

環境チェックレポート

(1) プロジェクト名

地熱発電プロジェクト

(2) 実施場所

インドネシア共和国南スマトラ州

(3) プロジェクト概要

地熱発電所の建設・所有・操業

(4) カテゴリ分類

カテゴリ A

(5) カテゴリ分類の根拠

本事業は、環境ガイドラインに掲げる影響を及ぼしやすい特性を持ち、影響を受けやすい地域あるいはその近傍に立地するため。

(6) 環境許認可

インドネシア共和国制度に基づき、ESIA（環境社会影響評価報告書）が作成され、2017年3月に同国環境森林省により付帯条件付きで承認を取得済である。事業会社は付帯条件について適切に対応する予定である。

(7) 汚染対策

大気質、水質、廃棄物及び騒音・振動等について、適切な措置が講じられている旨、確認されている。

( 8 ) 自然環境面

自然環境面への影響に対して、適切な措置が講じられている旨、確認されている。

( 9 ) 社会配慮面

本プロジェクトにより社会経済的な影響を受ける住民等への配慮について、対応計画が策定され、適切な措置が講じられている旨、確認されている。

( 10 ) 適用国際基準

IFC パフォーマンススタンダード

( 11 ) その他・モニタリング

上述の環境レビュー結果を踏まえ、ESIA に係る付帯条件の遵守状況、生態系保全活動の実施状況及び生態系保全活動に関わる当局からの指摘等の有無等についてモニタリングを実施する予定。

以 上



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

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

**Q7.** Will the loan 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 people, 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 above 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 JBIC share in the project be equal or less than 5% of the total project cost, or the total amount of JBIC loan 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) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (12) Thermal power
- (13) Nuclear power
- (14) Hydropower, 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 hotels, 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, please explain whether an execution of ESIA is required on account of the large scale of the project in the country where the project is implemented.