

Development and Application of Renewable Energy Map Analysis Program in the Philippines

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Abstract

Accurate renewable energy (RE) data, such as solar, hydro, wind, and biomass resources data are important to assess for the proper sizing and life cycle cost analysis of RE systems technologies. A geoinformatics-based decision support system (DSS) called Renewable Energy Mapping Analysis Program (REMAP) was developed to build a wealth of geo-referenced data and information on RE resources in the country. Geo-referenced databases and thematic RE maps, as major outputs of REMAP showed various indicators on assessment, monitoring and evaluation, and efficiency thrusts that are useful for energy planning and policy options for rationalization of energy development and investment plans of the country. A case study is presented to demonstrate the application of REMAP.

Keywords

affiliated renewable energy center, decision support system, GIS, GPS, renewable energy, REMAP, remote sensing
