

The Sites selection Project for Wind Power Plants initiated by regional communities

Background and Purpose

- Designing and Planning of wind power plants conducted by project proponents has tended to lag behind originally scheduled due to;
 - coordination with stakeholders, and
 - procedures required for regulations concerned
- Thus, it is necessary to ease the burden of the proponent related to Environmental Impact Assessment procedure (post "Scoping"), by selecting suitable sites considered on stakeholders, regulations, and environmental impact initiated by regional communities in a blanket manner.
- Aiming at compressing the time span (planning to groundbreaking) in average, 5 -7 years, to 3 years at maximum, by establishing the sites selection method.

Project scheme

- Expected players : local municipality or private entity
- Term for the project: FY2015 FY2017

Abstract

<u>1) Establishing the method for the sites selection</u> Compiling a Guideline for the sites selection Project for Wind Power initiated by regional communities focusing on;

- limitation by attributes of the project / the region
- Prior consultation about regulations concerned
- reconciliation method for stakeholders/ inhabitants
- good practices of carrying EIA procedure
- 2) Demonstration project in selected model regions

Calling for local municipalities that are proactive in inviting to set up Wind Power stations. The project consists of;

- coordinating with individuals / organizations concerned
- collecting information available at present, and
- reviewing feasible studies

in the model regions. (7 regions incl. onshore, offshore)

Expected outcome

- Mitigating business risks and environmental consideration in early stage
- Encouraging to establish bases for supply of renewable energy
- Realization of actual case of Strategic Environment Assessment



Model regions of the Zoning Project for Wind Power Plant initiated by regional communities



Asia EIA Conference 2016

Group D : Upstream EIA and SEA

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The Sites Selection Project for Off-shore Wind Farm Initiated by the City of Kitakyushu





G2060 Green Growth Model City selected by OECD (2011)

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Profile of Kitakyushu City



Hibikinada region Wakamatsu Tobata Moji Yahata Kokura

Basic Data of Kitakyushu City

OBorn by consolidation of 5 cities in 1963

- O Area: 488km²
- O Population: 0.97 million
- O Major industries: Steel works, Chemical, Cement, Ceramic, Automobile etc...
- **O**Rich Natural Resources
- Surrounded by the sea (north and east side)
- •Forest: 40% of city area



History of Environmental Policy in Kitakyushu

Overcoming Severe Environmental Pollution



Kitakyushu Eco Town Project (Recycle Industrial Zone)

International Cooperation for Sustainable Development in Asia





Plastic Bottle/Office Equipment/Home Appliance /Waste paper/Waste Wood/ etc... TOTAL 26 Recycling factories In Kitakyushu (up to 2012 in total) Trainees from Abroad : 6,638 people from 140 countries Experts dispatch to Abroad : 160 people to 25 countries

Kitakyushu Regional Energy Base Project

- •Energy policy in the city of Kitakyushu
- •Shortage of electric power supply after the great East earthquake in 2012
- Necessity of stable energy supply of low price and low carbon as local government

Potential to Developing Base as Renewable Energy and High-efficiency thermal power

- Good wind condition
- Large scale LNG and coal base
- Vast land for industry







	Kind of Energy / Potential		Progress
Renewable Energy	Solar power/	Max.100MW	In operation
	Off-shore wind power/	Max.700MW	7450kw: In EIA proceedings
High-efficiency thermal	LNG /	1,600MW	In EIA proceedings
	Biomass (incl. coal mix) /	Max.500MW	112MW × 2units: EIA end
Total	Max.3,000MW		

Potential capacity for off-shore wind farm in the Hibikinada region

Potential Capacity: 700MW (5MW × 140units)



The Sites Selection Project for Off-shore Wind Farm Initiated by local government (Subsidized by Ministry of Environment)

•Coordination different opinions among stakeholders and various regulation law procedure by local government initiative

- Survey of local environment and utilizing them to EIA procedures
- \Rightarrow Strategic zoning of suitable area for off-shore wind farm
- \Rightarrow Encouraging private companies to proceed to project plans in the view of







Zoning Plan of Suitable Area in Port area (incl. Proposed Area)



Items of Further Survey and Countermeasures Required

 \Rightarrow Field survey in detail by the city of Kitakyushu \Rightarrow Provide these data to private companies for avoidance of environmental impact and conducting EIA procedures effectively.

Columba janthina

MB4ONN

Pandion haliaetus



The results of field survey and forecast by the City of Kitakyushu

•Survey area : 24,000ha

●Items (in 2015) : Birds (land •sea), Landscape, Noise

OBirds: Radar survey







Activities for Citizens' Understanding by the City of Kitakyushu

Seminars





Tours





Plan and action in 2016 by Initiatives of the city of Kitakyushu

- Survey for birds: Add the new radar survey point
- > Survey for bats
- Survey for wheals (Neophocaena Asiaeorientalis) by sound
- Pilot model projects for avoidance of bird collisions

• by UV paint 🖌 by impulse wave

> Seminars and tour for citizen's understanding



etc..

Schedules of Offshore Wind Farm Project

OPublic offering for private companies :2016 in Summer OEIA procedure :2016~2018



Thank you for your attention!



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