

環境チェックレポート

- ( 1 ) プロジェクト名  
石炭焚き火力発電プロジェクト
- ( 2 ) 実施場所  
モロッコ王国 / サフィ地区
- ( 3 ) プロジェクト概要  
超々臨界圧石炭焚き火力発電所の建設、操業を行うもの。
- ( 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セクター（火力発電セクター）に該当し、影響を及ぼしやすい特性（土地造成）を伴うため。
- ( 6 ) 環境許認可  
同国制度に基づき EIA 報告書が作成され、2013 年 10 月（港湾施設）、2014 年 3 月（発電プラント・石炭灰処分場）に同国エネルギー省より付帯条件付で承認取得済である。
- ( 7 ) 汚染対策  
大気質、水質、廃棄物、騒音・振動について、適切な対策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、適切な対策が講じられている旨、確認されている。
- ( 9 ) 社会配慮面  
本プロジェクト実施に伴う住民移転は発生しない。社会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。
- ( 10 ) 適用国際基準  
IFC パフォーマンススタンダード

( 1 1 ) その他・モニタリング

上述の環境レビューを踏まえ、EIA 報告書に係る付帯条件の遵守状況、関連する許認可の取得状況、騒音及び生態系についてモニタリングを実施する予定。

以 上

## Questions

Q1. Please provide the address of the project site.

Address of the project site : Commune of Ouled Selmane, Site of Jorf Lihoudi (15km South of Safi, Kingdom of Morocco)

Q2. Please provide brief explanation of the project.

Development, construction, operation and maintenance of the 1.250 MW (net) coal fired thermal power plant, coal unloading facilities and ash disposal site

Q3. Will JBIC loan 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 checked="" type="checkbox"/> Under approval process | <input type="checkbox"/> Others (Please specify ) |

Date of Approval : \_\_\_\_\_

Name of Authorities : National Committee for Impact Assessment (Comité national d'évaluation des études d'impact (CNEI))

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 checked="" type="checkbox"/> Not required | <input type="checkbox"/> Others (Please specify )       |

Name(s) of required permit(s) : \_\_\_\_\_

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)?

(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?

(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 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: \_\_\_\_\_ m<sup>3</sup>/year)
- (3) Land reclamation, development and/or clearing (Scale: ca. 100 ha for the power plant site + ca. 20 ha for the ash disposal site)
- (4) Deforestation (Scale: \_\_\_\_\_ 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 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)

(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 and 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) Manufacture and transport of toxic or poisonous substances regulated by international treaties, etc.
- (11) Thermal power
- (12) Nuclear power
- (13) Hydropower, 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 hotels, 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 project is to be located in a coastal area and mostly uninhabited area in Jorf Lihoudi, 15km South of city of Safi, Morocco.
- The project concerns the development, construction, operation and maintenance of 1,250MW (net) coal fired thermal power plant, coal unloading facilities and ash disposal site. The power generation will depend on off taker (Office National de l'Electricité et de l'Eau Potable (ONEE))'s needs, but the power plant is likely to produce base load electricity.
- The plant is likely to be built on a 100 ha on-shore area (for the power plant and connected buildings) and will also encompass a 15 ha off-shore surface (mostly for the water intake and the cooling water outflow).
- EIA is requested by 12-03 Moroccan law for each project subject of an impact on the environment because of their nature, their dimension, or if their location may produce negative impacts on the biophysical environment and human.

## Coal Fired Power Plant

### Project outline

Development, construction, operation and maintenance of a coal fired power plant (ultra super critical)

### Reason of Categorization

The project falls into the thermal power plant sector under the Environmental Guidelines and has a sensitive characteristic under the Environmental Guidelines.

### Documents that JBIC has already acquired

EIA

### Remarks

The EIA is available at the JBIC information center.  
(due to the data-handling capacity)

1. \* Date of Release : 2014-02-05
2. \* Category : A
3. \* Project Site : Kingdom of Morocco Safi
4. \* Reference Number : 2014-0022