

**CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS**

ENERGY SERVICES PRACTICE



SERVICES PROVIDED

Federal, state and local environmental permitting

Transmission / distribution line and pipeline routing and feasibility studies

Ecological surveys (wetlands, waterways and species)

Ecological impact evaluations and mitigation plans

Compliance monitoring & support

DPU and siting board petitions

Acoustic evaluations and noise mitigation design

Air quality modeling and permitting

Aboveground historic & cultural resources inventory

Environmental constraints and permitting analyses

Expert witness testimony

GIS services

Epsilon's Energy Services Practice focuses on strategic environmental consulting across a broad range of land-based energy projects throughout the Northeast including battery energy storage systems, solar, onshore, electric transmission and distribution systems and natural gas infrastructure.

A leading provider of strategic environmental science and permitting services to the energy industry since our founding in 1997, Epsilon's Energy Services Practice offers a consolidated approach to terrestrial energy projects by leveraging expertise from across our core service lines: Ecological Sciences, Coastal Resources, Acoustics, Air Quality, Planning, and Cultural Resources. The Energy Services Practice fully complements Epsilon's industry-leading Offshore Wind Practice, together offering comprehensive environmental coverage for both the off and onshore aspects of these important projects from concept through operation.

Our engineers and scientists combine broad knowledge of the energy industry with decades-long experience navigating changing regulatory requirements on the federal, state and local levels. We leverage this knowledge and experience to advocate for our clients and guide them through the environmental compliance and permitting processes in a cost-effective and schedule-driven manner.

Epsilon's siting, permitting, and compliance support experience includes hundreds of energy-related projects throughout New England and New York. In addition, Epsilon's Acoustics Practice supports energy-based projects on a National scale. Epsilon's ability to provide comprehensive environmental consulting services in a fully-integrated manner directly benefits our Energy clients and helps to ensure successful project outcomes regardless of the size or complexity.

CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS

POWER GENERATION & ENERGY INFRASTRUCTURE SERVICES



Epsilon
ASSOCIATES INC.

SERVICES PROVIDED

Compliance support for existing facilities

Due diligence reviews

Department of Public Utilities and siting board petitions

State siting board licensing

Linear routing studies and permitting for transmission lines and pipelines

Multimedia siting and licensing of new electric generation, including fossil fuel, biofuel, wind and solar

Photo simulations

Our engineers and scientists use their broad industry knowledge and extensive regulatory experience to guide and advocate for our clients.

Epsilon's energy practice consists of a broad spectrum of permitting services for electric generating facilities, liquefied natural gas storage facilities, district heating, electric substations, renewable energy facilities and related infrastructure, including electric transmission lines and natural gas pipelines.

Our engineers and scientists combine broad knowledge of the energy industry with experience navigating changing regulatory requirements, and we use this knowledge and experience to advocate for our clients and guide them through the environmental permitting processes.

Our multimedia siting and licensing support of new power generation facilities includes a range of services from air quality analyses and noise monitoring, to wetland delineation, cultural resources and rare species assessments. In addition to siting, licensing and compliance support, Epsilon also performs due diligence studies for power plant acquisitions. Epsilon prepares project presentations and clear and concise visuals for community meetings and public hearings, and provides expert testimony for adjudicatory proceedings.



CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS

BATTERY ENERGY STORAGE SYSTEMS



SERVICES PROVIDED

Comprehensive regulatory permitting

Compliance monitoring

Ecological impact evaluations

Expert witness testimony

Noise control evaluations

Sound evaluations

Outreach support

Siting, regulatory permitting, and construction of Battery Energy Storage Systems (BESS) can be a uniquely challenging process. Epsilon's environmental and regulatory specialists, acoustics experts, and planners provide experience and leadership, from initial site selection through project permitting, construction, and operation.

Epsilon's consulting scientists and engineers offer federal, state, and local environmental compliance and permitting services for BESS projects, and our experience and multidisciplinary resources help developers execute projects efficiently. Our siting, permitting, and compliance support experience includes hundreds of energy-related projects throughout New England and New York. We have experience in supporting developers' BESS projects with in-house siting, permitting and licensing, GIS and acoustic evaluation services, and we leverage this experience to support our clients' streamlined implementation of utility-scale BESS projects.



CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS

RENEWABLE ENERGY



SERVICES PROVIDED

Air permitting and modeling

Avian studies

Beneficial Use Determination for fuels

Ecological resources

Environmental permitting, siting and due diligence services

Expert testimony

Field investigations for wetlands, rare species and other applications

Sound level analyses

Shadow flicker

Spill Prevention Control & Countermeasure Plans (SPCC)

Transmission line route assessment

Water resources analysis, including gray water reuse

Renewable energy generated from natural sources, such as sunlight, wind, hydro and biomass, continues to grow in importance and need. Epsilon Associates is a leader in the field and provides a full suite of environmental analysis, licensing, permitting and compliance evaluation services for renewable energy developers, utilities, independent power producers, and industrial clients.

Epsilon's team of air quality engineers, meteorologists, acoustic engineers, sustainability planners and other experts have successfully guided many clients through the environmental permitting processes associated with these types of clean energy projects.

In addition, Epsilon is a recognized national leader in sound level studies for the wind energy industry. Epsilon's scientists and engineers use the latest software tools for acoustic studies, and have an in-house GIS department to create graphics and presentations that present and communicate data to regulators and the public in a clear and easily understood manner.



OFFSHORE WIND

Vineyard Wind 1 - Lease Area, OCS-A 0501
Park City Wind - Lease Area, OCS-A 0534
Commonwealth Wind - Lease Area, OCS-A 0534
Vineyard Northeast - Lease Area, OCS-A 0522
Atlantic Shores South - Lease Area, OCS-A 0499
Atlantic Shores North - Lease Area, OCS-A 0549
New York Bight Projects - Confidential

SOLAR

NextEra Blandford Solar Park - Blandford, MA
ConEdison Dartmouth Energy Park PV Site Screening - Dartmouth, MA
ConEdison New Bedford Business Park PV Project - Dartmouth, MA
North Attleboro Electric Department Site Evaluation - North Attleboro, MA
NextEra Energy Resources East Point Solar Project - Schoharie County, NY
NextEra Energy Resources High River Solar Project - Montgomery County, NY
NextEra Energy Resources North Side Solar Project - St. Lawrence County, NY
NextEra Energy Resources Watkins Glen Solar Project - Schuyler County, NY
Flint Mine Solar, LLC Flint - Greene County, NY
Tradewind Energy Atlanta Farms Solar Project - Pickaway County, OH
NextEra Energy Resources Grazing Yak Solar Project - El Paso County, CO
NextEra Energy Resources Point Beach Solar Project - Manitowoc County, WI
NextEra Energy Resources Excelsior Solar Project - Genessee County, NY
EDF Renewables Columbia Solar Project - Herkimer County, NY
AES Brookside Solar Project - Franklin County, NY

WIND - Noise and Shadow Flicker

Apex Clean Energy, Isabella Wind - Isabella County, MI
NextEra Energy Resources, Endeavor I & II Repower - Osceola County, IA
Tradewind Energy (now Enel Green Power), Aurora Wind - Williams County, ND
NextEra Energy Resources, Eight Point Wind - Steuben County, NY

Calpine Wind, Bluestone Wind - Broome County, NY

Apex Clean Energy, Dakota Range Wind - Codrington and Grant Counties, SD

Heritage Sustainable Energy, Big Turtle Wind Farm - Huron County, MI

Iberdrola Renewables, Groton Wind - Groton, NH

NextEra Energy Resources, Horse Hollow Wind Energy Center - Taylor County, TX

Gamesa Energy, Barton Chapel Wind - Jack County, TX

NextEra Energy Resources, Lee/DeKalb Wind Energy Center - Lee and DeKalb Counties, IL

Iberdrola Renewables, Desert Wind - Perquimans and Pasquotank Counties, NC

NextEra Energy Resources, Tuscola Bay Wind Energy Project - Tuscola, Bay, and Saginaw Counties, MI

NextEra Energy Resources, North Sky River - Kern County, CA

Iberdrola Renewables, Blue Creek Wind - Van Wert and Paulding Counties, OH

FPL, St. Lucie Wind Turbine Generation Project - St. Lucie County, FL

NextEra Energy Resources, Montezuma Wind - Solano County, CA

Iberdrola Renewables, Leipsic Wind - Putnam County, OH

BIOMASS

Palmer Renewable Energy (35 MW Biomass) - Springfield, MA

Pioneer Renewable Energy (47 MW Biomass) - Greenfield, MA

North Springfield Sustainable Energy Project (37 MW Biomass) - North Springfield, VT

Veolia - Montpelier VT - CHP Biomass Feasibility - Montpelier, VT

BATTERY STORAGE

Key Capture Energy NY2 and NY11 Battery Storage Facilities - Orange County, NY

Key Capture Energy Battery Storage System - Pomona, NY

Calpine Bluestone Wind - Broome County, NY

Calpine High Bridge Wind - Chenango, NY

Eolian Medway Grid BESS - Medway, MA

CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS

SOLAR POWER



SERVICES PROVIDED

Due diligence

**Historic and cultural resource inventory,
including archaeology**

**Local, state, and federal environmental
permitting**

Permitting constraints analysis

**Preliminary site maps and complex
spatial analyses**

Rare species assessment and surveying

Sound level monitoring and modeling

Site suitability determinations

Transmission line routing

**Wetland resource area delineations,
mitigation plans and evaluations**



Epsilon Associates represents solar energy development owners through the entire environmental permitting process. Our work often begins at project inception, including site due diligence, through licensing, permitting and construction, and extends through project completion and permitting closeout.

Epsilon offers comprehensive environmental services including wetlands and rare species permitting, detailed development constraints analyses, transmission line routing expertise, and sound level monitoring and modeling services.

Epsilon's consulting scientists offer federal, state, and local environmental compliance and permitting services in coordination with our compliance resources, including acoustics, GIS, and credentialed wildlife biologists, ecologists, and wetland scientists.

We specialize in solar and Battery Energy Storage Systems (BESS) acoustics/ noise consulting and permitting services. Using Cadna/A (Computer Aided Noise Abatement) software, Epsilon has conducted over 200 sound level modeling and monitoring studies for renewable energy projects across the United States and Canada, including dozens of solar and BESS developments.

**CONSULTING SCIENTISTS,
PLANNERS & ENGINEERS**

POWER TRANSMISSION & GAS PIPELINE SERVICES



SERVICES PROVIDED

**Energy Facilities Siting Board and
Department of Public Utilities
applications**

**Environmental Inspector Services and
Stormwater Pollution Prevention Plans**

**Environmental Management and
Construction Plans**

**Expert testimony and public hearing
presentations**

GIS mapping

**Local, state and federal environmental
permitting**

New York Article VII applications

Photosimulations

**Routing analysis, site selection and
evaluation of project alternatives**

**Threatened and endangered species
habitat assessments and surveys**

**Wetlands delineation, functions and
values assessments and mitigation plans**

Epsilon has a long and proven track record of successfully permitting electric transmission lines, gas pipelines and related ancillary facilities through local, state and federal siting and environmental permitting processes.

Our work begins at the project inception, continues through licensing, permitting and construction, and extends through project completion and the closing out of permits.

Our experienced staff have cultivated strong working relationships with the regulatory agencies, and we have a deep knowledge of the regulations and understanding of regulatory strategies. In addition to permitting, we provide expert testimony at public hearings and provide support to our clients through public outreach efforts.



CONSULTING SCIENTISTS,
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ARTICLE VII AND 94-C



Epsilon's Principals have four decades of New York State experience with utility-scale power as well as independent power and cogeneration projects. This includes site selection, routing analysis, and a full suite of permitting.



Having supported a number of high-profile energy projects in New York, Epsilon is fully aware of the intricacies posed by Article VII of the New York Public Service Law as well as the 94-C program regulatory policies. We have the knowledge about the requirements needed for energy facilities combined with the skills to navigate the permitting process to ensure a positive and timely outcome. We work closely with the project team, including project developers, attorneys, and engineers to develop regulatory strategies aimed at delivering a smooth and expeditious permitting process.

We understand what it takes to take a project through the Article VII process. Epsilon's talented team of energy experts, wetland scientists, cultural resources experts, and GIS specialists work together to ensure a project is successful.

Having worked on several projects in New York, Epsilon is also familiar with other New York permitting and regulations such as the permitting associated with New York State Environmental Quality Review Act (SEQR) environmental documentation.

RELEVANT PROJECTS INCLUDE:

- Besicorp Empire Development/Niagara Mohawk Power Corporation 345 kV Project
- Noble Environmental Power's 230 kV Transmission Line Project
- Noble Environmental Power's 115 kV Transmission Line Project
- Advanced Power's Cricket Valley 345 kV Transmission Line Project
- Empire Generating/Tennessee Gas Pipeline