udonthani	100%	2.01	16-Sep-2020
25.	Solar Rooftop	Location: Rayong	100%	4.19	1-Mar-2021
26.	Solar Rooftop	Location: Suratthani	100%	1.95	27-Oct-2020
27.	Solar Rooftop	Location: Prachinburi	100%	2.47	16-Jun-2021
28.	Solar Rooftop	Location: Ayutthaya	100%	2.47	16-Dec-2020
29.	Solar Rooftop	Location: Samutprakarn	100%	1.00	18-Nov-2020
30.	Solar Rooftop	Location: Chonburi	100%	1.00	23-Dec-2020
31.	Solar Rooftop	Location: Rayong	100%	2.01	6-Jan-2021
32.	Solar Rooftop	Location: Rayong	100%	2.12	1-Oct-2021
33.	Solar Rooftop	Location: Rayong	100%	0.88	15-Dec-2021
34.	Solar Rooftop	Location: Rayong	100%	0.83	1-Nov-2021
35.	Solar Rooftop	Location: Ratchaburi	100%	2.33	11-Dec-2021
36.	Solar Rooftop	Location: Saraburi	100%	2.05	25-Aug-2021
37.	Solar Rooftop	Location: Ayuthaya	100%	0.68	1-Apr-2022
38.	Solar Rooftop	Location: Rayong	100%	2.14	1-Jun-2022
39.	Solar Rooftop	Location: Chonburi	100%	1.80	1-Jan-2022
40.	Solar Rooftop	Location: Chonburi	100%	1.00	1-Jun-2022
41.	Solar Rooftop	Location: Chonburi	100%	19.44	Under construction
42.	Solar Rooftop	Location: Suratthani	100%	2.10	Under construction
43.	Solar Rooftop	Location: Chonburi	100%	0.99	Under construction
44.	Solar Rooftop	Location: Rayong	100%	0.70	Under construction
45.	Solar Rooftop	Location: Rayong	100%	1.14	Under construction
46.	Solar Rooftop	Location: Rayong	100%	1.83	Under construction
47.	Solar Rooftop	Location: Rayong	100%	0.50	Under construction
48.	Solar Rooftop	Location: Ayuthaya	100%	1.00	Under construction
49.	Solar Rooftop	Location: Rayong	100%	0.52	Under construction
50.	Solar Rooftop	Location: Samutsakorn	100%	1.00	Under construction
51.	Solar Rooftop	Location: Chonburi	100%	1.10	Under construction
52.	Solar Rooftop	Location: Rayong	100%	1.00	Under construction
53.	Solar Rooftop	Location: Ayuthaya	100%	0.71	Under construction
54.	Solar Rooftop	Location: Samutprakarn	100%	1.00	Under construction
55.	Solar Rooftop	Location: Samutprakarn	100%	9.61	Under construction
<b>Total</b>				<b>99.10</b>	<b>MW</b>

## Green Bonds Impact Reporting

No. of Related Solar Projects	Capacity (MW)	Production (MWh)	GHG emission (tonCO2eq)	Avoided Emission (tonCO2eq)
55	99.10 <sup>1/</sup>	69,269.46 <sup>2/</sup>	0	35,625.28 <sup>2/</sup>

\*Remarks: <sup>1/</sup>The capacity of 99.10 MW includes project under construction.

<sup>2/</sup>The production of 69,269.46 MWh and the Avoided Emission of 35,625.28 tonCO2eq are annual production and annual avoided emission from operating projects only.