

# Developing the Power of Wind

## THE CHALLENGE

As the demand for wind energy increases worldwide, wind energy companies are challenged to develop reliable sources of wind power with maximum profitability. To respond to the opportunity, companies must prospect optimal resource areas, enlist community support, acquire the land, and design and develop the site, while balancing the multiple interests of landowners, environmental groups, regulatory agencies, and the public. Project success depends on several key steps: accurate needs and fatal flaw analyses, stakeholder meetings and facilitation, superior site design and development, and ongoing asset maintenance. Critical to each step is rapid access to current geospatial information on the resource area and surrounding region.

## WIND SITING USING GEOSPATIAL DATA

To assist energy firms with successful wind projects, Sewall offers comprehensive wind siting services, including developing innovative web-based portal solutions that give firms the power to access, visualize and manage time-critical geospatial data, related information, and applications through a web browser. Our wind siting services include:

- ❑ Strategic planning & fatal flaw analyses
- ❑ Land appraisal
- ❑ Environmental studies
- ❑ Sewall GeoPower™ portal for web-based access
- ❑ On-line GIS siting tools
- ❑ 3D site modeling & mapping, using web imagery

## THE BENEFITS

An integrated services company, Sewall provides wind energy firms with:

- ❑ One geospatial solution for multiple users
- ❑ One point of web access for time-critical information
- ❑ One point of contact for streamlined service
- ❑ One full-service consultant for lower project cost

*For information on Sewall's integrated solutions for wind energy projects, please contact: Scott Graham, PE, Vice President, at 800 648 4202; Email: [gras@sewall.com](mailto:gras@sewall.com)*



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## INTEGRATED SOLUTIONS FOR SITING WIND PROJECTS

### Strategic Planning & Assessment

- Project needs assessment
- Wind resource area (WRA) identification and selection
- Site and fatal flaw analyses
- Conceptual site design

### Land Appraisal

- Large lot and forestland ownership
- Appraisals/valuations of project sites and transmission line routes
- Negotiations with landowners on easements/ROWs

### Geospatial Data Development

- Aerial photography, GPS surveying, mapping, and digital orthophotography
- Acquisition of existing data on infrastructure, natural and cultural resources
- 3D site modeling & mapping
- Geospatial data conversion and integration with GIS

### GIS Consulting & Web Services

- Web-based GIS development
- Sewall GeoPower Portal implementation
- Application development

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