TRC’s atmospheric scientists are a group of experienced meteorologists, five with Certified Consulting Meteorologists (CCM) certifications from the American Meteorological Society who provide a full range of meteorological consulting services to the wind energy industry.

TRC meteorologists have the theoretical knowledge, practical skill, and focus on reliability to deliver high-resolution data sets for any wind resource assessment project in the world using state-of-the-science diagnostic and prognostic meteorological models.

TRC’s team of wind energy consultants perform highly technical wind flow modeling over challenging environments including coastal and offshore locations, and across a range of project scopes from regional to micro-scale studies.

Computational fluid dynamics modeling is performed with cutting-edge modeling systems (e.g. FLUENT). Wind flow through complex terrain is downscaled from well supported numerical weather prediction models (e.g. WRF) using industry standard diagnostic tools (e.g. CALMET).

Safety is a driving passion of TRC’s meteorologists to generate hazardous weather operating window guidance for wind farm managers during installation and maintenance periods.

TRC scientists are committed to quality and perform in-depth meteorological data quality analyses, including independent assessments of monitored meteorological data quality and statistical analysis of wind data for turbine siting studies.
About TRC

A pioneer in groundbreaking scientific and engineering developments since the 1960s, TRC is a national engineering, consulting and construction management firm providing integrated services to the power, oil and gas, environmental and infrastructure markets. We serve a broad range of clients in government and industry, implementing complex projects from initial concept to operations. TRC delivers results that enable clients to achieve success in a complex and changing world.

TRC includes over 4,000 technical professionals and support personnel in more than 120 offices throughout the U.S. Our clients depend on TRC’s multidisciplinary teams to design solutions to their toughest business challenges.

Why TRC?
- Experience from decades of meteorological consulting
- Creativity in combining latest technology with proven methods
- Dedication to delivering superior solutions

Representative Clients

- Washtenaw County Community Wind Development, Michigan
- AES Laurel Mountain Wind Power Project, West Virginia
- TransCanada Kibby Mountain Wind Power Project, Maine
- Harvest II Wind Farm, Michigan
- Cape Wind Energy Project, Massachusetts
- RIWINDS, Rhode Island
- Garden State Offshore Energy Project, New Jersey
- Duke Energy Demonstration Project, North Carolina
- AES Armenia Mountain Wind Energy Project, Pennsylvania
- Smoky Hills Wind Energy Project, Kansas

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