

We Support Wind Energy Development !

Location-Desktop Study Exploring the most appropriate site using GIS

Analyzing the business potential, environmental impact, and local regulations are key factors for planning the wind power project and finding the potential land. Moreover, the cooperation of the local government is necessary and indispensable to advance the business smoothly.

Based on the nationwide network Asia Air Survey provides the screening survey and analysis services to find potential and candidate site by utilizing GIS database with the valuable information about the local site. We also support information-gathering activity for local laws and regulations list and arrange the licensing procedure and permitting process to construct the wind mill.



Organizing & analyzing local information

Basic Design

Providing accurate geospatial information



When the potential site is determined, precise digital topographic map is important to review efficiently for the basis design such as the windmill distribution, the route of the installation, and facilities arrangement. Geospatial information significantly helps the windmill installation, civil engineering works, landscape reviewing and local ecosystems analyzing. We own and operate a fleet of aircraft, installed LiDAR sensor system, to provide accurate geospatial information for customers.

3D Red Relief Image Map Based on LiDAR data

Environment Assessment Services based on long-standing experience

Environmental assessment is strongly required for the wind power generation facilities of 10,000kW or more by the environmental impact assessment law into effect in April of 2013.

We have a long standing experience, knowledge and knowhow in the field of the wind power project., and provide strong support for the communication with local communities to conclude agreement, government approvals, noise survey/prediction, rare bird survey and protection measures, landscape planning and environmental impact assessment procedure.



Landscape review using 3D model

Installation Flow Chart - Wind Farm

	Research for potential site and collect wind	We
STEP1 Location Survey	conditions Investigation of geographic condition (natural and social condition) Designing wind farm size 	■ Find • Scree • Confi • Colle
STEP2 Wind Condition Survey	 Wind condition survey Estimate wind conditions quality and power generation capacity Reviewing the outline of economic performance 	Organi collect with ou
STEP3 Basic Design	Designing the windmill placement Select windmill size and type Planning the financial arrangements	■ Acq • Provi • Creat ⇒ Es • Provi
STEP4 Negotiations	Negotiation with electric power company for transmission line systems and buying and selling of electric power.	(topog Organi in colla
STEP5 Government Approvals	 Environmental assessment(noise pollution, low frequency sound, landscape, indigene) Forest Act ,Agricultural Land Act, Act for Improvement of Agricultural Promotion Areas, Building Standard Law, Civil Aeronautics Act, Seacoast Law etc 	■ Doc license ■ Env ⇒ A standir
STÉP6 Execution Design	 Field and geological survey Facility design, construction design, execution scheme, and transportation plan 	■ Prop geolog ■ Plar and uti
STEP7 Construction work	Material transportation Civil engineering , facility/electric construction Test operation and inspection	partner Organi engine facilitie
STEP8 Operation & Maintenan <u>ce</u>	Monitoring the operating condition Maintenance check of facilities	Organ for mo

can Support! d potential sites & conduct local survey ening laws and regulations info using GIS irmation of land owner information ct land classification, power cable route ation zing the wind condition survey project for the wind speed, shear and local information ur partner company uisition of precise geospatial data de LiDAR/Aerial survey service te precise contour map ssential information for the basic design de the data for turbulent flow analysis raphical relief, tree height etc) izing the consultation with concerned parties aboration with our partner company. umentation for government approvals and es and pre-discussion with party involved vironmental assessment AS has many licensed engineers with long ng experience, knowledge and knowhow pose and provide the most effective field and ical survey nning and designing for the civil engineering lity constriction in collaboration with our company. zing the construction contractor for the civil ering, electric power distribution, building, s etc.

Organizing the operation & maintenance contractor for monitoring the operation and maintenance.

Past performance

2012 Ministry of Environment	"Basic information maintenance of environmental assessment for wind power model project"
2012 Kanagawa Prefecture	"Exploration of the potential site for the wind power"
2011-2012 Ministry of Environment	"Study of basic zoning information on renewable energy"
2011-2012 Ministry of Environment	"Technological development concerning the wind farm to minimize and avoid the noise pollution"
2011 Ministry of Environment	"Urgent consultation for renewable energy projects" (preparation for environmental considerations report)
2011 Ministry of Environment	"Study for basic environmental information maintenance methods regarding the wind farm"
2011 Ministry of Environment	"Proactive case study for environmental impact assessment regarding the wind farm"
2010-2011 Ministry of Environment	"Study of potential for the introduction of renewable energy"



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