



Star Energy Geothermal (Wayang Windu) Limited

Climate Bonds Standard Version 3.0

Post-Issuance Verification Report for year 2023

By Climate Finance Asia Limited

POST- ISSUANCE VERIFICATION REPORT

Post-Issuance Verification Report for year 2023 for:

The US\$580 million Senior Secured Notes due 2033 (the “Green Bond”)

Issued by Star Energy Geothermal (Wayang Windu) Limited

INTRODUCTION AND SCOPE

Star Energy Geothermal (Wayang Windu) Limited (“Wayang Windu” / the “Issuer”), a geothermal energy company operating a geothermal power plant with a gross installed capacity of 230.5 MW situated in the Wayang Windu contract area near the town of Pangalengan in West Java of Indonesia, issued a US\$580 million Senior Secured Notes due 2033 (the “Green Bond”) in April 2018. Wayang Windu commissioned Climate Finance Asia Limited (“CFA”/“Verifier”) to compile a Verifier’s Report to verify, for the year 2023 based on the Green Bond’s information in year 2023 and before, whether the issued Green Bond has met the Post-Issuance Requirements of the Climate Bonds Standard issued by the Climate Bond Initiative (the “CBI”).

CRITERIA

Relevant Climate Bonds Standard for this Post-Issuance Verification:

- Climate Bonds Standard (Version 3)
- The Climate Bonds Taxonomy: Sector Eligibility Criteria – Geothermal Projects & Assets

ISSUER’S RESPONSIBILITY

Wayang Windu is responsible for providing accurate information and documentation relating to:

- Projects that have been funded by the proceeds of the Green Bond
- Technical aspects of the nominated projects & assets
- Internal processes & controls
- Updated reportings

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VERIFIER'S RESPONSIBILITY

CFA conducted this independent Post-Issuance Verification of the Green Bond issued by Wayang Windu in accordance with the requirements of the Climate Bonds Standard Version 3.0 and the Climate Bonds Taxonomy's Sector Eligibility Criteria for Geothermal assets, and based on the limited assurance procedures as defined by the International Standard on Assurance Engagements, ISAE 3000 (Revised) - Assurance Engagements other than Audits or Reviews of Historical Financial Information ("ISAE 3000"), issued by the International Auditing and Assurance Standards Board.

This report relies on the information provided by the Issuer to the Verifier: documentation, interviews with selected staff, and explanations presented during the assessment.

CFA's approach to assess whether the Issuer's Green Bond meets the Post-Issuance Requirements and Criteria of the Climate Bonds Standard Version 3.0 is as follows:

- The Issuer provided background documents of the Green Bond and an overview of the assets that was financed or refinanced by the proceeds of the Green Bond.
- The issuer provided answers to the questionnaire raised and information requested by the Verifier that covers all Post-Issuance requirements and criteria of the Climate Bonds Standard V 3.0.
- Based on the answers to the questionnaire and information documents provided, the Verifier carried out an assessment in accordance with the requirements and criteria of the Climate Bonds Standard. In case any answers were unclear or additional information required, the Verifier contacted the Issuer for more details and clarification.

INDEPENDENCE

With the exception of this task, the Verifier provides no other services relating to the Issuer's operation and green finance instruments. The Verifier has applied internal procedures to confirm no conflicts of interest for this verification engagement. Neither the Verifier nor any Verifier's representatives is/ are involved in the arrangement and management of the Green Bond in any form.

OPINION

Based on the limited assurance procedures conducted and evidence obtained, nothing has come to our attention that causes us to believe that, in all material respects the Issuer's Green Bond for the year 2023, is not in conformance with the Climate Bonds Standard's Post-Issuance Requirements.



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22 August 2024

Disclaimer

This verification report shall be read in the context of the inherent limitations of its intended use of the Issuer and Climate Bonds Standard Board.

The scope of verification is limited to the confirmation of information substantiated as evidence and criteria outlined in the Framework. With the exception of reviewing documents and interviewing selected staff of the Issuer, the Verifier did not conduct any site visit at Nominated Projects and Assets.

This report does not assure the financial performance or the value of the bond. The Verifier is not liable for the induced consequences when third parties use this opinion either to make investments decisions or any kind of business transaction.

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ANNEX: DETAILED FINDINGS

5. USE OF PROCEEDS

| | REQUIREMENT | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|-----|---|---|--------------------------------|
| 5.1 | Net proceeds shall be allocated to Nominated projects & assets | The entire proceeds of US\$580 million from the Green Bond was fully applied to repay the outstanding indebtedness under an Existing Senior Debt Facilities, a refinancing of the indebtedness incurred for financing the 230.5 MW geothermal turbine-generator unit of the Project and related equipment and facilities, being eligible assets under Geothermal sector criteria of the Climate Bonds Taxonomy. | None |
| 5.2 | Nominated Projects & Assets in conformance with the Bond's documented objectives and requirements of Part C of the Climate Bonds Standard | The full amount of the net proceeds was used to refinance geothermal projects which are in conformance with the Geothermal Sector Eligibility Criteria as required under Part C of the Climate Bonds Standard. | None |
| 5.3 | Allocation of proceeds within 24 months of issuance of the bond | The full amount of the net proceeds of the Green Bond were allocated to repay the existing debt facilities of the Issuer on the next day of the issuance of the Green Bond. | None |
| 5.4 | Nominated Projects & Assets shall not be nominated to other Certified Climate Bonds/ Loans/Debt Instruments. | Nominated projects and assets refinanced by the proceeds of this bond have not been nominated for other Certified Climate Bonds, Certified Climate Loans, Certified Climate Debt Instruments, green bonds, green loans or other labeled instruments. | None |
| 5.5 | The Issuer shall track the share of the Net Proceeds used for financing | The entire net proceeds of this Green Bond were used for 100% refinancing the nominated projects & assets on the next day from the date of issuance of this Green Bond. | None |

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| REQUIREMENT | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|---|---|--------------------------------|
| and refinancing. This may also include the expected look-back period for refinanced Nominated Projects & Assets. | | |
| 5.6 Net Proceeds of the Bond shall be tracked. | The use of proceeds of this Green Bond is tracked via the "Green Bond Register" which shows the Sources and the Uses of the proceeds of the Green Bond. | None |
| 5.7 The Net Proceeds of the Bond shall be no greater than the Issuer's total investment exposure or debt obligation to the Nominated Projects & Assets. | The Net Proceeds of the Bond is no greater than the Issuer's total investment exposure or debt obligation to the Nominated Projects & Assets. | None |
| 5.8 Additional Nominated Project & Assets may be added to the portfolio of Nominated Project & Assets. | No additional nominated projects or assets have been added to the nominated list of projects & assets. | None |

6. PROCESS FOR EVALUATION AND SELECTION OF PROJECTS & ASSETS

| | REQUIREMENT | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|-----|---|--|--------------------------------|
| 6.1 | The Issuer shall document and maintain a decision-making process which it uses to determine the continuing eligibility of the Nominated Projects & Assets, including: | The Issuer has documented the decision-making process to determine the eligibility of nominated projects and assets as follows: its Treasury Department will propose the Use of Proceeds which shall be in line with the agreed Use of Proceeds criteria, and its Green Bond Committee will validate and confirm the eligibility. | None |
| | 6.1.1) A statement on the Climate-related objectives of the Bond | Since the proceeds of the Green Bond has been fully and entirely used for the repayment of the outstanding indebtedness under the Existing Senior Debt Facilities of Wayang Windu Geothermal Asset, the Issuer has reported that there was no project evaluation and selection in 2023. | |
| | 6.1.2) Climate-related objectives of the bond within the context of the issuer's strategy | The climate-related objectives of the Green Bond is to help reduce Indonesia's overall carbon emissions. Indonesia's energy mix shows that the national electricity grid is still heavily reliant on carbon-intensive electricity. The Wayang Windu geothermal power generation facilities support the Indonesian government's sustainability strategy as to decrease greenhouse gas emissions by 29% by 2030. | |
| | 6.1.3) Issuer's rationale for issuance the Bond | Proceeds of the issued Green Bonds, which is in accordance with its Green Bond Framework, will only be used in connection with assets with emissions of less than 100g CO2 per kWh estimated carbon intensity, which compares favorably to the local grid (Jamal's) average emission factor for electricity of over 870g CO2 per kWh in 2019. | |
| | 6.1.4) Process determining whether the Nominated projects & assets meet the eligibility requirement | Excluded Use of Proceeds include: <ul style="list-style-type: none"> - Oil and gas power plant; - Clean coal or any other fossil fuel-related technologies; - Nuclear and nuclear related technologies; - Large-scale hydropower plant; - Infrastructure that facilitate the above no.1-4 of energy generation. | |
| | 6.1.5) Other information | | |

7. MANAGEMENT OF PROCEEDS

| | REQUIREMENTS | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|-----|---|--|--------------------------------|
| 7.1 | Net proceeds shall be credited to a sub account and documented | The full amount of the net proceeds was allocated to repay Existing Senior Debt Facilities immediately after issuance. | None |
| 7.2 | Issuer shall maintain the earmarking process to manage the Net Proceeds allocation to Nominated Projects & Assets. | To keep track of the use of proceeds of the Green Bond, the Issuer has maintained a "Green Bond Register" and has earmarked the proceeds for the respective nominated projects and assets. | None |
| 7.3 | The balance of the tracked Net Proceeds shall be reduced by amounts allocated to Nominated Projects & Assets. The balance of unallocated Net Proceeds shall be: | The full amount of the net proceeds was allocated to repay Existing Senior Debt Facilities immediately after the Green Bond issuance. | None |
| | 7.3.1) Held in temporary investment instrument; | | |
| | 7.3.2) Held in temporary investment instruments of non-GHG intensive projects; | | |
| | 7.3.3) Applied to temporarily reduce debt of revolving nature. | | |

8. REPORTING

| | REQUIREMENTS | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|-----|--|--|--------------------------------|
| 8.1 | <p>The Issuer shall prepare an Update Report at least annually:</p> <p>8.1.1) available to holders of the Bond and Climate Bonds Standard Board;</p> <p>8.1.2) available to Public;</p> <p>8.1.3) to Holders of the Bond on a timely basis in case of material developments.</p> | <p>The Issuer publishes Annual Green Bond Report, which is made available to the public on the Company's corporate website (www.starenergygeothermal.co.id) on an annual basis.</p> | None |
| 8.2 | <p>The Update Report shall include:</p> <p>8.2.1) Allocation Reporting;</p> <p>8.2.2) Eligibility Reporting;</p> <p>8.2.3) should include Impact Reporting.</p> | <p>The Issuer publishes annually the Annual Green Bond Reports, written on the basis of the company's Green Bond Register and provide the following information:</p> <ul style="list-style-type: none"> - Allocation Reporting: The amount of net proceeds allocated within each Green Bond Asset category, as well as the balance of net proceeds not yet allocated to Green Bond Assets; - Eligibility Reporting: The latest indicator of the environment impact of the nominated projects & assets, for complying to the Sector Eligibility Criteria of Geothermal; - The Issuer has included in its "Annual Green Bond Report" under "Issuer Overview" a reporting on the Impact of the Issuer, and the Issuer customarily provides a Sustainability Report on annual basis. - | None |
| 8.3 | Allocation Reporting | <p>The Issuer's Annual Green Bond Report 2024 (dated August 2024) showing the Allocation Reporting is as per below website link:</p> | None |

| REQUIREMENTS | | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|--------------|--|---|--------------------------------|
| | | [https://www.starenergygeothermal.co.id/wp-content/uploads/2024/08/Annual-Green-Bond-Report-of-SEGWWL-for-the-year-2023-2024-release.pdf] | |
| 8.4 | Eligibility Reporting | The eligibility details are available in the Issuer's Annual Green Bond Report 2024 (dated August 2024, website link as per above item 8.3) | None |
| 8.5 | Reasons for confidentiality | Detail information about the nominated projects and assets are available in the annual Green Bond Report 2024 which is available to the public via the Company's website. | None |
| 8.6 | Impact Reporting | The Impact Reporting is available in the Issuer's Annual Green Bond Report 2024 (dated August 2024, website link as per above item 8.3) | None |
| 8.7 | The Issuer shall make available to the public any Verifier Reports or material which supports the Update Report | Relevant Reports and material are publicly available on the Issuer's website. | None |
| 8.8 | Information on Nominated Projects & Assets and Management of Proceeds shall be provided to Verifier and Climate Bonds Standard Board for conformance assessment. | Relevant information has been provided. | None |

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9. PART C: ELIGIBILITY OF PROJECTS & ASSETS – CLIMATE BONDS TAXONOMY

| | REQUIREMENTS | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|-----|---|--|--------------------------------|
| 9.1 | The Nominated Projects & Assets shall fall into the investment areas listed in the Climate Bonds Taxonomy | The Nominated Projects & Assets falls into “Geothermal” of the Climate Bonds Taxonomy’s Sector Eligibility Criteria. | None |

10. PART C: ELIGIBILITY OF PROJECT & ASSETS – SECTOR ELIGIBILITY CRITERIA

| | REQUIREMENTS | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|------|---|---|--------------------------------|
| 10.1 | The Nominated Projects & Assets shall meet the specific eligibility requirements provided in the relevant Sector Eligibility Criteria documents | <p>Sector Eligibility Criteria – Geothermal:</p> <ul style="list-style-type: none"> - Criterion 1 - Direct Operational Carbon Intensity: Facilities with direct emissions of less than 100gCO₂/kWh are deemed to be low emitting, which is comparable with other low carbon options (renewables or nuclear) on a lifecycle basis: <p>As per “Annual Green Bond Report 2024 (dated August 2024)”, the environment impact indicator of the Nominated Projects & Assets as of 2023 indicated that the Issuer’s geothermal electricity generation facility’s direct CO₂ emission was 58.16g/KWH, which is less than the 100g CO₂/KWH threshold and meets the Geothermal Sector Eligibility Criteria;</p> <ul style="list-style-type: none"> - Criteria 3&4 – Environmental, health, safety and social criteria: All projects | None |

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|--------------|--|--------------------------------|
| | <p>associated with Climate Bonds must comply with the environmental regulations of the host country. In addition to this requirement we propose additional criteria to enhance EHS and social performance for all projects:</p> <p>As per “Star Energy Geothermal (Wayang Windu) Limited – Annual Green Bond Report 2024 (dated August 2024)”, Wayang Windu is an active supporter of various programmes in the environmental sector, as well as of the economic development of the community in its operational area.</p> <p>The Company was awarded and certified many times for its environmental management and community empowerment, nationally and internationally.</p> <p>Throughout the year, Wayang Windu attained awards and certifications include among others:</p> <ul style="list-style-type: none"> - PROPER Green Award from the Indonesian Ministry of Environment and Forest. PROPER’s rating presents the Company’s performance on how companies manage environmental and social aspects. PROPER inauguration was held on 20 December 2023 for period 2022-2023. - Zero Accident Award from the Indonesia Ministry Of Employment for Wayang Windu was received on 9 June 2023. - Continue Implementation of SMK3(PP 50/2012) Occupational Health & Safety | |

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| REQUIREMENTS | FACTUAL FINDINGS | ERROR OR EXCEPTIONS IDENTIFIED |
|--------------|--|--------------------------------|
| | Management System, certificate valid until June 2026. | |
| | <ul style="list-style-type: none"> - Continue Implementation of ISO 50001:2018 Energy Management System. Certificate valid until 20 March 2026. - Continue Implementation of Integrated Geothermal Operations Management System (IGOMS). | |

ANNEX: DOCUMENTS REVIEWED

The list of reviewed documents is as follows:

- Star Energy Geothermal (Wayang Windu) Limited – Annual Green Bond Report 2024 (dated August 2024);
- Star Energy Geothermal (Wayang Windu) Limited – Green Bond Framework (February 2018);
- Star Energy Geothermal (Wayang Windu) Limited 6.75% Secured Senior Notes due 2033 – Green Bond Register;
- Star Energy Geothermal (Wayang Windu) Limited 6.75% Secured Senior Notes due 2033 – Offering Memorandum;

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