

# LOUIS BOWERS

## Wind Resource Meteorologist and Oceanographer

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🌐 <https://rucool.marine.rutgers.edu/ruwrf-mesoscale-meteorological-model-forecast/>

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## EXPERIENCE

### Senior Meteorologist

#### Avangrid (Iberdrola) Renewables

📅 October 2007 – Ongoing    📍 Radnor, PA

- Led the Wind Resource Analysis for Avangrid's East Coast pipeline of more than 3.5 GW
- Responsible for more than 450 MW of wind projects either operating or under construction
- Significant experience with the use of remote sensing technologies, including LiDAR and SoDAR
- Extensive experience conducting wind resource analysis in complex terrain and heavily forested sites
- Extensive experience siting wind turbines with respect to sound restrictions
- Liaison between the US team and the Iberdrola Global Headquarters Team in Madrid, Spain
- Used highly specialized experience with numerical model data to find greenfield wind and solar opportunities
- Solar Resource Analysis

### Meteorologist

#### Rutgers University

📅 January 2010 – Ongoing    📍 New Brunswick, NJ

- Operated the Rutgers University RUWRF operational numerical weather prediction modeling system
- Provided operational weather forecasts for the Rutgers University Center for Ocean Observing Leadership (RUCOOL)

### Senior Meteorologist / Physical Oceanographer

#### Rutgers University

📅 May 2002 – October 2007    📍 New Brunswick, NJ

- Managed a cooperative education Severe-Storm Forecast Project between Rutgers University and Public Service Electric and Gas
- Designed a coupled numerical weather prediction - electric utility plant damage model
- Conducted a preliminary Offshore Wind Analysis for the State of New Jersey Board of Public Utilities
- Masters Thesis: The Effect of Coastal Upwelling on New Jersey Sea Breeze Dynamics

### Climatologist

#### Office of the New Jersey State Climatologist

📅 September 2000 – May 2001    📍 Piscataway, NJ

- Performed climatological data analysis for New Jersey climate stations
- Provided certified meteorological data

## LIFE PHILOSOPHY

*"Saving the world, one wind turbine at a time."*

## MOST PROUD OF



### Success

Construction of the Amazon Wind Farm US East, the first utility scale wind project in the Southeastern US



### Love

An ever-lasting love and amazement of the ocean and the atmosphere

## STRENGTHS

Wind Energy

Numerical Weather Prediction Model (WRF)

Air-Sea Interaction / Sea Breeze Expert

CFD Modeling / Meteodyn

OpenWind/WindFarmer/WindPro/WAsP

PVSyst

## LANGUAGES

English

Spanish



## EDUCATION

### M.S. in Physical Oceanography

#### Rutgers University

📅 Sept 2002 – Oct 2004

### M.S. Certificate in Renewable Energy

#### University of Colorado at Boulder

📅 June 2012 – December 2013

### B.S. in Meteorology

#### Rutgers University

📅 Sept 1997 – May 2001

## PUBLICATIONS

- Process Driven Improvements to Hurricane Intensity and Storm Surge Forecasts in the Mid-Atlantic Bight, Marine Technology Society
- Effect of Coastal Upwelling on Circulation and Climate in Coastal Regions American Geophysical Union