Block Island Wind Farm

Avian and Bat Monitoring
Project Permitting

Permitting was based, in part, on pre-construction avian and bat use surveys to inform potential risk.

Post-construction monitoring plan developed during permitting and is a condition of USACE & RI CRMC Assent permit.
Pre-Construction Surveys

Surveys included:

- Onshore Sea Watch Avian Surveys
- Onshore Raptor Migration Surveys
- Onshore Beached Bird Survey
- Bat Acoustic Monitoring
- Avian Acoustic Monitoring
- Offshore Boat-Based Avian Survey
- Offshore Aerial High Definition Videography
- Onshore Avian Radar Surveys

Surveys conducted 2009-2011

Evaluated potential impacts to birds and bats
Post-Construction Surveys

Surveys include:

- Bat Acoustic Monitoring on Construction Vessels
- Onshore Beached Bird Survey
- Offshore Boat-Based Avian Survey
- Turbine-mounted Radar/Camera Collision Monitoring
- Turbine-mounted Bat and Avian Acoustic Monitoring
Acoustic Monitoring

Bat acoustic detectors on jack up barges during 2016 installation

Bat and avian acoustic detectors on Turbines 1 and 3 in 2017
Onshore Beached Bird

Monitoring of 3 beach areas on BIWF
Twice/month during years 1 and 3
Offshore Boat-Based Avian

Protocol same as pre-construction

Once/month during years 1 and 3

Results to be compared to pre-construction
Collision Monitoring/
Avian Radar

Multi Sensor wildlife
detection system (MUSE)

Next-generation of
Thermal Animal
Detection System (TADS)
deployed at European
offshore projects

Years 1-5
Collision Monitoring/Avian Radar

Radar data also evaluated for general avian use
Lessons Learned

Deployment
Weather
Platforms of opportunity

Much more to come