

# Renewable Energy

## SOLUTIONS & SERVICES

Moore has an experienced team that supports renewable energy development and project operation services. We work collaboratively with our clients to ensure development, permitting and construction are comprehensively addressed, while being able to provide monitoring and other compliance services during project operation.

Renewable energy services our Team coordinates and provides:

- Site Constraints Analysis
- Wetland & Waterway Delineations
- Biological & Natural Resources Review & Field Studies
- Water Resources/Hydraulics & Hydrology Assessment
- Traffic Evaluation Studies
- Cultural Resource Studies & Compliance Reviews
- Environmental Review, Siting & Routing Processes
- Permit Applications & Processes
- Land Surveying
- Civil Engineering & Site Layout
- Construction Management
- Stormwater Management Plans & Compliance
- Environmental Compliance
- Post-Construction Monitoring
- GIS Mapping & Data Management
- Drone Technology

Our environmental due diligence and site assessment services will help identify critical path items. We will comprehensively review project area data (e.g., wetlands, T&E species, native prairie, land use), allowing you to better evaluate site selection and design modifications to avoid and minimize project impacts and help streamline permitting (local, state, federal). This early environmental due diligence also provides information to our clients about necessary site studies, field surveys or other items that may affect the project schedule and budget.

## ABOUT MOORE

Since 1960, Moore Engineering has been dedicated to improving lives by building strong communities. Moore Engineering has advanced the region's water resources and improved the quality of life in dozen of Midwest communities.

Our services include:

- **Environmental**
- **Water Resources**
- **Municipal**
- **Transportation**
- **Water and Wastewater**

Today, Moore Engineering is a 100 percent employee-owned, ESOP company with offices in Minnesota and North Dakota. Our relationships currently extend to more than 100 communities throughout the region. Many of our clients have been with us for decades.





Our team of scientists and engineers work together to complete the necessary studies and assessments needed for site design and permitting and can continue to assist our clients through construction and into post-construction and operation of the facility.

## Highlighted Experience



### **SOLAR DEVELOPMENT PROJECTS: 10 MW TO OVER 200 MW /// Environmental Due Diligence**

Jeff Madejczyk is the lead project manager for an independent solar energy developer (client) for community solar, distributed generation, and large utility scale project segments. Moore has been providing services to this client to support their siting and permitting efforts in multiple locations in the western United States, including Colorado, Texas, and New Mexico. Our team has completed site assessments including aquatic features surveys, wetland delineations, and wildlife & habitat assessments. We have also completed engineering studies in support of site design activities including drainage evaluations, stormwater management design, traffic evaluations, and floodplain modeling and management. Moore has provided ongoing support in developing permitting plans for applications to state agencies. Over the past year, our team has provided these services across 25 separate solar development projects for this client ranging from community solar sites less than 10 MW to utility scale projects over 200 MW covering more than 1,000 acres.



### **PALMER'S CREEK WIND PROJECT /// Environmental Due Diligence & Permitting**

Amy Denz led the field studies, environmental review and permitting process and post-construction monitoring for a 44.6 MW, 18 turbine wind farm in Chippewa County, MN. The wind facility required a connection to a Western Area Power Administration power line, and therefore required National Environmental Policy Act (NEPA) review and compliance by completing an environmental assessment (EA) and associated field studies, such as pre-construction avian and bat surveys, wetland delineation and mitigation plan, and native prairie restoration plan. Additionally, a separate Site Permit (SP) was required through the Minnesota Public Utilities Commission. Amy led the permitting effort and was the primary author for EA and SP, which allowed commercial operation of the facility in December 2018. Conditions of the SP required three years of post-construction avian and bat mortality surveys. This effort was led by Amy to coordinate with the US Fish and Wildlife and MN Department of Natural Resources to ensure the client remains in compliance with their SP.



#### **Amy Denz, Environmental Sector Leader**

**[amy.denz@mooreengineeringinc.com](mailto:amy.denz@mooreengineeringinc.com) | 320.979.0274**

Amy is an experienced leader, who has a proven ability to empower teams and manage complex regulatory processes. Her passion for renewable energy drives her excitement to engage with clients at all stages of their projects and help them achieve success.



#### **Jeff Madejczyk, Senior Project Manager**

**[jeff.madejczyk@mooreengineering.com](mailto:jeff.madejczyk@mooreengineering.com) | 952.239.9464**

Jeff has over 25 years of consulting experience, leading clients through complex and challenging design, permitting, and construction projects, especially within the Energy industry. He prides himself on strong communication and excellent customer service.