2018 年 4 月 24 日
株式会社 日本貿易保険

環境レビュー結果

(1) 照会番号
17-011

(2) プロジェクト名
地熱発電所

(3) 実施場所
インドネシア　南スマトラ州

(4) プロジェクト概要
地熱発電所の建設

(5) カテゴリ分類
カテゴリ A

(6) カテゴリ分類の根拠
本件は、環境ガイドラインに示される影響を及ぼしやすい特性及び、影響を受けやすい地域を伴うため。

(7) 環境許認可
インドネシアの環境法制に基づき、環境社会影響評価書が作成され、2017 年 3 月にインドネシア環境森林省から承認された。

(8) 汚染対策
大気、水質、騒音、悪臭に対して、適切な手段が取られていると判断される。

(9) 自然環境面
プロジェクトサイトに保安林があるが、同国法令により地熱発電開発は認められている。また、周辺の自然環境や生物多様性の維持について適切な措置が講じられている。

(10) 社会配慮面
本プロジェクトの実施により影響を受ける住民に対して、補償と支援プログラムが実施されており、適切な措置が講じられている。なお、非自

発的住民移転は発生しない。また、本プロジェクトの近隣に文化遺産は存在しない。

(11) 適用国際基準
IFC パフォーマンススタンダード

(12) その他（モニタリング等）
事業者は、インドネシアの法令に則りモニタリング結果を環境当局に提出する。

以　上

Questions

Q1. Please provide the address of the project site.

Address of the project site: Muara Enim Regency, Lahat Regency, Pagar Alam City, South Sumatra Province

Q2. Please provide brief explanation of the project.
Geothermal IPP project for building, owning and operating power plant to sell electricity to PT. PLN. PT Supreme Energy, Engie, and Marubeni Corporation are the sponsors developing the project. PT. Supreme Energy Rantau Dedap, the project company owned by the Sponsors, executed PPA with PT. PLN in November 2012, and now in the stage to achieving the Finance Close.

Q3. Will NEXI insurance be applied to a new project or an executing project? In case of an executing project, please inform of strong claims by stakeholders such as local residents, as well as improvement guidance or cessation orders for construction work / operations, from environmental authorities.

- (☐) New Project
- ☐ Executing Project (without Claim etc.)
- ☐ Executing Project (with Claim etc.)
- ☐ Others (Please specify)

Q4. In case of this project, is it necessary to execute Environmental and Social Impact Assessment (ESIA) based on the laws or regulations of the country where the project is to be implemented? If necessary, please inform the progress of ESIA.

- ☐ Required (Completed)
- ☐ Not Required
- (☐) Required (Under execution or under planning)
- ☐ Others (Please specify)

Q5. In case that ESIA is already completed, please inform whether ESIA report is already approved based on the environmental and social assessment system of the country where the project is to be implemented or not. If ESIA report is already approved, please provide the date and name of authorities of the approval.

- ☐ Approved (without condition)
- (☐) Under approval process
- ☐ Approved (conditional)
- ☐ Others (Please specify)

Date of Approval: _____
Name of Authorities: _____

Q6. If environmental and social permit(s) other than ESIA is required, please provide the name of required permit(s). Have you obtained required permit(s)?

- ☐ Obtained
- ☐ Not required
- (☐) Required, but not obtained yet
- ☐ Others (Please specify)

Name(s) of required permit(s): Environmental Permit, Surface Water Abstraction (SIPA) Permit, Permit to Temporarily Store Hazardous Waste,

Q7. Will the insurance be used for the undertaking that cannot specify the project at this stage (e.g. export or lease of machinery that has no relation with specific project, or Two Step Loan that cannot specify the project at the time of loan agreement)?

(Yes /(No))

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to the following questions.

Q8. Are there any environmentally sensitive area(s) shown below in and around project site(s)?

(Yes / No)

If you answered "Yes", please select applicable items by marking, and reply to the following questions.
If you answered "No", please reply to the questions 9 and after.

- ☐ (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for ethnic minorities or indigenous peoples and cultural heritage, etc. designated by national governments)
- ☐ (2) Forests with important ecological value (including primary forests and natural forests in tropical areas)
- ☐ (3) Habitats with important ecological value (including coral reefs, mangrove wetland and tidal flats)
- ☐ (4) Habitats of rare species requiring protection under domestic legislation, international treaties, etc.
- ☐ (5) Areas in danger of large-scale salt accumulation or soil erosion
- ☐ (6) Areas with a remarkable tendency towards desertification
- ☐ (7) Areas with unique archaeological, historical or cultural value
- ☐ (8) Areas inhabited by ethnic minorities, indigenous peoples or nomadic peoples with traditional ways of life (including areas which are used for cultural or spiritual purposes) and other areas with special social value

Q9. Does the project involve following characteristics?

(Yes / No)

If you answered "Yes", please describe the scale of applicable characteristics, and reply to the questions 10 and after.
If you answered "No", please reply to the questions 11 and after.

- ☐ (1) Involuntary resettlement and/or loss of means of livelihood (Number of affected people:)
- ☐ (2) Pumping of groundwater (Scale: 652 ton /hr)
- ☐ (3) Land reclamation, development and/or clearing (Scale: land clearing of 9.51 non-protection forest and 104.8ha protection forest area)
- ☐ (4) Deforestation (Scale: included in the 104.8ha of protection forest area)

Q10. Under the environmental and social impact assessment system of the country where the project is to be implemented, do the applicable characteristics from (1) – (4) of the questions 9 and their scale serve as basis for executing an ESIA for the project?

☐ They do ☐ They do not
☐ Others (Please specify)

Q11. May the project involve significant social impacts?

(Yes / No)

If you answered "Yes", please describe the outline of the impacts, and reply to the questions 12 and after.
If you answered "No", please reply to the questions 12 and after.

- ☐ The likelihood of severe project-related human rights impacts ( )
- ☐ Others ( )

Q12. Will the value insured by NEXI in the export, loan or investment project be equal or less than 5% of the total project cost, or equal or less than SDR 10 million? (In the case of additional support for a past project, this shall be the accumulated total amount)

(Yes / No)

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to the questions 13 and after.

Q13. Does the project belong to either of the sectors that impact on the environment and society is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansionary renovation project, and acquisition of rights and interests without additional capital investment)?

(Yes / No)

If you answered "Yes", it is not necessary to reply to the following questions.
If you answered "No", please reply to the questions 14 and after.

Q14. Does the project belong to the following sectors?

(Yes / No)

If you answered "Yes", please specify the sector by marking, and reply to the questions 15 and after.
If you answered "No", it is not necessary to reply to the following questions.

- ☐ (1) Mining
- ☐ (2) Oil and natural gas development
- ☐ (3) Pipelines
- ☐ (4) Iron and steel (projects that include large furnaces)
- ☐ (5) Non-ferrous metals smelting and refining
- ☐ (6) Petrochemicals (manufacture of raw materials; including complexes)
- ☐ (7) Petroleum refining
- ☐ (8) Oil, gas and chemical terminals
- ☐ (9) Paper and pulp
- ☐ (10) Cement plants (including a greenfield quarry)
- ☐ (11) Manufacturing and transport of toxic or poisonous substances regulated by international treaties, etc.
- ☐ (12) Thermal power
- ☐ (13) Nuclear power
- ☐ (14) Hydro power, dams and reservoirs
- ☐ (15) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables
- ☐ (16) Roads, railways and bridges
- ☐ (17) Airports
- ☐ (18) Ports and harbors
- ☐ (19) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity
- ☐ (20) Waste management and disposal
- ☐ (21) Agriculture involving large-scale land clearing or irrigation
- ☐ (22) Forestry
- ☐ (23) Tourism (Construction of hotel, etc.)

Q15. Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generation, etc.) Further, pleased explain whether an execution of EISA is required on account of the large scale of the project in the country where the project is implemented.

Project Area	114.3ha (92% of the site is a protected forest area / 8% of the site is an area of other use)
Production Capacity	92MW (gross)

The project companies is now under process of acquiring ESIA (AMDAL) and permits which are required to develop, construct and operate the geothermal power plant.