# 環境レビュー結果

- (1) 照会番号 11-026
- (2) プロジェクト名水力発電所建設プロジェクト
- (3) 実施場所ベトナム ゲーアン省
- (4) プロジェクト概要水力発電所建設プロジェクト
- (5) カテゴリ分類カテゴリA
- (6) カテゴリ分類の根拠

本プロジェクトは、環境ガイドラインに示される大規模な水力発電、ダム、貯水地セクターに該当し、影響を受けやすい地域(少数民族の生活区域)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、ゲーアン省人民委員会に提出され、2010年11月に同人民委員会より許認可を取得済である。

(8) 汚染対策

本プロジェクトは、貯水池の水質悪化防止のために、湛水前に貯水池内にある樹木等の伐採を行う計画であり、また、特に水質汚染の要因となるような活動も行われないため、プロジェクトにより表流水の水質が悪化することはない。

#### (9) 自然環境面

プロジェクトサイト内の自然林は、政府から地元住民が利用できるよう解放された森林である。また、緩衝地帯をはさみ周辺にある最も近い保護区からの距離が 15km 以

上あり、これら保護区への影響は予見されない。更に、下流域への放水量はゲーアン省により管理され、また、乾季で発電所が操業していない場合でも適切な維持流量を放水する計画であることから、重大な影響は予見されない。

#### (10) 社会配慮面

プロジェクト実施者は、少数民族を含めた地元住民に対して適切に情報提供を継続的 に行う計画である。また、人民委員会が被影響住民に対して説明を行い、少数民族の 移転及び補償に係る法律に則り、被影響住民である少数民族の要望に配慮した補償計 画書が人民委員会により作成されている。

#### (11) 適用国際基準

世界銀行セーフガードポリシー

### (12) その他 (モニタリング等)

下流域への放水に関する情報が地元住民に周知されるシステムが構築される。

以 上

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## Questions

Q1.	Please provide t	he address	of the project :	site.
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Address of the project site: Chi Khe Village, Con Cuong District, Nghe An Province, Vietnam.

Q2. Please provide brief explanation of the project.

The Chi Khe hydropower plant project is being developed on the downstream of Ca river, Con Cuong district, Nghe An province, 18km away from Khe Bo Hydropower plant towards upstream and 9km away from Con

Ban Ve I The total	HPP and Khe Bo HPP. Chi Khe HPP will I	be the	r of Vietnam. As planned, along Ca river there will that Hydropower plant along main line of Ca river, eximately 191.3 million KWh of electricity per annual etnamese national power grid.	
please in	ill NEXI insurance be applied to a new proform of strong claims by stakeholders so orders for construction work / operations,	uch as	r an executing project? In case of an executing project local residents, as well as improvement guidance environmental authorities.	ct or
	New Project Executing Project (without Claim etc.)		Executing Project (with Claim etc.) Others (Please specify	)
Q4. In laws or progress	regulations of the country where the pro	ecute ject is	Environmental Impact Assessment (EIA) based on the to be implemented? If necessary, please inform the	ie ie
	Required (Completed) Not Required		Required (Under execution or under planning) Others (Please specify	)
environn	case that EIA is already completed, please nental assessment system of the country was approved, please provide the date and name	here th	m whether EIA report is already approved based on the project is to be implemented or not. If EIA report thorities of the approval.	ie is
	Approved (without condition) Under approval process		Approved (conditional) Others (Please specify	)
	of Approval: November 11th 2010 of Authorities: Nghe An People's Comm	nittee		
Q6. If Have you	environmental permit(s) other than EIA u obtained required permit(s)?	is req	uired, please provide the name of required permit(s	).
	Obtained Not required		Required, but not obtained yet Others (Please specify	)
Nan	ne(s) of required permit(s):			
ease of r	fill the insurance be used for the undertaking machinery that has no relation with specific of loan agreement)?	ng tha	at cannot specify the project at this stage (e.g. export of ect, or Two Step Loan that cannot specify the project of the proje	or at
	( )			

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)?



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.						
<ul> <li>(1) National parks, protected areas designated by government (coastal areas, wetlands, habitats of minorities or indigenous populations, heritage sites, etc.)</li> <li>(2) Primeval forests, tropical natural forests</li> </ul>						
<ul> <li>         \( \) \( \) (3) Ecologically important habitats (coral reefs, mangrove, tidal flats, etc.)     </li> <li>         \( \) (4) Habitats of endangered species of which protection is required under local laws and international agreements.     </li> </ul>						
<ul> <li>(5) Areas that have risks of large scale increase in soil salinity or soil erosion</li> <li>(6) Desertification areas</li> </ul>						
<ul> <li>         ☐ (7) Areas with special values from archaeological, historical and/or cultural viewpoints     </li> <li>         ☐ (8) Habitats of minorities, indigenous populations, nomadic people with traditional life style, or areas with special social value     </li> </ul>						
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 questions 11 and after.						
(1) Involuntary resettlement (Number of resettles: Whouseholds including 39 people) (2) Pumping of groundwater (Scale: m³/year)						
(3) Land reclamation, development and/or clearing (Scale: ha)  (4) Deforestation (Scale: 19.82 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)						
(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 interests without additional capital 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.						

O13.	Does the	project	belong	to the	e following	sectors?
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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
一	(6)	Petrochemicals (manufacture of raw materials; including complexes)
Ī	(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
$\times$	(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
$\sqcap$	(20)	Agriculture involving large-scale land clearing or irrigation
「	(21)	Forestry
	(22)	Tourism (Construction of hotel, etc.)
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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, pleased 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.

Total land area for the project:	Γ	623.96 ] 10 <sup>4</sup> m <sup>2</sup>
Includes: Reservoir:	Ĩ	589.46 ] 10 <sup>4</sup> m <sup>2</sup>
Transfomers:	Ī	1,580 ] m <sup>2</sup>
Power house:	Ī	2,223,36 ] m <sup>2</sup>
Other use area:	Ī	34.12 ] 10 <sup>4</sup> m <sup>2</sup>
Average power output:		191,29 ] million KWh.
Total capacity:		41 ] MW
Number of unit:		02 ] unit ([21.50] MW/unit)
Transmission line:		03 1 km.