

平成 25 年 1 月 31 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
11-028
- (2) プロジェクト名
LNG プロジェクト
- (3) 実施場所
オーストラリア連邦 西オーストラリア沖合及び北部準州
- (4) プロジェクト概要
天然ガスの開発及び天然ガス液化施設の建設等
- (5) カテゴリ分類
カテゴリ A
- (6) カテゴリ分類の根拠
本件は、環境ガイドラインに示される大規模な石油・天然ガス開発、パイプライン、石油・ガス・化学ターミナル、火力発電、及び港湾セクターに該当し、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
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、連邦政府の環境・持続可能性・水資源・人口・地域社会省（Department of Sustainability, Environment, Water, Population and Communities）、北部準州（Northern Territory）の天然資源・環境・芸術・スポーツ省（Department of Natural Resources, Environment and the Arts and Sports）及び計画省（Planning Ministry）から承認を取得している。
- (8) 汚染対策
大気質、水質、騒音の計画値は国際基準等を概ね満足する見込みである。その他の汚染対策も適切に講じられる。

(9) 自然環境面

プロジェクトサイト内に保護区は設定されていない。プロジェクトサイト周辺海域にはサンゴ群落が存在するが、サンゴ礁が破壊されることはなく、プロジェクト実施による重大な影響は予見されない。サイト周辺陸域ではマングローブ林等を含む植生が一部伐採されるが、影響軽減のため、事業者による植林等の適切な対策が講じられる。

(10) 社会配慮面

本プロジェクトは、非自発的住民移転等を伴わない。プロジェクトサイト陸域に先住民族に関する文化遺産が存在するが、先住民族とも協議の上で適切な保全対策が検討されており、プロジェクトによる重大な影響は予見されない。

(11) 適用国際基準

IFC パフォーマンススタンダード（Performance Standard）

(12) その他（モニタリング等）

現地国法令に基づいた大気質、水質、騒音、生態系（サンゴなど）等に関するモニタリングを実施するべく、事業者等関係者により工事の進捗にあわせて必要なモニタリング計画が作成される予定である。

以 上

Questions

Q1. Please provide the address of the project site.

Address of the project site: Section 1813 and 1814, Hundred of Ayers, Blaydin Point, Darwin, Northern Territory, Australia.

Q2. Please provide brief explanation of the project.

INPEX Browse, Ltd. (INPEX) proposes to develop the natural gas and associated condensate contained in the Ichthys gas and condensate field situated about 220 km off Western Australia's Kimberley coast and about 820 km west south west of Darwin. The field encompasses an area of approximately 800 km² in water depths ranging from 235 to 275 m. It consists of an upper reservoir in the Cretaceous Brewster Member and a lower reservoir in the Jurassic Plover Formation.

The two reservoirs which make up the field are estimated to contain 12.8 tcf (trillion cubic feet) of sales gas and 527 MMbbl (million barrels) of condensate. INPEX proposes to process the reservoir fluids to produce liquefied natural gas (LNG), liquefied petroleum gases (LPGs) and condensate for export to overseas markets.

For the Ichthys Project, the company plans to install offshore extraction facilities at the field and a subsea gas pipeline from the field to onshore facilities at Blaydin Point in Darwin Harbour. A two train LNG plant, with associated LPG fractionation plants and condensate stabilisation plants, and a product loading jetty will be constructed at a site on Blaydin Point. Around 85% of the condensate will be extracted and exported directly from the offshore facilities while the remaining 15% will be processed at and exported from Blaydin Point.

In May 2008 INPEX referred its proposal to develop the Ichthys Field to the Commonwealth's Department of the Environment, Water, Heritage and the Arts and the Northern Territory's Department of Natural Resources, Environment and the Arts. The Commonwealth and Northern Territory ministers responsible for environmental matters both determined that the Project should be formally assessed at the environmental impact statement (EIS) level to ensure that potential impacts associated with the Project would be identified and appropriately addressed.

Assessment has been undertaken by INPEX in accordance with the Environment Protection and Biodiversity Conservation Act 1999 (Cwlth) and the Environmental Assessment Act (NT). It was agreed that INPEX should submit a single EIS document to the two responsible government departments in the Northern Territory and the Commonwealth for assessment.

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.

- | | |
|---|--|
| <input checked="" type="checkbox"/> New Project | <input type="checkbox"/> Executing Project (with Claim etc.) |
| <input type="checkbox"/> Executing Project (without Claim etc.) | <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 of the country where the project is to be implemented? 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 of the country where the project is to be implemented 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 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 checked="" type="checkbox"/> Obtained | <input checked="" type="checkbox"/> Required, but not obtained yet | |
| <input type="checkbox"/> Not required | <input type="checkbox"/> Others (Please specify _____) |) |

Name(s) of required permit(s): Obtained: License to take fauna for scientific purposes, Authority to enter Department of Conservation and Land Management land and/or waters, Authority certificates, Permit to take wildlife for commercial purposes, and Development permits
Not yet obtained: Environment plan, Major hazard facility safety report and license, Dangerous goods transport license, Security plan, Clearance of development area for Aboriginal sacred sites or archaeological sites, Approval required to interfere with any historic shipwreck covered by Commonwealth legislation, Shipping management, Environmental protection license, and Waste discharge license

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)?

(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)

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 characteristics?

(Yes)

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 questions 11 and after.

- ☐ (1) Involuntary resettlement (Number of resettlers:)
- ☐ (2) Pumping of groundwater (Scale: m³ /year)
- ☐ (3) Land reclamation, development and/or clearing (Scale: 352 ha)
- ☐ (4) Deforestation (Scale: 352 ha)

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

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

Q11. 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)

(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-expansory renovation project, acquisition of rights or interests without additional capital investment)?

(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)

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) 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) Manufacturing and transport of toxic or poisonous substances regulated by international treaties, etc.
- ☒ (11) Thermal power
- ☐ (12) Nuclear power
- ☐ (13) Hydro power, dams and reservoirs
- ☐ (14) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables
- ☐ (15) Roads, railways and bridges
- ☐ (16) Airports
- ☒ (17) Ports and harbors
- ☐ (18) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity
- ☐ (19) Waste management and disposal
- ☐ (20) Agriculture involving large-scale land clearing or irrigation
- ☐ (21) Forestry
- ☐ (22) Tourism (Construction of hotel, etc.)

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.

The Ichthys Field is located in the Browse Basin, around 450 km north north east of Broome and 820 km west-south-west of Darwin. The field encompasses an area of approximately 800 km² in water depths ranging from 235 to 275 m. Appraisal drilling and development studies suggest that the P50 resources of the Ichthys Field are 12.8 tcf (trillion cubic feet) of sales gas and around 527 MMbbl (million barrels) of condensate, split between a Cretaceous reservoir in the Brewster Member and a Jurassic reservoir in the Plover Formation.

INPEX intends to install a floating central processing facility (CPF) for the extraction of natural gas and condensate at the Ichthys Field. The bulk of the condensate will be exported directly from the field at an average rate of 85 000 barrels per day (at the start of LNG production) after processing on a floating production, storage and offtake (FPSO) facility moored some distance from the CPF. Natural gas and LPGs from the field will be directed through a gas export pipeline from the field to onshore facilities at a site zoned for industrial development at Blaydin Point in Darwin Harbour in the Northern Territory. The gas will be processed through a two train 8.4 Mt/a LNG processing plant. This production rate represents the average plateau rate over the first 23 years of the Project. Thereafter, LNG production will gradually decline as the Project slowly runs out of gas but continues to produce LNG at rates below 8.4 Mt/a. Total annual production will vary from year to year depending on factors such as the composition of the gas from the reservoir and the duration and frequency of maintenance activities. The onshore processing plant will also produce up to approximately 1.6 Mt/a of LPGs and 15 000 barrels per day of condensate which will be carried to the plant with the gas stream.

The construction phase of the Project will cover a period of 5 to 6 years from the final investment

decision (FID) to the export of the first cargo of gas approximately five years later. Approval for the construction and operation of the Project requires environmental assessment by both the Commonwealth Government and the Northern Territory Governments on account of its scale and complexity and potential to impact of “matters of national environmental significance” .