

## geoAMPS: Leveraging technology to advance wind power

### Participating in AWEA conference

Dan Liggett

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*With new technological capabilities, the global wind energy industry has the ability to add to the growing electric capacity from this clean, renewable resource.*

Market realities, public policy and tax incentives have combined to give a substantial boost to the wind industry. By the end of 2012, new wind capacity in the United States exceeded 60 gigawatts, which the American Association of Wind Energy (AWEA) reports is enough power the equivalent of 14.7 million homes, the number of homes in Colorado, Iowa, Maryland, Michigan, Nevada and Ohio combined. The approximate 45,100 wind turbines in the U.S. provide electricity generation equivalent to 14 nuclear power plants or 52 coal plants.

Another contributing factor to this boom in the wind industry is new technological capabilities. Yogesh Khandelwal, President of Chief Executive Officer of geoAMPS, will discuss these new capabilities at the AWEA Windpower Conference and Exhibition scheduled May 5-8 in Chicago. He will discuss "Leveraging Technology to Advance Wind Power" during the educational poster presentation reception Tuesday, May 7, from 4:30 to 6 p.m.

AWEA reports that these popular presentations attract a large audience each year with a broad scope of information presented by some of the leading researchers and business leaders in the global wind industry. Poster presentations showcase research studies, practical problem-solving efforts and innovative programs in a visual format.

For his presentation, Khandelwal will focus on a major pain point in managing a wind farm – dealing with ongoing payment obligations. Without effective technology, wind companies must complete manual calculations that are labor intensive, with multiple staff members involved each month. Despite this commitment of company resources, payments still can be late or wrong, creating even more problems for the company. Web-based software supported by a centralized database provides an effective solution.

There are many variables in meeting ongoing payments for a wind farm. Lease and royalty payments go out to multiple landowners. The amounts might have to be divided into percentages for the multiple

owners of one parcel. Some payments are adjusted by the Consumer Price Index, others by the Gross Domestic Product Implicit Price. Some payments are adjusted by simple interest, others compounded annually.

Landowners can be individuals, married couples, corporations or trusts. The landowner may change address. Married couples get divorced. Ownership can change, revert to an estate or go into probate upon a landowner's death. Corporations are bought out or close.

To address these many factors, wind companies have resorted to various means with varying degrees of success. Many work from spreadsheets. Some still work from paper. In either case, the information must be input manually through each payment cycle. Many calculations must be done quickly, but the information on spreadsheets can be erroneous or inconsistent. It is complicated and time-consuming to track all of the triggers that determine the timeline for individual payments.

Tight deadlines and manual tweaking of so many adjustments can result in errors or slow the payment process. Missing payments or issuing incorrect amounts mean major headaches for the wind company, and make landowners unhappy.

Fortunately, there is Web-based software that provides a solution to wind companies. This software improves the accuracy and efficiency of meeting payment obligations by providing lease management, automatic payment reminders, payment tracker, royalty calculator, and payment scheduler capabilities. The royalty-payment calculator automates the process of meeting development, construction, landowner compensation and other types of payments, despite the complexities of these calculations and the varied timelines.

This automated, technology-driven answer produces accuracy, consistency, low-time commitment, cost savings, improved compliance and maintaining payment schedules.

In his presentation at the AWEA conference, Khandelwal will explain how, with advancements in software and other technological tools, there is an opportunity for wind organizations to enjoy greater efficiency. By leveraging Web-based software, which supports mobile technology and geographical information system (GIS) mapping, all wind project data can be centralized and all workflows and wind farm-related tasks made more efficient. Existing data can be combined into a collaborative environment, speeding the completion of wind projects and facilitating wind farm operations through the siting, planning, land acquisition, construction and operational phases.

With new technological capabilities, the global wind energy industry has the ability to add to the growing electric capacity from this clean, renewable resource.

*Dan Liggett is Communications and Public Relations Manager of geoAMPS, a technology company located in the Columbus, Ohio, area that specializes in software solutions to manage land rights and infrastructure assets. For more information, visit [www.geoamps.com](http://www.geoamps.com) or call 614-389-4871.*