



## Modeling Wind Farm Suitable Site

By Belay, Eyaya

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | selecting sites for wind farm in the study area is a complex process involving not only technical but also physical, economical, social and environmental considerations. This study focuses on mapping wind farm suitability in Adama Woreda. The major data used were topographic map (1:50,000), Landsat image (2005), and GIS data layers such as roads, towns, transmission line, geology, land use and slope. The factors were developed in the GIS and Remote Sensing environment then weighted and overlaid by the principle of pairwise comparison. Once the wind farm suitability map has been completed, sites were evaluated with respect to the factors. The finding of this study shows that there is sufficient area for wind farm establishment in Adama Woreda with the most suitable sites located in the southeastern, northeastern and southern parts. 85% of the most suitable sites are laid on agricultural land which is relatively compatible with wind farm. 38.5 and 21.24 % of most suitable area are laid on recent aphyric basalts and ash flow tuffs respectively which are most suitable and moderately suitable areas from engineering point of view. | Format: Paperback | Language/Sprache: english | 88 pp.



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