

P28 Comparing turbine height wind WRF geographic configurations for Southern Australia

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In recent years, the Australian Government has conceptualised Renewable Energy Targets as one public sector response to climate change. The University of Queensland is quantifying the wind energy contribution to this initiative on a long term basis. Contributing to an energy economics model, this study statistically compares WRF Southern Australia wind-farm turbine hub height wind speed and direction for model domain spatial resolution and selection of source model geography - 1, 3 and 9 km for USGS, MODIS and STRM terrain and land-use data sets. This knowledge was used to configure WRF for the broader study.