

Remote Sensing for Wind Power Potential

A Prospector's Handbook



U. S. Department of Energy

Remote Sensing For Wind Power Potential A Prospectors Handbook

John Edward Wade



Remote Sensing For Wind Power Potential A Prospectors Handbook:

Remote Sensing for Wind Power Potential ,1983 Remote sensing can aid in identifying and locating indicators of wind power potential from the terrestrial marine and atmospheric environments i e wind deformed trees white caps and areas of thermal flux It is not considered as a tool for determining wind power potential A wide variety of remotely sensed evidence is described in terms of the scale at which evidence of wind power can be identified and the appropriate remote sensors for finding such evidence Remote sensing can be used for regional area prospecting using small scale imagery The information from such small scale imagery is most often qualitative and if it is transitory examination of a number of images to verify persistence of the feature may be required However this evidence will allow rapid screening of a large area Medium scale imagery provides a better picture of the evidence obtained from small scale imagery At this level it is best to use existing imagery Criteria relating to land use accessibility and proximity of candidate sites to nearby transmission lines can also be effectively evaluated from medium scale imagery Large scale imagery provides the most quantitative evidence of the strength of wind Wind deformed trees can be identified at a large number of sites using only a few hours in locally chartered aircraft A handheld 35mm camera can adequately document any evidence of wind Three case studies that employ remote sensing prospecting techniques are described Based on remotely sensed evidence the wind power potential in three geographically and climatically diverse areas of the United States is estimated and the estimates are compared to actual wind data in those regions In addition the cost of each survey is discussed The results indicate that remote sensing for wind power potential is a quick cost effective and fairly reliable method for screening large areas for wind power potential

Remote Sensing for Wind Power Potential U S. Department of Energy,2002 This report describes the use of remote sensing in wind power prospecting Remote sensing can aid in identifying and locating indicators of wind power potential from the terrestrial marine and atmospheric environments ie wind deformed trees white caps and areas of thermal flux It is not considered as a tool for determining wind power potential A wide variety of remotely sensed evidence is described in terms of the scale at which evidence of wind power can be identified and the appropriate remote sensors for finding such evidence The value of remote sensing to wind power prospecting is the ability to geographically associate a wide variety of wind indicators from the regional to local scale and to quickly pinpoint promising wind power sites Remote sensing can be used for regional area prospecting using small scale imagery The information from such small scale imagery is most often qualitative and if it is transitory examination of a number of images to verify persistence of the feature may be required However this evidence will allow rapid screening of a large area enabling the prospector to quickly select the most promising locations for sub regional investigations Medium scale imagery provides a better picture of the evidence obtained from small scale imagery At this level it is best to use existing imagery Criteria relating to land use accessibility and proximity of candidate sites to nearby transmission lines can also be effectively evaluated from medium scale imagery Large scale

imagery provides the most quantitative evidence of the strength of wind. Wind deformed trees can be identified at a large number of sites using only a few hours in locally chartered aircraft. A handheld 35mm camera can adequately document any evidence of wind. Three case studies that employ remote sensing prospecting techniques are described in this handbook. Based on remotely sensed evidence, the wind power potential in three geographically and climatically diverse areas of the United States is estimated, and the estimates are compared to actual wind data in those regions. In addition, the cost of each survey is discussed. The results indicate that remote sensing for wind power potential is a quick, cost-effective and fairly reliable method for screening large areas for wind power potential. Sites selected as having good wind power potential based on evidence obtained from remote imagery should be instrumented to determine important information such as: How good are the winds? At what height are they good? When are they good? How much turbulence can be expected? Wind Power Potential John Edward Wade, 1983 **Wind Energy for Agriculture** Susan Chapman, 1993 **Wind Energy**, 1989

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In a digitally-driven world where screens reign supreme and instant interaction drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases frequently get unheard. Yet, set within the pages of **Remote Sensing For Wind Power Potential A Prospectors Handbook** a interesting literary prize pulsating with organic emotions, lies a fantastic quest waiting to be undertaken. Composed by a skilled wordsmith, that enchanting opus invites visitors on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the material of every word. Within the emotional depths of the poignant review, we shall embark upon a genuine exploration of the book is key styles, dissect their interesting publishing model, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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