

# BOW

## RENEWABLES

AIM FOR A CLEAN TOMORROW

## PERMITTING, ENGINEERING, AND ENVIRONMENTAL SERVICES

The BOW Renewables environmental, permitting and stormwater design team has served as trusted advisors for the evaluation, design, permitting, construction, and deployment of renewable energy projects across the United States. BOW has experience with a wide variety of clients, from investors and developers to contractors and utility companies. BOW offers the experience needed to minimize cost, risk, and successfully develop your solar or wind energy projects.

We offer our clients:

- **Site Evaluations, Planning, and Design** including GIS mapping and site evaluations. Our multi-disciplinary team can handle everything from critical issues analysis, land constraint analysis and species impact analysis to regulatory and permitting agency consultation and community relations.
- **Development and Permitting** includes all aspects of engineering and planning site preparation. Whether it is drainage studies, access road and transportation planning, stormwater and land development permits, or wildlife take permits or conservation plans, BOW Renewables provides the full range of pre-construction support for renewable energy projects.



Our experienced team of ecologists, engineers, and permitting experts work closely with our client teams to ensure the efficient and responsible siting, development and construction of your solar and wind energy projects. From community scale to utility scale solar and wind energy projects, our commitment is to offer our clients a reliable and experienced renewable energy consulting service.

## BOW Renewables Professional Services

### PERMITTING

- Initial site assessment and planning
- National Pollutant Discharge Elimination System (NPDES) Permits
- Stormwater Pollution Prevention Plans (SWPPP)
- Section 404 Nationwide Permits and Section 10 Permits
- Highway Occupancy Permits
- Spill Prevention Control and Counter (SPCC) Plans
- Water Obstruction and Encroachment Permits
- Power Siting Board/PUC Certificates and Permits
- Municipal permit approvals (zoning, land development, right-of-way)
- Public meetings and hearing expert testimony
- Habitat Conservation Plan/Incidental Take Permits, Eagle Take Permits
- Viewshed analysis, photo simulations, shadow flicker analysis
- ASTM Phase 1 Environmental Site Assessments

### ENGINEERING

- Zoning plans and applications
- Erosion and sediment control design and permit plans
- Stormwater hydrology analysis and design
- Site grading and cut/fill analysis
- Transportation route studies
- Site and boundary surveys
- Roadway/intersection and work zone traffic control design
- Construction inspection and compliance assistance

### ENVIRONMENTAL SERVICES

- Plant, wildlife, and habitat surveys (e.g., rare plants, avian surveys, bat surveys)
- Develop taxa or species-specific management strategies (e.g., Bird and Bat Conservation Strategies, Habitat Conservation Plans, Eagle Conservation Plans)
- USFWS Wind Energy Guidelines and Eagle Conservation Plan Guidance surveys and evaluation
- Federal or State natural resource agency coordination; Section 7/10 Consultations
- Solar site pollinator habitat planning, and habitat restoration plans
- Remote/Desktop Wetland identification; wetland presence or absence surveys
- Wetland and waterway boundary delineations
- Design and monitor wetland replacement, restoration, and mitigation sites
- Eagle Take Permits/State and Federal Incidental Take Permits

Contact us at [info@bowrenewables.com](mailto:info@bowrenewables.com) or 312-857-5486 to discuss your solar or wind project.

Main offices in Illinois, Florida, and Pennsylvania

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312.857.5486 • [bowrenewables.com](http://bowrenewables.com) • [info@bowrenewables.com](mailto:info@bowrenewables.com)

## About BOW Renewables

BOW Renewables, in addition to pre-construction services, offers consulting services during all stages of project development, including construction compliance and post-construction monitoring at wind and solar energy sites across the US. As your trusted advisor, we offer project development and evaluation, project management, and experienced oversight of your renewable energy projects.

## MEET THE BOW RENEWABLES TEAM

### Environmental, Permitting, and Engineering

**William (Skip) Schneider** is a Professional Engineer who has been providing engineering services to private and public clients since 1998 for commercial and municipal, development, complex storm water solutions, multi-phased Erosion & Sedimentation control projects, with a recent focus on utility scale solar and wind projects. Mr. Schneider provides engineering expertise to the project team with a broad knowledge of permitting & design requirements at the local, state, and federal levels and is a licensed engineer in PA, MT, NY, CO, NC, VA and NM. Mr. Schneider is a veteran who proudly served in the US Navy. He is the Township Engineer for a municipality in Pennsylvania and serves as a Planning Commission member in his home Township.

**Jason Tourscher** has over 16 years of professional experience providing environmental and permitting services, with over a decade focused solely in the renewable energy sector. His primary responsibilities have been environmental permitting, wetland delineations, threatened/endangered species surveys, and municipal permitting (zoning and site plan/land development approvals) for



solar and wind energy projects throughout the United States. Throughout the PJM, NYISO, MISO and SPP Power Markets, he has managed or assisted with the development of over 5 GW of renewable energy projects.

**Jeff Zirpoli** is a renewable energy project manager and lead ecologist with over a decade focused on wind and solar energy projects across the United States. Jeff specializes in protected natural resources and special-status species permitting, surveys, research, and conservation. He has a demonstrated history of directing wildlife, plant, wetland, and habitat surveys as well as conducting research, management, and conservation at renewable energy development sites. Jeff applies his renewable development, regulatory, and ecological knowledge, and experience to successfully guide projects from siting, construction, through post-construction monitoring.

**Carlyle Meekins** is a biologist with more than 10 years of experience designing, implementing, and managing post-construction wildlife mortality monitoring programs and pre-construction ecological surveys across the United States. He has also conducted avian and bat activity studies and conservation planning, fisheries, herpetology, sensitive species habitat assessments, wetland delineations, and other pre-construction natural resource surveys.

## BOW RENEWABLES MANAGING PARTNERS

**Daniel Bole** is a Lead Project Manager with more than 11 years of experience in solar and geotechnical construction project management. He's managed more than \$200 million in 30+ renewable construction projects of varying sizes and configurations. Daniel offers extensive project management experience in civil construction, geotechnical, and project management in the renewable energy sector.

**Tom Olenick** is an accomplished mechanical engineer within the solar industry. He holds two patents for products that greatly reduce the cost of electrical equipment and are applicable to both large- and small-scale solar PV applications. This experience has led to many cost reductions across a project's life cycle, impacting 5+ GW of projects worldwide.

**Andrew Weber** is a Lead Project Developer with more than 15 years of experience in wind and solar. He has served as lead project manager for more than 100 MW solar installations and developed 700 MW pipeline of wind energy projects with more than 300 MW successfully installed to date.