Wind and solar resource data sets - DTU Orbit (20/10/2019)

Wind and solar resource data sets
The range of resource data sets spans from static cartography showing the mean annual wind speed or solar irradiance across a region to high temporal and high spatial resolution products that provide detailed information at a potential wind or solar energy facility. These data sets are used to support continental-scale, national, or regional renewable energy development; facilitate prospecting by developers; and enable grid integration studies. This review first provides an introduction to the wind and solar resource data sets, then provides an overview of the common methods used for their creation and validation. A brief history of wind and solar resource data sets is then presented, followed by areas for future research.

For further resources related to this article, please visit the WIREs website.

General information
Publication status: Published
Organisations: Department of Wind Energy, Resource Assessment Modelling, National Renewable Energy Laboratory
Corresponding author: Hodge, B.
Contributors: Clifton, A., Hodge, B., Draxl, C., Badger, J., Habte, A.
Number of pages: 21
Publication date: 2018
Peer-reviewed: Yes

Publication information
Journal: Wiley Interdisciplinary Reviews: Energy and Environment
Volume: 7
Issue number: 2
Article number: e276
ISSN (Print): 2041-8396
Ratings:
BFI (2018): BFI-level 1
Scopus rating (2018): CiteScore 3.77 SJR 0.929 SNIP 1.198
Web of Science (2018): Indexed yes
Original language: English
DOIs: 10.1002/wene.276
Source: FindIt
Source ID: 2393943613
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review