

平成 22 年 3 月 9 日
独立行政法人 日本貿易保険

環境レビュー結果

- (1) 照会番号
09-059
- (2) プロジェクト名
LNG プロジェクト
- (3) 実施場所
パプアニューギニア サザンハイランズ州他
- (4) プロジェクト概要
ガス田開発及び LNG 施設の建設等
- (5) カテゴリ分類
カテゴリ A
- (6) カテゴリ分類の根拠
環境ガイドラインに示される石油・天然ガス開発セクター、パイプラインセクター、石油・ガス・化学物質ターミナルセクター、港湾セクターに該当し、影響を及ぼしやすい特性（非自発的住民移転等）及び影響を受けやすい地域（国指定の保護対象地域、保護が必要とされる貴重種の生息地、先住民の生活区域等）を伴うため。
- (7) 環境許認可
現地国環境関係制度に基づき環境影響評価報告書が作成され、パプアニューギニア国環境保全省より許認可を取得済である（2009 年 9 月）。
- (8) 汚染対策
各施設において対策が講じられ、大気、騒音については国際基準を満足する計画であり、水質については現地基準および国際基準を満足する計画である。その他の汚染対策についても適切に対策が講じられ、特段の問題は予見されない。

(9) 自然環境面

近隣に現地国で定める保護対象区域等が存在するが、適切なパイプラインルートを選定、適切な工法の採用、生物多様性保全計画の策定等により対策が講じられる。

保護が必要とされる貴重種への配慮として、植物については建設範囲の最小化や植生回復等により植生の消失緩和策を実施し、動物については生息場所の事前調査や個別の管理計画の策定等により影響の緩和が講じられる。

(10) 社会配慮面

本プロジェクトにより移転を含む社会経済的な影響を受ける住民や先住民族への配慮、影響を受ける文化遺産への配慮については、それぞれについて対応計画が策定され、それらに基づき措置が講じられる。

(11) その他（モニタリング等）

パプアニューギニア国環境保全省の指定する項目（排水、大気質、騒音等）に関するモニタリングが実施され、パプアニューギニア国環境保全省に報告される。また、被影響住民の生活環境に関するモニタリング、貴重種を含む生物相についてのモニタリング等が計画されている。

以 上

Questions

Q1. Please provide the address of the project site.

Papua New Guinea

Q2. Please provide brief explanation of the project.

Gas development and construction of LNG plant and related facilities

Q3. Will NEXI insurance be applied to a new project or an executing project? In case of executing project, please inform the presence of strong claims by local residents.

- | | |
|---|--|
| <input checked="" type="checkbox"/> New Project | <input type="checkbox"/> Executing Project (with Claim) |
| <input type="checkbox"/> Executing Project (without Claim) | <input type="checkbox"/> Others (Please specify) |

Q4. In case of this project, is it necessary to execute Environmental Impact Assessment (EIA) based on the laws or regulations? If necessary, please inform the progress of EIA.

- | | |
|--|---|
| <input type="checkbox"/> Required (Completed) | <input checked="" type="checkbox"/> Required (Under execution or under planning) |
| <input type="checkbox"/> Not Required | <input type="checkbox"/> Others (Please specify) |

Q5. In case that EIA is already completed, please inform whether EIA report is already approved based on the environmental assessment system or not. If EIA report is already approved, please provide the date and name of authorities of the approval.

- | | |
|---|---|
| <input type="checkbox"/> Approved (without condition) | <input type="checkbox"/> Approved (conditional) |
| <input checked="" type="checkbox"/> Under approval process | <input type="checkbox"/> Others (Please specify) |

Date of Approval :

Name of Authorities :

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

- | | |
|--|--|
| <input type="checkbox"/> Obtained | <input type="checkbox"/> Required, but not obtained yet |
| <input type="checkbox"/> Not required | <input checked="" type="checkbox"/> Others (Please specify) |

Name(s) of required permit(s) : **Environment Permit (subsequent to approval of EIS, also from DEC)**

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 shown below in and around project site?

(Yes / No)

If you answered "Yes", please select applicable items by marking, and reply to following questions.

If you answered "No", please reply to questions 9 and after.

- (1) National parks, protected areas designated by government (coastal areas, wetlands, habitats of minorities or indigenous populations, heritage sites, etc.)
- (2) Primeval forests, tropical natural forests
- (3) Ecologically important habitats (coral reefs, mangrove, tidal flats, etc.)
- (4) Habitats of endangered species of which protection is required under local laws and international agreements
- (5) Areas that have risks of large scale increase in soil salinity or soil erosion
- (6) Desertification areas
- (7) Areas with special values from archaeological, historical and/or cultural viewpoints
- (8) Habitats of minorities, indigenous populations, nomadic people with traditional life style, or areas with special social value

Q9. Does the project involve following elements?

(Yes / No)

If you answered "Yes", please describe the scale of applicable elements, and reply to the questions 10 and after.

If you answered "No", please reply to questions 11 and after.

- (1) Involuntary resettlement (Number of resettlers: **Households identified to date: 200**)
- (2) Pumping of groundwater (Scale: ton/year)
- (3) Land reclamation or/development (Scale: ha)
- (4) Deforestation (Scale: **Approx 3300 ha**)

Q10. Please reply to this question only in case that the project involves some of the above (1) to (4) elements. In the country where the project is planned, are there any regulations on a scale of the elements asked in question 9? If the country has such regulation, please answer whether the project satisfies the regulation or not.

- Regulation is applicable** (satisfied not satisfied) No regulation
- Others (Please specify)

Please reply to questions 11 and after.

Q11. Will NEXI 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?

(Yes / No)

If you answered "Yes", it is not necessary to reply to the following questions.

If you answered "No", please reply to questions 12 and after.

Q12. Does the project belong to either of the sectors that impact on the environment is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansionary renovation project, acquisition of rights or interest without additional plant investment)?

(Yes / No)

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

Q13. Does the project belong to the following sectors?

(Yes / No)

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

- (1) Hydro power plant, Dam or water reservoir
- (2) Thermal power plant
- (3) Mines
- (4) **Development of oil and gas**
- (5) **Pipeline**
- (6) Steel industry (with large scale furnace)
- (7) Non-ferrous metal refining
- (8) Petrochemical (including manufacturing of raw materials and petrochemical complex)
- (9) **Terminal of oil, gas and chemicals**
- (10) Petroleum refining
- (11) Paper and pulp
- (12) Manufacturing and/or transportation of hazardous substances (specified by international agreement)
- (13) Road, railway or bridge
- (14) Airport
- (15) **Port**
- (16) Waste material processing or treatment
- (17) Treatment of sewage and/or waste water that includes hazardous substances or executed at environmentally sensitive area
- (18) Power transmission and/or distribution lines (including large scale involuntary resettlement, large scale deforestation or submarine cable)
- (19) Tourism (Construction of hotel, etc.)
- (20) Forestry or tree planting
- (21) Agriculture (large scale project and/or project including irrigation)

Q14. 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 EIA is required on account of the large scale of the project in the country where the project is implemented.

Expected LNG production is approximately 6.3 million tons per year.