Siting New Energy Infrastructure

Issue Brief

New York State Energy Plan 2009

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As new infrastructure needs are identified by utilities, private developers and the State for reliability, economic, environmental, or other public policy purposes, it will be necessary to ensure those needs can be met efficiently and effectively. The siting processes described herein provide the mechanisms by which the approvals required to construct this new energy infrastructure may be obtained from applicable State, local and/or federal governmental entities.

The siting of new energy infrastructure facilities often involves applications for various permits, and other required approvals, from governmental entities with different jurisdictional responsibilities. This Issue Brief provides an overview of the legal framework governing the siting review processes for new infrastructure, including electric transmission and generating facilities, natural gas facilities, and oil facilities. In addition, there is a description and summary of some of the significant siting activity that has taken place within recent years.

The Public Service Commission (PSC) has the primary authority under State law for the siting of electric transmission facilities. Recognizing the importance of new electric transmission facilities and the difficulties in siting them, the State adopted Article VII of the Public Service Law (PSL) in 1970. Article VII authorizes the PSC to issue a single certificate as the only approval required under State law for the construction of major electric transmission facilities. However, depending on the particular aspects of a proposed facility, approvals may also be needed under federal law: for example, a permit issued by the U.S. Army Corps of Engineers (USACE) under the federal Clean Water Act (CWA) for certain activities affecting navigable waters, or a determination by the New York Department of State (DOS) that a facility is consistent with coastal zone policies adopted pursuant to the federal Coastal Zone Management Act of 1972 (CZMA). The New York State Department of Environmental Conservation (DEC) also plays a major role in ensuring compliance with the CWA.

While the opportunity to seek all necessary approvals under State law, in a single forum, is an advantage from the electric transmission developers’ perspective, one potential limitation of the State’s siting statute was the ability of affected communities, particularly those with limited resources, to participate meaningfully in the process. This limitation was addressed through recent amendments to Article VII that provide funding opportunities for intervening parties.

While the State has the primary authority over the siting of electric transmission facilities, the Energy Policy Act of 2005 (EPACT) established, for the first time, a role for the Federal Energy Regulatory Commission (FERC). FERC’s role is secondary - that of backstop - to State permitting, and limited to where the State has not acted within one year, or has approved the line within one year but included onerous conditions, and the facilities are proposed to be located within a National Interest Electric Transmission Corridor (NIETC). Several counties in New York have been designated as part of a NIETC by the U.S. Department of Energy (DOE). Legislation pending in Congress contemplates a further expansion of the federal role over the siting of electric transmission facilities.

Approvals for the construction of most types of electric generation facilities, such as natural gas-fired generators, landfill gas recovery facilities, wind turbines, and solid waste combustors, are within the
jurisdiction of State and/or local agencies. These agencies conduct their reviews and make their findings in accordance with the State Environmental Quality Review Act (SEQRA), which typically involves the preparation of an Environmental Impact Statement. Similar to the siting of electric transmission facilities, approvals may be needed under federal law, and some may be issued by appropriate State agencies, such as air permits issued under the Clean Air Act (CAA) by DEC. Nuclear generating facilities require certain approvals by the U.S. Nuclear Regulatory Commission (NRC), while the siting of most hydroelectric generating facilities falls within the jurisdiction of FERC. However, the State often plays a role in these siting processes, such as undertaking a coastal zone Consistency Review and issuing Water Quality Certifications.¹

Because there is currently no single State forum to consider electric generation siting decisions, a coordinated review is required among various State and local governmental entities. Therefore, developers must undertake several different permitting processes. The establishment of a comprehensive electric generation siting statute would simplify the siting process and help ensure meaningful participation by the public. Such a statute may also help attract capital for new generation infrastructure, including wind generating units.

FERC also maintains jurisdiction over the siting of natural gas pipelines used in interstate commerce. FERC undertakes its review pursuant to the National Environmental Policy Act (NEPA), which is analogous to SEQRA, and oversees the preparation of an Environmental Impact Statement. Notwithstanding FERC’s authority, certain findings may be required of the State, such as a Water Quality Certification or a coastal zone Consistency Certification. Natural gas pipelines operating in intrastate commerce are certified by the PSC under Article VII of the PSL, which authorizes the issuance of a single certificate as the only approval required under State law. However, despite the issuance of a single State certification, other approvals may be needed under federal law, such as a coastal zone Consistency Certification under the CZMA, or a wetlands permit under the CWA.

In addition, FERC is the agency authorized to approve the construction of natural gas storage facilities and liquefied natural gas (LNG) import terminals. However, a coastal zone Consistency Certification is typically required from DOS for LNG projects if they are located in the State’s coastal zone or if they may have reasonably foreseeable effects on the State’s coastal resources.

The construction of wells for extracting oil and natural gas supplies is authorized by DEC. DEC also authorizes the construction of major oil storage facilities, and liquefied petroleum gas pipelines. DEC uses SEQRA process to consider the environmental impacts associated with these facilities and guide its decision making. Where new types of infrastructure are anticipated, such as carbon dioxide (CO₂) pipelines used for carbon capture and sequestration, existing siting processes may require modifications.

¹ Under Section 401(a)(1) of the CWA, FERC may not issue a license for a hydroelectric project unless the state water quality certifying agency has issued a water quality certification for the project or has waived certification.
2 Procedures for Siting New Energy Infrastructure

2.1 Electric Transmission Facilities

The transition to competitive electricity markets has brought with it an increased interest in utilization of the transmission system. Moreover, the federal government has sought to implement policies designed to promote the use and modernization of the transmission system by encouraging the construction of new transmission facilities. It is also likely that the State’s initiative to promote the development of renewable generation resources, such as wind, will require the siting of new transmission facilities in order to deliver the power associated with those resources. As a result, it is anticipated that there will be a significant interest in the coming years in the siting of new transmission facilities.

2.1.1 Public Service Law Article VII

The State’s transmission siting process is contained in PSL Article VII (PSL §§120 et seq., implemented at 16 NYCRR Subpart 85-2 et seq.), which provides the PSC with authority to issue a Certificate of Environmental Compatibility and Public Need (Article VII Certificate) to construct “major” electric transmission facilities, i.e., lines rated 125 kV or more extending more than one mile, or more than 100 kV, but less than 125 kV, extending 10 miles or more. Article VII is designed to be a one-stop siting process that encompasses the necessary State and local approvals within the Article VII Certificate. However, developers must also obtain any necessary federal authorizations, which could include, for example, a USACE permit under §404 of the CWA for certain activities within certain U.S. waterways.

This process is advantageous from the developers’ perspective since it streamlines the siting process. Moreover, the PSC may prevent the application of local laws that are found to be unreasonably restrictive. However, a potential disadvantage of Article VII was the ability of the public to participate meaningfully in the siting process, given a lack of expertise and/or resources. This situation was addressed through recent amendments to Article VII that require applicants to provide funds that may be used by intervening parties for expert witnesses, consultants, and administrative and legal fees.

Developers seeking to construct electric transmission facilities must also work in concert with the interconnection process administered by the New York Independent System Operator, Inc. (NYISO). Although the NYISO’s interconnection process is separate from the Article VII siting review, there are certain milestones in the NYISO’s interconnection process that may place timing constraints on the siting of transmission facilities. In particular, the PSC’s regulations (16 NYCRR §88.4(a)(4)) currently require an applicant to have completed a System Reliability Impact Study required under the NYISO’s interconnection approval process. The NYISO’s interconnection process seeks to foster accurate and efficient allocation of the costs of facilities needed to reliability interconnect new resources and to avoid

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2 Article VII of the PSL does not apply to transmission lines located wholly underground in a city with a population in excess of 125,000, or primary transmission lines approved by FERC in connection with a hydroelectric facility. The PSC may also determine that Article VII does not apply to the replacement of existing facilities with like facilities.
the dedication of resources to study projects that are not ready to move forward. As such, the interconnection process is a critical path item for developers under Article VII.

The NYISO has indicated that its entire interconnection process may take anywhere from 27 to 52 months, with most projects taking between 36 and 38 months. Given the significant amount of time involved in the interconnection process, the NYISO has identified various reasons for the length of the process and proposed solutions to expedite this process. Specifically, the NYISO has proposed: (1) clarifying the Interconnection Request form to streamline the process of obtaining required data from developers, (2) modifying base case requirements for Interconnection Feasibility Studies and System Reliability Impact Studies to allow for the increased use of off-the-shelf base cases, (3) eliminating potentially unnecessary analyses, and (4) establishing clear metrics for identifying and removing speculative projects. The NYISO is currently working with its stakeholders to address these proposals and to identify additional modifications that will further improve the interconnection study process.

The improvement of the interconnection process is also critical for the siting of electric generating facilities, such as wind turbines. Of the 120 interconnection requests that the NYISO received between 2005 and 2007, 75 of those, or 62.5 percent, were for wind generation projects. The NYISO is updating a study of the ability of the transmission system to support wind generation, which should assist wind developers in more efficiently siting their projects. The siting of generating facilities is addressed below.

**Overview of the Process**

Prior to an Article VII application being filed, the PSC encourages applicants to voluntarily communicate with the public and Staff of the Department of Public Service. Often, public information meetings are held, at which the public is informed of the applicant’s proposals, the Article VII process is explained, general questions are answered, and input from the public is received. The PSC also encourages applicants to communicate with the public during all subsequent phases of the Article VII process.

After a complete application is submitted, a Prehearing Conference is held before an Administrative Law Judge (ALJ) to discuss procedural matters, set a schedule, and often times define issues to be explored in the hearings. After an opportunity to review the application and conduct discovery, Evidentiary Hearings are held, at which testimony and evidence is presented. Subsequently, the ALJ receives briefs from parties in support of their positions, and a Recommended Decision may be issued proposing the disposition of the case to the PSC. If a Recommended Decision is issued, parties may dispute the ALJ’s analysis and recommendations in Briefs on Exceptions, which are followed by an opportunity to submit replies.5

Ultimately, the PSC considers the entire record, including public input received throughout the proceeding, and makes a final determination. If the PSC approves a facility, it may issue an Article VII Certificate, subject to conditions the PSC deems appropriate. However, the PSC must first find and determine:

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4 Applications pursuant to Article VII are exempt from SEQRA under ECL §8-0111(5)(b).

5 As an alternative to a contested proceeding, parties may resolve their concerns and issues through stipulations and settlements. Parties entering into settlements typically prepare written statements in support of any settlements. This approach will often expedite the siting process.
the basis of the need for the facility.

- the nature of the probable environmental impact.

- that the facility represents the minimum adverse environmental impact, considering various alternatives and other pertinent considerations.

- what part, if any, of the line shall be located underground.

- that such facility conforms to a long-range plan for expansion of the electric power grid of the electric systems serving this State and interconnected utility systems, which will serve the interests of electric system economy and reliability.

- that the location of the facility conforms to applicable State and local laws and regulations.\(^6\)

- that the facility will serve the public interest, convenience, and necessity.

In addition to the Article VII Certificate, other major approvals may include a Water Quality Certification by the State pursuant to §401 of the CWA where construction contemplates discharges into navigable waters, a permit from the USACE under §404 of the CWA, and a coastal zone Consistency Certification from DOS pursuant to the CZMA.

**Siting Activity**

The PSC has reviewed and certified various electric transmission facilities under Article VII within the last few years.\(^7\) For example, on January 23, 2004, the PSC authorized Neptune Regional Transmission System LLC (Neptune) to construct and operate the New York portion of a 600 MW (500 kV) high-voltage direct-current submarine/underground electric transmission cable extending from Sayreville, New Jersey to the Long Island Power Authority's (LIPA) substation on Newbridge Road in Hempstead, New York. The PSC’s approval also included a Water Quality Certification under the CWA, while Neptune also sought a permit from the USACE. The Neptune project was placed in service on June 28, 2007.

A recent Article VII siting proceeding involved the application of New York Regional Interconnection (NYRI) to construct a 400 kV DC transmission line, with a rated power flow of 1,200 MW, extending approximately 190 miles from Marcy, New York to New Windsor, New York. Public and private stakeholders along the proposed route raised concerns with the application. While these concerns were being pursued through evidentiary hearings, NYRI notified the PSC that it was withdrawing its petition for an Article VII Certificate. The withdrawal followed FERC’s denial of NYRI’s rehearing petition with respect to the NYISO’s study processes.\(^8\)

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\(^6\) The PSC may refuse to apply any local ordinance, law, resolution or other action or any regulation issued thereunder or any local standard or requirement which would be otherwise applicable if it finds that as applied to the proposed facility such is unreasonably restrictive in view of the existing technology, or of factors of cost or economics, or of the needs of consumers whether located inside or outside of such municipality.

\(^7\) A summary table of recent Article VII projects is maintained on the PSC’s website. *DPS Article VII Projects*. 2008. 
http://www.dps.state.ny.us/articlevii_table_electric.pdf

2.1.2 Federal Power Act §216

EPACT amended the Federal Power Act (FPA) by providing FERC with authority over the construction or modification of electric transmission facilities under certain conditions. In particular, to issue a permit, FERC must find that the proposed project:

- is eligible for a construction permit issued by FERC.
- is located in a National Corridor designated by DOE.
- will be used in interstate commerce.
- is in the public interest.
- will significantly reduce transmission congestion and protect and benefit consumers.
- is consistent with sound national energy policy and will enhance energy independence.
- will maximize the use of existing towers or structures, to the extent reasonably and economically possible.9

Eligibility for Permitting

The first condition noted above for FERC to issue a siting permit is that a project must be eligible for a construction permit issued by FERC. Eligibility for construction permitting from FERC may apply where a state, such as New York, has siting authority and has “withheld approval for more than one year; or conditioned its approval in such a manner that the project will not significantly reduce transmission congestion or is not economically feasible.”10 The Fourth Circuit Court of Appeals recently determined in *Piedmont Env. Council v. FERC*11 that a denial of a permit does not equate to withholding approval.

National Corridors

The second condition for FERC to issue a siting permit is that the facility is located in a National Corridor designated by DOE. In order to determine the appropriate designation of National Corridors, EPACT requires the Secretary of Energy to issue a study of transmission congestion and constraints. On August 8, 2006, DOE completed its first study.12 The 2006 Congestion Study identified constrained transmission paths in the Atlantic coastal area from metropolitan New York southward through northern Virginia.

EPACT also provided that the Secretary of Energy may, based on the congestion study, designate “any geographic area experiencing electric energy transmission capacity constraints or congestion that

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9 16 U.S.C. § 824p(b). It should be noted that the required findings for FERC approval are less protective of the environment than required under State law. While no counterpart exists for FERC under either the FPA or NEPA, PSL Article VII requires the PSC to find that a facility represents the minimum adverse environmental impact.

10 16 U.S.C. § 824p(b)(1)(C). The one year time frame is determined from the date an application is filed or after the designation of the relevant NIETC, whichever is later.

11 558 F.3d 304 (4th Cir. 2009).

adversely affects consumers” as a NIETC.\textsuperscript{13} Based upon the 2006 Congestion Study, comments thereon, and considerations including economics, reliability, fuel diversity, national energy policy, and national security, the Secretary of Energy designated 47 out of the 62 counties within New York as a NIETC.\textsuperscript{14} These designations were effective October 5, 2007, and will remain in effect until October 7, 2019, unless DOE rescinds or renews the designation. Currently, there are legal challenges pending to DOE’s designation of NIETCs within the State.\textsuperscript{15}

The national congestion study is required to be updated every three years. DOE has completed an updated 2009 Congestion Study, which is currently awaiting release.

\textit{Overview of FERC’s Siting Process}

FERC has issued regulations, contained at 18 C.F.R. Part 50 et seq., governing the process it will follow when reviewing applications. In general, the process consists of a mandatory pre-application phase, followed by the application, public review and comments, preparation of an Environmental Impact Statement (EIS) under NEPA, and permitting.

Prior to an applicant, or project sponsor, requesting the initiation of a pre-filing process, it is required to meet with FERC staff to explain the proposal. These meetings provide the opportunity for FERC staff to offer suggestions and for the project sponsor to further define its proposed project. Once there is sufficient project definition, the sponsor/applicant submits a request to initiate the pre-filing process. If the request is approved, FERC will issue a notice informing the public of the initiation of the pre-filing process. As part of the pre-filing process, an applicant is required to implement a Project Participation Plan that identifies specific tools and actions to facilitate stakeholder communication and dissemination of public information. During the pre-filing process, FERC staff will review the applicant’s proposal and assist the applicant in the preparation of a complete application.

An application may be filed only after FERC has determined that all necessary information gathering is complete. After the application is filed, FERC staff will conduct a comprehensive project review. A Notice of Intent to prepare an Environmental Assessment (EA) or an EIS will be issued for most major proposals. The Notice of Intent seeks comments from interested parties on the scope of the environmental document.

After the comment period, FERC staff will begin to prepare either an Environmental Assessment or Draft EIS (DEIS) outlining its findings and recommendations. For major proposals, further comments are sought and public meetings may be conducted. These comments are considered and addressed in the

\textsuperscript{13} 16 U.S.C. §824p(a)(2). DOE defines transmission congestion to occur when actual or scheduled flows of electricity across a line or piece of equipment are restricted below desired levels—either by the physical or electrical capacity of the line, or by operational restrictions created and enforced to protect the security and reliability of the grid. The term “transmission constraint” may refer either to a piece of equipment that limits electricity flows in physical terms, or to an operational limit imposed to protect reliability.


\textsuperscript{15} The Wilderness Society v. U.S. Dept of Energy, No. 08-71074 (9th Cir) (challenging DOE’s designation of NIETCs on several bases).
Final EIS (FEIS). After the issuance of an FEIS, FERC will act on the request and either grant or deny the construction permit. FERC must act within one year from the date the application is filed with the Commission.

Permits issued by FERC provide the power of eminent domain, if needed, to obtain the necessary property rights a project developer cannot otherwise obtain. However, a FERC permit does not absolve the applicant from compliance with other federal laws, including obtaining authorizations from other agencies implementing applicable federal environmental laws. For example, a project may also be subject to a coastal zone Consistency Review.

**State Compacts**

EPACT (16 U.S.C. 824p(i)(4)) specifically allows states to preserve their permitting authority, and to avoid being preempted by FERC by creating interstate compacts. In particular, three or more contiguous states may enter into a compact, subject to approval by Congress, which establishes a regional transmission siting agency to carry out the electric transmission siting responsibilities of the member states. If such a compact were established, FERC would lack authority to issue a transmission permit within any of the member states, unless those members were in disagreement and the Secretary found that the conditions for eligibility for permitting were met.

While this provision of EPACT appears to present a viable alternative to avoiding FERC preemption of state siting decisions, there are several potential drawbacks that would need to be carefully considered. Perhaps most importantly, all of the member states would need to be in agreement to avoid federal preemption. As a result, New York’s valid objections to a particular transmission line may still result in preemption by FERC if another member state supports the same line for parochial interests. In the absence of an interstate compact, New York may deny an application based on those objections, and could not be preempted by FERC, so long as the State acts in a timely manner.16

As noted above, the balance of federal-state jurisdiction over transmission siting is in flux, as FERC has sought broader siting authority in appealing the Fourth Circuit’s decision in *Piedmont Environmental Council v. FERC*, and recent legislation introduced in Congress contemplates an expanded federal role over the siting of electric transmission facilities. These events may require revisiting the usefulness of an interstate compact to the State.

### 2.2 Electric Generating Facilities

The transition to competitive markets has also resulted in increased interest in the siting of new electric generating facilities, as independent generation owners have sought to develop the resources necessary to compete in the marketplace. Furthermore, the State has initiated efforts, namely the Renewable Portfolio Standard, to obtain the types of generation resources that the marketplace may not otherwise support. As these efforts take shape, existing generating facilities are retired, and new load requirements are identified, the siting of generating facilities will take center stage.

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16 In *Piedmont Environmental Council v. FERC*, 558 F.3d 304 (4th Cir. 2009), the Fourth Circuit Court of Appeals held that FERC may not preempt a state’s denial of a siting application where the state acts within the one year time period.
In general, the location, type and size of a facility will determine the approvals and permits that are necessary to site a particular generating facility. The siting process will often vary depending on the proposed fuel source that will be used to generate electricity. The primary fuel sources are fossil fuels, such as coal, petroleum, and natural gas, renewables, waste-to-energy, and nuclear.\(^{17}\)

Before a governmental entity may approve an electric generating facility, it will almost always need to undertake an environmental review and analysis of the proposed project.\(^{18}\) For State and local agencies, the applicable environmental statute is currently SEQRA. As discussed below, certain generation facilities greater than 80 MW were previously reviewed under Article X of the PSL, which expired at the beginning of 2003. For federal agencies, a similar environmental review is performed under NEPA, which is a counterpart of SEQRA. These siting processes are described below.

### 2.2.1 Fossil Fuels, Renewables, Waste-to-Energy, Nuclear

**SEQRA**

The purpose of SEQRA, codified in Article 8 of the Environmental Conservation Law (ECL), and its implementing regulations (6 NYCRR Part 617 and 16 NYCRR Part 7), is to incorporate consideration of environmental factors into the existing planning, review and decision making processes of state, regional and local government agencies at the earliest possible time. SEQRA applies to all State or local government agencies, including districts, special boards and authorities, whenever they must approve or fund a privately or publicly sponsored “action.”\(^{19}\) It also applies whenever an agency directly undertakes an action.

To accomplish the goals of SEQRA, agencies must determine whether the actions they are requested to approve may have a significant impact on the environment. If it is determined that an action may have a significant adverse impact, an EIS must be prepared by the Lead Agency or the applicant. SEQRA requires the sponsoring or approving governmental body to identify and mitigate the significant environmental impacts of the activity it is proposing or permitting.\(^{20}\)

**Overview of the Process**

SEQRA process typically begins with the submission of an Environmental Assessment Form by a project sponsor and the designation of a lead agency for purposes of conducting an environmental review under SEQRA.\(^{21}\) If the Lead Agency determines that an action may have a potentially significant adverse

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\(^{17}\) Renewables may include, among other sources, hydroelectric, biomass, landfill gas, agriculture byproducts, geothermal, solar, photovoltaic, and wind. There has been considerable debate regarding whether waste-to-energy facilities should be included in this category. There have been no new coal facilities that have been sited within the State since 1991, and petroleum is generally used as a secondary, or back up fuel, in dual-fuel generating units.

\(^{18}\) As discussed below, an EIS would not be required under the SEQRA if an agency determines that an electric generating facility would not have a potentially significant adverse impact on the environment.

\(^{19}\) The types of local actions that trigger the need to comply with the SEQRA are commonly related to local site plan review, zoning changes/variances, or special use permits. Examples of State actions triggering the SEQRA include the issuance of a Water Quality Certification under the CWA and air emissions permits under the CAA.

\(^{20}\) The SEQRA process uses the EIS to examine ways to avoid or reduce adverse environmental impacts related to a proposed action. This includes an analysis of all reasonable alternatives to the action. The SEQRA decision making process encourages communication among government agencies, project sponsors and the general public.

\(^{21}\) Upon receipt of an Environmental Assessment Form, an agency may choose to coordinate its SEQRA review with other State or local agencies having jurisdiction over the project.
impact on the environment, an EIS is prepared. The Lead Agency, as well as each involved agency that may issue other necessary approvals, must prepare its own written Findings Statement after the FEIS has been filed, but before the agency makes a final decision. SEQRA Findings Statement of each agency must certify that the requirements of SEQRA have been met, and:

- “consider the relevant environmental impacts, facts and conclusions disclosed in the Final EIS.”
- “weigh and balance relevant environmental impacts with relevant social, economic, and other considerations.”
- “provide [the] rationale for the agency’s decision.”
- “certify that the requirements of [6 NYCRR Part 617] have been met.”
- “certify that consistent with social, economic and other essential considerations from among the reasonable alternatives available, the action is one that avoids or minimizes adverse environmental impacts to the maximum extent practicable, and that adverse environmental impacts will be avoided or minimized to the maximum extent practicable by incorporating as conditions to the decision those mitigative measures identified as practicable.”

Once the findings are adopted, SEQRA process is completed, and the Lead Agency and involved agencies can begin to approve, approve with conditions, or disapprove the proposed project. No agency involved in the overall action may make a final decision until SEQRA process is completed. It is important to recognize that each involved agency must make its own SEQRA findings, and that one agency may reach a different conclusion than another agency based on the same FEIS. A project developer may seek judicial review of an agency’s determination.

**Siting Activity**

SEQRA has been used to review various proposals to construct electric generation facilities. A recent example of where a local action triggered a SEQRA review was the application of Marble River, LLC for special use permits to construct a 229 MW wind generating project within the Towns of Clinton and Ellenburgh. The Town Boards acted as Co-Lead Agencies for purposes of undertaking SEQRA review, and based on the Environmental Assessment Form submitted by Marble River, determined that the project could have a significant impact on the environment. Therefore, a Positive Declaration of Environmental Significance was issued, requiring the preparation of a DEIS. In response to comments on the DEIS, a Supplemental DEIS was prepared. Following public hearings on the Supplemental DEIS, an FEIS was circulated to the involved and interested agencies, as well as to the public. On April 21, 2008, the Town Boards issued a positive Findings Statement, and issued special use permits for the project.

SEQRA was similarly used in reviewing the Sheldon Energy LLC 112.5 MW wind generating project in Wyoming County, the Noble Ellenburgh Windpark LLC wind generating project in Clinton County, and the Jordanville Wind LLC 150 MW wind generating project in Herkimer County. The Jordanville Wind project presented an example of where an involved State agency reached a different conclusion than the

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22 Applicants who seek project approval or funding may be responsible for preparing an EIS. After a DEIS is prepared and comments have been considered, a FEIS is prepared.

23 6 NYCRR §617.11(c) and (d). A positive Findings Statement indicates that the project or action is approvable after consideration of the FEIS and demonstrates that the action chosen is the one that avoids or minimizes adverse environmental impacts to the maximum extent practicable. If the action is not approvable, a negative Findings Statement is prepared, documenting the reasons for the denial. Agencies are required to balance the environmental impacts with social and economic factors when deciding to approve or undertake an action. The Findings Statement of each agency must be filed with all other involved agencies and the applicant at the time they are adopted.
local Lead Agency. In that case, the Town Board of Warren, acting as Lead Agency, approved the construction of a 136 MW project, consisting of 68 turbines sized 400 feet high. However, the PSC, in making its Findings Statement in association with the issuance of a Certificate of Public Convenience and Necessity under PSL §68, determined that the size of the project must be reduced to 49 turbines (a reduction to 98 MW) in order to minimize adverse visual impacts on an historic district, as required under Parks, Recreation and Historic Preservation Law §14.09. Various other wind projects have undergone the siting process and have been constructed. As of February 2009, approximately 1,286 MW of wind generation had been placed in-service throughout the State, while 2,472 MW had been proposed.

SEQRA was also used to review a 350 MW natural gas-fired generating facility in the Town of Brookhaven, Suffolk County (referred to at the Caithness Project). There, the Long Island Power Authority acted as Lead Agency and prepared an EIS, which the Town of Brookhaven relied upon in issuing the necessary local building and other permits to allow construction of the project. Several legal challenges were brought alleging that LIPA failed to comply with SEQRA and that the Town of Brookhaven impermissibly issued permits, although those arguments were ultimately rejected. A related proceeding was also undertaken to site a natural gas pipeline, which was reviewed by FERC under NEPA. The Caithness Project commenced commercial operation in August 2009. Furthermore, SEQRA process was recently completed, and permits were issued, with regard to U.S. Power Generating Company's proposal to add a 100 to 150 MW facility in the Sunset Park area of Brooklyn.

In addition, SEQRA process is currently being utilized to review two proposed gas-fired generation facilities. One of those projects involves NRG Energy, Inc., which has proposed a 1,040 MW project located in the Astoria section of Queens County to replace its existing 600 MW peaking facility, where DEC is acting as Lead Agency. The other project was proposed by Competitive Power Ventures to add a 630 MW facility in the Town of Waywayanda, Orange County, where the Town of Waywayanda Planning Board is acting as Lead Agency.

SEQRA process has also been applied to the review of proposed municipal waste combustors, commonly referred to as waste-to-energy facilities. Ten such facilities currently operate in the State. The most recent permit for a new municipal waste combustor facility was issued by DEC in 1995, for the Onondaga County Resource Recovery facility. In 2007, these facilities processed approximately four million tons of solid waste and produced about two million MWh of electricity.

The next generation of solid waste combustors will likely use advanced thermal, biological, or chemical processes to convert waste into syn-gas (synthesis gas), which can be used to produce electricity. Potential projects on the horizon include the Taylor Gasification facility in Montgomery County, and the Casella thermal-chemical dissociation and catalytic reactor in Ontario County. The Masada project in Middletown, which proposed to convert mixed waste to ethanol, was permitted but never constructed.

The 20 landfill gas-to-energy facilities in New York accounted for approximately 0.4 million MWh of electricity produced in 2007. Four landfills are in advanced planning and/or construction of landfill gas recovery facilities, while several others may be candidates for gas-to-energy facilities. Several developers of landfill gas-to-energy facilities have indicated that the interconnection process is on the critical path for their projects, often delaying development by a year, or more. According to DEC, the interconnection costs have varied widely for such facilities, and have cost as much as $3 million, or 25 percent, for a $12 million project.
As applicants seek approval of new electric generation facilities under SEQRA, they should be mindful of policy changes incorporated within the SEQRA process. In particular, DEC has issued a Guide for Assessing Energy Use and Greenhouse Gas Emissions in an Environmental Impact Statement, which provides policy guidance on the methods and boundaries for the assessment of energy use, greenhouse gas emissions, and mitigation measures for an EIS.24

**Other Required Approvals**

A project developer will typically need to obtain various approvals from separate agencies under SEQRA. One such approval is a Certificate of Public Convenience and Necessity (Certificate) under PSL §68, which authorizes the PSC to grant a certification that the construction of electric plant is necessary and convenient for the public service. However, a Certificate is not required in all instances where a developer seeks to site an electric generating facility. In general, a developer will be required to obtain a Certificate where they seek to construct an electric generating facility sized 80 MW or greater and have not previously received a Certificate, or where they have, but seek to construct additional electric plant under a different corporate structure.

Other major approvals that are often triggered in the siting of electric generating facilities are Water Quality Certifications, State Pollutant Discharge Elimination Systems permits and permits to discharge dredged and fill materials under the CWA,25 air emissions permits under the CAA, review by the State Historic Preservation Office under §106 of the National Historic Preservation Act26 or under §14.09 of the New York State Historic Preservation Act,27 or a coastal zone Consistency Certification under the CZMA or Article 42 of the Executive Law. These reviews and permits may significantly impact project implementation schedules.

The CZMA provides that projects and activities which are within the coastal zone, or outside the coastal zone and affect any land or water use or natural resource of the coastal zone, and are directly undertaken, authorized, or financially assisted by federal agencies, shall be carried out in a manner which is consistent with the enforceable policies of approved state coastal management programs. In New York, the enforceable coastal policies are those in the New York Coastal Management Program (CMP), approved Local Waterfront Revitalization Programs (LWRP), regional coastal management programs such as the

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25 Section 401 of the CWA covers Water Quality Certifications while Section 404 of the CWA regulates the discharge of dredged, excavated, or fill material in wetlands, streams, rivers, and other U.S. waters. The USACE is the federal agency authorized to issue Section 404 Permits for certain activities conducted in wetlands or other U.S. waters.

26 The National Historic Preservation Act of 1966 (16 U.S.C. 470) created the National Register of Historic Places and established the State Historic Preservation Office to administer the national program at the state level. Any project that involves federal funds, licenses or permits is reviewed in accordance with Section 106, which establishes procedures to be followed by federal agencies whose actions may directly or indirectly have an effect on historic properties and directs those agencies to consult with the State Historic Preservation Office to assess those effects. Therefore, any approvals/permits/funding that are given by a federal agency must also be reviewed by the State Historic Preservation Office.

27 The New York State Historic Preservation Act of 1980 was established as a counterpart to the National Historic Preservation Act. The act created the New York State Register of Historic Places and requires state agencies to consult with the State Historic Preservation Office if it appears that any projects being planned may or will cause any change, beneficial or adverse, in the quality of any historic, architectural, archeological or cultural property that is listed on the State or National Registers of Historic Places, or that is determined to be eligible for listing on the State Register. State agencies are required, to the fullest extent practicable, consistent with other provisions of the law, to avoid or mitigate adverse impacts to such properties, to explore all feasible and prudent alternatives and to give due consideration to feasible and prudent plans that would avoid or mitigate adverse impacts to such property.
Long Island Sound Coastal Management Program (LISCMP), or other special area management plans that have been incorporated into New York’s approved CMP.

Likewise, the State Waterfront Revitalization of Coastal Areas and Inland Waterways Act (Article 42, Executive Law) includes provisions to assure consistency of State actions with the policies of the CMP, regional coastal management programs, special area management plans, and with approved LWRPs. At the local government level, cities, towns, or villages with approved LWRPs must enact similar consistency provisions applicable to their decision making. These requirements apply to municipal agency decision making, such as zoning changes, subdivisions, site plans, special use permits, municipal construction projects, and funding activities.

New York’s requirements to assure that actions of State agencies are consistent with policies for the State’s coastal areas and inland waterways are contained in Article 42 of the State Executive Law, DOS regulations in 19 NYCRR Part 600, and SEQRA regulations in 6 NYCRR Part 617. State agency actions are required to be consistent with State coastal policies in 19 NYCRR Part 600.5, the CMP, the LISCMP, and any State-approved LWRPs. State agencies are also required to follow the federal consistency requirements if they require federal approval of their activity or if the activity involves federal funding. State agency actions that are not consistent with State coastal policies or with an approved LWRP are not to be undertaken.

When a State agency is acting as the Lead Agency, or as an involved agency, for actions involving an EIS pursuant to SEQRA, the EIS must include an identification of applicable coastal policies and an analysis of the action’s consistency with those policies. Whether or not an EIS is prepared, a State agency is not authorized to make a final decision regarding an action unless and until the agency has made a written finding that its action is consistent with State coastal policies in 9 NYCRR Part 600 or an approved LWRP.

DOS is responsible for reviewing projects requiring federal authorizations for their consistency with coastal policies. Federal consistency regulations require DOS to render a consistency decision within six months from the initiation of its review of a project. It is important for applicants to consult with the DOS and other involved governmental entities as early as possible in project development, to avoid any unexpected inconsistency determinations at a late stage of the process. This early consultation is designed to avoid costly delays or revisions to projects that have been well advanced without full consideration of coastal effects.

The CZMA requires applicants to certify to federal agencies that their proposed activities will comply with, and be undertaken in a manner consistent with, a State’s CMP. DOS may concur with a consistency certification, object to a certification, or propose modifications to make a project consistent. Objections are often accompanied by suggested alternatives that are consistent with coastal policies. If DOS objects to the project, the involved federal agency cannot issue the required authorization.

DOS has conducted numerous consistency reviews for energy projects affecting New York’s coastal resources. Among these are the Neptune cable, Iroquois Eastchester Extension, Islander East Pipeline,

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28 The applicant must submit a Federal Consistency Assessment Form (FCAF) that provides a Consistency Determination. The State will perform a Consistency Review, and if found to be consistent with the enforceable policies and purposes of the State’s CMP, will issue a Consistency Certification. Where an LWRP or regional management program is in effect, the agencies’ projects and activities must be consistent with the local program.
Millennium Pipeline and Broadwater LNG project. In Neptune, Eastchester, and Islander East, DOS determined the projects were consistent with coastal policies; while in Millennium Pipeline and Broadwater, the projects, as proposed, were determined to be inconsistent with New York’s coastal zone management plan. DOS objected to both projects, and the sponsors appealed those decisions to the U.S. Secretary of Commerce. DOS was upheld in the Millennium project, and the project sponsors subsequently filed an amended pipeline route with FERC that did not include the initial river crossing that prompted the inconsistency finding. The amended Millennium project was certified by FERC, and has been constructed and placed in-service. DOS was also upheld by the Secretary of Commerce on the Broadwater project.

It is anticipated that several project developers will be advancing proposals to site wind generation facilities located offshore in the Great Lakes and/or the Atlantic Ocean. Unlike proposals located onshore and outside of the coastal zone, these offshore projects will be subject to Consistency Review by DOS, so long as they are located within coastal zones.

**PSL Article X (Expired)**

Prior to the expiration of PSL Article X on January 1, 2003, the siting of “major” electric generating facilities, i.e., facilities sized 80 MW or larger, was handled by a multi-agency Siting Board that included public representatives. Article X, contained in PSL §§160-172, was enacted in 1992 to consider, within a single forum, various issues with respect to the siting of such facilities that would otherwise fall under the jurisdiction of multiple state and local agencies. The Siting Board was authorized to permit the construction of a major generating facility by issuing a Certificate of Environmental Compatibility and Public Need (Article X Certificate). In conjunction with the Article X Certificate, DEC conducted a separate review process on applications for permits for the emission of air and water pollutants. Similar to SEQRA, approval of a facility under Article X did not confer the right of eminent domain upon the developer.

**Overview of the Process**

In general, the Article X siting process involved a mandatory pre-application phase designed to involve the public and obtain agreement on appropriate studies to support an application. This was followed by: the filing of an application; public hearings open to all interested parties before a presiding and associate examiner; the issuance of a recommended decision by the examiners after the evidence was presented and cross-examined; and an opportunity to raise exceptions and replies to the recommended decision before the Siting Board, culminating in a final determination.

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29 See the Regional Collaboration Issue Brief for a discussion of initiatives addressing the viability of offshore wind facilities.

30 The coastal zone extends three miles into open ocean, to shared state lines in Long Island Sound and the New York Bight and to the International boundary in the Great Lakes, Niagara and St. Lawrence Rivers.

31 The New York State Board on Electric Generation Siting and the Environment (Siting Board) consisted of the Chairman of the Department of Public Service, the Commissioner of DEC, the Commissioner of the Department of Health, the Chairman of the New York State Energy Research and Development Authority, the Commissioner of the Department of Economic Development, and two ad hoc public members.

32 Facilities subject to Article X were specifically exempted from SEQRA. ECL §8-0111(5)(b) (expired and repealed 2003). The predecessor to Article X was PSL Article VIII, which was enacted in 1972, and applied to the siting of new major steam generating facilities.
In order to ensure expeditious review of applications, the Siting Board was required to issue a decision within 12 months of a complete application being filed, subject to limited extensions. A unique facet of the process was the availability of intervenor funding to defray the fees for expert witnesses and consultants of municipal and local parties in order to afford more meaningful participation by these entities.

The key findings that the Siting Board was required to make in granting an Article X Certificate included:

- that the facility is either consistent with the most recent State Energy Plan or was selected pursuant to an approved procurement process.
- that the facility will minimize adverse environmental impacts, considering the state of available technology, the nature and economics of reasonable alternatives, and other pertinent considerations.
- that the facility is compatible with public health and safety.
- that the facility is designed to operate in compliance with applicable State and local laws and regulations, other than local requirements found to be unreasonably restrictive.
- that the construction and operation of the facility is in the public interest.

Article X also contained a specific provision for any party aggrieved by the Siting Board’s decision to systems, seek rehearing before the Siting Board, followed by judicial review. For example, Trans Gas Energy, LLC recently sought rehearing and judicial review of the Siting Board’s determination denying an Article X Certificate, although the Court ultimately upheld the Siting Board’s decision.33

Siting Activity

There was a significant amount of activity regarding Article X applications prior to the statute expiring. The types of facilities proposed under Article X were all primarily natural gas-fired generators. Appendix A contains a summary of Article X projects that were proposed and the status of those projects.

While Article X has expired, it continues to apply to applications filed on or before December 31, 2002. Recently, Empire State Newsprint/Besicorp-Empire State Development Co, LLC began construction of a 505 MW natural gas-fired facility in Rensselaer County. Moreover, several applicants have renewed their CAA permits, and retained the ability to construct those facilities at a later date, such as the 250 MW facility by Spagnoli Road Energy Center/KeySpan in Suffolk County.

Nuclear Generation Facilities

NRC is responsible for licensing and regulating the design, construction, operation, and decommissioning of commercial nuclear power plants. The licensing process includes approving initial license, subsequent license modifications, and license renewals. For new reactor facilities, NRC reviews applications submitted by prospective licensees, and (when appropriate) issues standard design certifications, early site permits, limited work authorizations, construction permits, operating licenses, and combined licenses.

However, a developer must ensure adequate site control, since these approvals do not confer the right of eminent domain upon an applicant.

While NRC has jurisdiction over the safety aspects involved in the construction and operation of nuclear-powered electric generation facilities, the states retain authority to determine questions such as the need for additional generating capacity, cost, reliability, land use, ratemaking, consistency with coastal zone management policies, and other related state concerns.

Overview of the Process

In the past, nuclear power plants were licensed under a two-step licensing process. This process required both a construction permit and an operating license. In 1989, NRC established an alternative one-step licensing process that combines a construction permit and an operating license, with certain conditions, into a single Combined License (COL). In a COL application, NRC staff reviews the applicant's qualifications, design safety, environmental impacts, operational programs, site safety, and verification of construction. The staff conducts its review in accordance with the Atomic Energy Act, NRC regulations, and NEPA. By issuing a COL, NRC authorizes the licensee to construct and (with specified conditions) operate a nuclear power plant at a specific site, in accordance with established laws and regulations. A COL is valid for 40 years from the date of NRC’s finding that the acceptance criteria in the COL are met and can be renewed for an additional 20 years.

Under either process, before an applicant can build and operate a nuclear power plant, it must obtain approval from NRC. Other licensing alternatives established in 1989 were early site permits, which allow an applicant to obtain approval for a reactor site and bank it for future use, and certified standard plant designs, which can be used as pre-approved off-the-shelf designs.

Under 10 CFR Part 52, NRC may issue an early site permit for approval of one or more sites separate from an application for a construction permit or COL. Such permits are good for 10 to 20 years and can be renewed for an additional 10 to 20 years. They address site safety issues, environmental protection issues, and plans for coping with emergencies, independent of the review of a specific nuclear plant design.

Upon receiving an application, and determining it is complete, NRC publishes a notice of receipt in the Federal Register. NRC reviews the application and documents its findings on site safety characteristics and emergency planning in a safety evaluation report. Public meetings are then scheduled near the proposed site. NRC also conducts an environmental review in accordance with NEPA to evaluate the potential environmental impacts and benefits of the proposed plant.34

In accordance with NEPA, every proposal for a major federal action significantly affecting the quality of the human environment requires a detailed statement on, among other things, the environmental impact of the proposed action and alternatives to the proposed action. The statement accompanies the proposal through the agency review process. NEPA also established in the Executive Office of the President, a Council on Environmental Quality, which has issued regulations on the preparation of environmental impact statements and on public participation in the preparation of the statements.

An Environmental Assessment is typically prepared and describes the need for a proposed action and lists the agencies and experts consulted. If the assessment indicates the proposed facility or action will have a

34 NEPA process is described earlier in greater detail in connection with FERC’s electric transmission siting process.
significant effect on the environment, a DEIS is developed. Scoping meetings are held in the vicinity of the affected community to provide a forum for members of the public to express their opinions and provide information for the environmental review. These meetings are often held to help the agency identify issues to be addressed in an EIS and typically involve state and local agencies, sovereign Native American nations, or other interested people who request participation. The DEIS is issued for comment by the public, as well as appropriate federal, state, and local agencies. NRC will then issue and make public an FEIS, which addresses all comments that the agency received.

Preparation of an EIS under NEPA may eliminate the need to prepare an EIS under SEQRA, but a State agency requested to take an action, e.g., Water Quality Certification, will still need to make the appropriate findings under SEQRA.

**Siting Activity**

Although no nuclear generating facilities have been sited and constructed within the State recently, several facilities have been sited and are currently in operation, while one has been proposed. The units in operation include the James A. FitzPatrick, Ginna, Indian Point Units 2 and 3, and Nine Mile Point Units 1 and 2. On September 30, 2008, Nine Mile Point Nuclear Project, LLC and UniStar Nuclear Operating Services, LLC (UniStar) filed an application for a COL regarding a new facility, referred to as Nine Mile Point, Unit 3, located in Scriba, Oswego County, NY. This application is currently under review by NRC.

**Hydroelectric**

Under the FPA, FERC is charged with the authorization and regulation of the nation’s non-federal hydroelectric power projects that affect navigable waters, occupy U.S. lands, use water or water power at a government dam, or affect the interests of interstate commerce. A potential developer of a hydroelectric project must file an application for a license or exemption from licensing if the project is or will be: 1) located on a navigable waterway of the U.S.; 2) occupying U.S. lands; 3) utilizing surplus water or water power from a U.S. government dam; or, 4) located on a body of water over which Congress has Commerce Clause jurisdiction, project construction occurred on or after August 26, 1935, and the project affects the interests of interstate or foreign commerce. Given its broad authority, it is anticipated that very few projects would fall outside of FERC’s jurisdiction.

FERC recently indicated that it also has jurisdiction over hydrokinetic projects that generate electricity from waves or directly from the flow of water in ocean currents, tides, or inland waterways, which are located on the Outer Continental Shelf (OCS). FERC provides a process to obtain a preliminary permit to study the development of a hydrokinetic project at an identified site, and to apply for a license to construct and operate a hydrokinetic electric generation facility utilizing one of three licensing processes provided for other hydroelectric projects, i.e., the Integrated, Traditional, or Alternative Licensing Processes.

FERC may issue a preliminary permit for up to three years. Although these permits do not authorize construction, they give the developer first priority to study a project at the specified site for the duration of the permit. This is otherwise known as guaranteed first-to-file status. Once the preliminary permit has

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been granted, the permittee must submit reports containing specific information, including a schedule of activities and target dates, and periodic reports on the status of its studies. 

FERC issues three types of construction authorizations: 1) licenses for the construction of new projects, or for the continuation of an existing project, i.e., relicensing, which are issued for 30- to 50-year terms. These licenses provide the power of eminent domain to obtain lands or other rights needed to construct, operate, and maintain the hydroelectric project; 2) an under-5 MW exemption, which is issued in perpetuity at the site of an existing dam or for use of a natural water feature. In order to be exempt, an applicant must propose increased capacity and own all lands and facilities other than federal lands to be eligible; and, 3) a Conduit Exemption, which is also issued in perpetuity.

The exemptions noted above are from the requirements of Part I of the FPA. However, the exempted project is subject to mandatory terms and conditions set by federal and state fish and wildlife agencies and by FERC, and do not convey the right of eminent domain.

Overview of the Process

The hydropower licensing process generally includes consultation with stakeholders, identification of environmental issues through scoping, and preparation of environmental documents such as Environmental Assessments or an EIS under NEPA. Licenses are issued by FERC, while other approvals, such as DEC issuance of a Water Quality Certification under the CWA, or a consistency determination under the CZMA may be needed. In the traditional licensing process, environmental issues are identified through scoping after the license application has been filed with FERC. The traditional licensing process includes a pre-application and application process.

The alternative licensing process permits scoping of environmental issues to occur prior to the application being filed with FERC. The applicant files a preliminary draft environmental review document along with the application for a license. The alternative licensing process includes a pre-filing and application process.

The default process for filing an application for an original, new, or subsequent license is the Integrated Licensing Process (ILP). The ILP is intended to streamline FERC's licensing process by providing a predictable, efficient, and timely licensing process that ensures adequate resource protections.

The application steps generally require; a pre-filing consultation and initial project review, an application for a state Water Quality Certification or waiver, the filing of a license or exemption application, comments from interested agencies and entities, and a comprehensive project review.

36 Developers interested in a short-term license to test new technologies may be eligible to use FERC’s Hydrokinetic Pilot Project Licensing Process. The goal of the pilot process is to allow developers to test new hydrokinetic technologies, to determine appropriate siting of these technologies, and to confirm their environmental effects, while maintaining FERC-oversight and agency input.

37 Conduit exemptions are authorized for generating capacities 15 megawatts or less for non-municipal and 40 megawatts or less for a municipal project. The conduit has to have been constructed primarily for purposes other than power production and be located entirely on non-federal lands, which the exemptee must own.

Siting Activity

There has been significant interest in the development of new hydroelectric projects throughout the State. While FERC has issued preliminary permits to various developers to study the potential development of a combined total of approximately 740 MW, several other applications for preliminary permits are currently pending. On October 23, 2003, FERC issued a new 50-year license pursuant to the FPA to the New York Power Authority (NYPA) for the 912 MW St. Lawrence FDR project, located on the St. Lawrence River, St. Lawrence County, New York. On March 15, 2007, FERC issued a new license to NYPA for the continued operation and maintenance of the 2,756 MW facility located on the Niagara River, in Niagara County. More recently, the Green Island Power Authority submitted an application with FERC in March 2009 to relicense the Green Island Hydroelectric Project located on the Hudson River, and to increase the peak generating capacity from the current six MW to 48 MW.

2.3 Natural Gas Facilities

2.3.1 Natural Gas Pipelines

Intrastate Pipelines

PSL Article VII provides the PSC with jurisdiction over applications to construct and operate “major” fuel gas transmission lines, i.e., facilities extending a distance of at least 1,000 feet and operated at pressures of 125 psi or more, with some exceptions. In 1981, the Legislature streamlined the Article VII procedure and application requirements in connection with natural fuel gas transmission facilities that extend 1,000 feet or more, but less than ten miles. The streamlined requirements applicable to such fuel gas transmission facilities are set forth in PSL Section 121-a and in 16 NYCRR Subpart 85-1.

Overview of the Process

The Article VII process, described generally earlier, addresses the State siting process for electric and fuel gas transmission facilities. While both electric and gas transmission applications under Article VII have similar procedures and may culminate in the issuance of an Article VII Certificate, the necessary findings are slightly different. With respect to major gas transmission lines, the PSC must find and determine:

- the basis of the need for the facility.
- the nature of the probable environmental impact.
- that the facility represents the minimum adverse environmental impact, considering various alternatives and other pertinent considerations.
- in the case of a gas transmission line, that the location of the line will not pose an undue hazard to persons or property along the area traversed by the line.

\[39\] Fuel gas facilities may include natural gas, i.e., primarily methane, and other types of fuels, such as propane.
Siting Activity

The PSC has reviewed and certified various facilities under Article VII within the last few years. Some of those facilities were certified in connection with electric generating facilities, e.g., the Arthur Kill and Besicorp facilities, which are discussed below.

In 2002, Arthur Kill Power, LLC (Arthur Kill), a wholly-owned subsidiary of NRG Energy, Inc., filed an application, pursuant to PSL Article VII, to construct an approximately 2.3 mile, 20-inch natural gas transmission line in the Borough of Staten Island, Richmond County in order to enhance gas supply to the Arthur Kill Power Plant. Arthur Kill was subsequently granted an Article VII Certificate. The Article VII Certificate also included Freshwater and Tidal Wetland Permits required by ECL Articles 24 and 25, and a CWA section 401 Water Quality Certification for the proposed pipeline. Arthur Kill was also required to obtain USACE approval for any necessary authorization under §10 of the Rivers and Harbor Act and §404 of the CWA, relating to construction of pipelines in coastal areas.

In 2004, Besicorp-Empire Power Company, LLC (Besicorp) filed a PSL Article VII application to construct an approximately 4.5 mile long, 16-inch natural gas transmission line in the Towns of Schodack and East Greenbush, and in the City of Rensselaer, Rensselaer County. The gas pipeline was related to the project proposed by Besicorp-Empire Development Company, LLC to build a 505 MW cogeneration power plant in the City of Rensselaer. Besicorp was granted an Article VII Certificate to construct the gas pipeline, along with a CWA section 401 Water Quality Certification. Given that construction of the pipeline crossed streams and wetlands, Besicorp was required to obtain a USACE permit pursuant to Section 404 of the CWA. In addition, Besicorp sought approval from the New York State Department of Transportation (DOT) for highway work and occupancy permits for construction along and across the DOT’s right-of-way. Because a review was performed pursuant to Section 106 of the National Historic Preservation Act, it precluded otherwise applicable requirements of Section 14.09 of the Parks, Recreation and Historic Preservation Law.

During the planning horizon, it is anticipated that there may be several projects seeking to utilize the Article VII siting process in the context of constructing pipelines for delivering gas extracted from wells drilled into the Marcellus Shale rock formations located within western New York. These developers may seek to construct pipelines for delivering gas prior to the wells being productive, and will be required to make an adequate demonstration of the need for such pipelines. As discussed in the Natural Gas Assessment, wells combined with hydraulic fracturing will provide the best means for producing economic volumes of natural gas from the Marcellus Shale. This process raises various environmental concerns with respect to the effects on water supplies, and proper measures for disposal of contaminated fluids used in the fracturing process. To assess the potential environmental concerns related to the

40 The PSC may refuse to apply any local ordinance, law, resolution or other action or any regulation issued thereunder or any local standard or requirement which would be otherwise applicable if it finds that as applied to the proposed facility such is unreasonably restrictive in view of the existing technology, or of factors of cost or economics, or of the needs of consumers whether located inside or outside of such municipality.

41 A summary table of recent Article VII projects, which is current as of September 3, 2009, is available at: http://www.dps.state.ny.us/articlevii_Gas.pdf

42 Another related project was the proposal by Niagara Mohawk Power Corporation to construct a major electric transmission facility to interconnect the proposed power plant to the electric grid.
development of the Marcellus Shale formation in New York, DEC is reviewing horizontal drilling and hydraulic fracturing in the context of a SGEIS, which is expected to be finalized in 2010, and will form the basis for issuing permits for drilling.

**Interstate Pipelines**

Pursuant to the Natural Gas Act (15 U.S.C. §717 et seq.), FERC’s jurisdiction extends to the issuance of certificates of public convenience and necessity to prospective companies providing energy services or constructing and operating interstate natural gas pipelines and storage facilities. In its review of an application, FERC ensures that the applicant has certified that it will comply with U.S. Department of Transportation safety standards. While FERC has no jurisdiction over pipeline safety or security, they work with other agencies with safety and security responsibilities.43

The Natural Gas Act grants the right of eminent domain when a certificate of public convenience and necessity is issued by FERC (15 U.S.C. §717f). Thus, when FERC finds that a proposed project is in the public convenience and necessity, the pipeline company has the right to acquire the necessary property and right-of-ways for that project by eminent domain if the pipeline cannot acquire the necessary land through a negotiated easement, or where the landowner and the pipeline cannot agree on the compensation to be paid for the land.

**Overview of the Process**

The natural gas pipeline certificate process used by FERC generally includes consultation with stakeholders, identifying environmental issues through scoping, and preparing environmental documents such as an Environmental Assessment or EIS under NEPA.44

**Siting Activity**

Approximately ten interstate gas pipelines have been approved by FERC within New York since 2003, such as the Iroquois Gas Transmission System, L.P. pipeline. While FERC also oversees construction practices and procedures, a potential disadvantage with FERC’s oversight is its ability to effectively monitor compliance. In particular, a lack of sufficient personnel to carry out these responsibilities may hamper its efforts.

**2.3.2 Natural Gas Wells/Storage Facilities**

**Overview of the Process**

DEC has authority to permit natural gas wells (Environmental Conservation Law Article 23). Consideration of these permits entails a review under SEQRA, which is discussed in detail above. Regarding storage facilities, FERC may issue certificates of public convenience and necessity for the construction and operation of new natural gas storage projects and those seeking authorization to increase working gas capacity of an existing storage field. DEC has participated in FERC’s certification

43 A coastal zone Consistency Review may also be required for projects within or affecting coastal zones.

44 FERC acts as the Lead Agency for purposes of complying with NEPA. NEPA process is described in detail above in the section addressing electric transmission siting by FERC.
proceedings as a cooperating agency for purposes of conducting the environmental review pursuant to NEPA (42 U.S.C. §4321 et seq.).

Siting Activity

In 2006, 352 gas well permits were issued; nearly double the 180 permits issued in 2005. At least 183 new gas wells were completed in 2006, a substantial increase from the 104 gas well completions in 2005. The gas wells currently in operation throughout the State are identified on DEC’s website.45

Since 2000, FERC has certified five projects for the expansion of capacity or new storage capacity within the State, for a total capacity of 42.7 billion cubic feet (Bcf). The largest of those projects is the Central New York Oil and Gas Company (Stagecoach) project in Tioga County, NY, with a capacity of 13.6 Bcf. An application is currently pending before FERC to construct another seven Bcf storage facility.

2.3.3 Liquefied Natural Gas (LNG) Terminals

FERC has authority under the Natural Gas Act (15 USC 717b(e) (1)) to authorize the siting, construction, expansion, and operation of facilities located onshore or in State waters for the import or export of LNG. However, even if FERC approves a project, the Applicant may only construct and operate it after obtaining CWA,46 CZMA, and CAA approvals from the states.47 In the event a state finds a proposed project is inconsistent with its federally approved coastal management program, the developer may appeal the state’s decision to the U.S. Secretary of Commerce.

The Deepwater Port Act gives the U.S. Coast Guard and Maritime Administration jurisdiction over LNG terminals and pipelines outside of state waters. Pipelines leading from deepwater LNG terminals come under FERC’s jurisdiction above the high water mark when the pipeline comes onshore.49

Overview of the Process

FERC uses a comprehensive review process that entails coordination between the U.S. Coast Guard, U.S. Department of Transportation, the states and local governments. Projects under review can go through two processes: the Pre-Filing process or the Traditional process. The end result of the review process is an EIS that addresses both environmental and safety concerns in accordance with NEPA.

Prior to a company filing an LNG-related application, company representatives commonly meet with Office of Energy Projects (OEP) staff to explain the proposal and solicit advice. These meetings provide prospective applicants the opportunity for FERC staff to offer suggestions related to the environmental,

45 Data on Oil, Gas and Other Wells in New York State.  http://www.dec.ny.gov/energy/1524.html
46 Under the CWA, a Section 401 certification of compliance with the state’s water quality standards is required from the responsible state agency for any activity (including construction and operation of LNG import facilities) that may result in a discharge into navigable waters. If the certification is denied, the LNG facility cannot be constructed. In addition, the CWA requires a Section 404 permit is permit from USACE for discharge of dredged and fill material.
47 Under the CAA, Section 502, a permit is required for any person to operate a source of air pollution, as detailed in the Act. If the responsible state agency does not issue the permit, the project cannot go forward.
48 State agencies have federally delegated authority under the CZMA, administered by the U.S. Department of Commerce; the CAA, administered by the U.S. Environmental Protection Agency; and the CWA, administered by USACE.
engineering and safety features of the proposal. At this stage, FERC will review conceptual designs of
planned LNG facilities, provide guidance on resolving potential environmental, safety, and design issues,
and explain the level of design detail and safety analysis required for a complete application. In this
manner, FERC staff learns about future projects which may be filed at the Commission and helps direct
companies in their application preparation. This assistance is provided either informally or as part of the
formal NEPA Pre-Filing Process, which is designed to reduce the amount of time required to issue an EIS
once an application is made.50

Prior to any FERC decision regarding an LNG application, OEP staff prepares an Environmental
Assessment (EA) or an EIS to fulfill the requirements of NEPA. The purpose of the document is to
inform the public and the permitting agencies about the potential adverse and/or beneficial environmental
and safety impacts of proposed projects and their alternatives.

FERC’s process generally starts with the issuance of a Notice of Application being filed. FERC acts as
Lead Agency and undertakes an environmental scoping, and issues a Notice of Intent to Prepare an EIS or
EA. Public meetings are then held to solicit initial input. Subsequently, FERC issues a Notice of
Availability of the DEIS or EA, and will receive comments thereupon. Additional public meetings are
then held to receive input on the DEIS or EA. Upon considering any comments, FERC will issue a
Notice of Availability of the FEIS or EA and receive comments thereupon. Following consideration of
the entire record, FERC will make a final decision on the project. If FERC determines that the proposed
LNG project is in the public interest, it will be approved. The orders approving all projects contain
conditions to protect the environment and ensure the safety and security of the project.

Beyond its authority based on federal statutes, the state also has the ability to be a cooperating agency
with FERC during the review of a project under NEPA, and can contribute to the complete environmental
review of the proposal.

Typically, NEPA documents for new LNG facilities (and major expansions of existing sites) include a
more robust study of potential impacts to public safety, i.e., thermal and flammable vapor exclusion zone
modeling and marine safety analysis. A large component of this analysis is accomplished under a
separate Cryogenic Design Review which seeks to assure the safe design of the proposed facilities and
system reliability and runs parallel to the environmental review.

Upon completion of the project review process by FERC, the developer will receive a decision stating
whether or not to approve construction and operation of the LNG terminal. FERC may place conditions
on the developer that must be met prior to construction, usually originating from the Cryogenic Design
and Inspection Manual.

**Siting Activity**

FERC has seen a considerable amount of interest in the construction of LNG terminals. Several terminals
have already been approved by FERC within the northeast, although they have not been constructed. One
of those LNG terminals was proposed within Long Island Sound by Broadwater Energy LLC -
TransCanada/Shell (Broadwater). Various State agencies were involved in the review of Broadwater’s
application, and coordinated in providing a safety advisory report to FERC in accordance with the

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50 FERC has adopted rules requiring potential developers of new LNG terminals to initiate pre-filing procedures at least six
months prior to filing a formal application.
authority provided under EPACT (15 U.S.C. §717b-1). FERC considered this report, as well as the input
received from various federal and State agencies, and interested parties in preparing the FEIS for the
Broadwater LNG import terminal and associated natural gas pipeline. DOS determined that siting the
facility within the Long Island Sound, as proposed, would be inconsistent with the policies and goals of
the CMP and LISCMP, but identified two alternatives that would be consistent. Broadwater’s appeal of
DOS’s inconsistency determination to the U.S. Secretary of Commerce was denied. Several parties have
sought judicial review of FERC’s determination granting a certificate to Broadwater, which is currently
pending.51

Moreover, there is currently one terminal under U.S. Coast Guard/Maritime Administration jurisdiction
that has been proposed, but has not completed the review process. This project was proposed by Safe
Harbor Energy - ASIC, LLC, to construct a 2.0 Bcf per day terminal located several miles offshore of
New York Harbor.

2.4 Oil Facilities

2.4.1 Oil Wells/Pipelines/Storage Facilities

Overview of the Process

DEC has authority over the permitting of oil wells, liquefied petroleum gas pipelines, underground oil
storage facilities, and major onshore oil storage facilities, defined as facilities sized 400,000 gallons or
larger.52 DEC ensures compliance with SEQRA, in coordination with any other involved local
governmental entities, in determining whether to issue a permit for such infrastructure. Most wells are
covered under a DEC generic EIS. Any pipelines used to carry oil from the well to a storage facility are
relatively short and are considered as part of DEC’s SEQRA review.

Siting Activity

Oil is produced in Cattaraugus, Chautauqua, Allegany, Erie, and Steuben Counties. High crude oil prices
have stimulated the drilling of new oil wells in old fields. As of 2006, 186 oil well permits were issued,
slightly less than the number of oil well permits issued in 2005, but nearly four times the number in 2004.
Oil well completions surged to 166 new oil wells in 2006, up from 95 oil well completions in 2005. The
pace of oil well drilling in 2005 was four times that of the late 1990s. Drilling permits in the State are at a
20-year high. The oil wells currently in operation throughout the State are listed on the DEC’s website.53
There are about a half-dozen oil pipelines currently operating in the State, although there has not been
interest recently in constructing new pipelines.

51 County of Suffolk, et al. v FERC, Nos. 08-5087, et al. (2d Cir.)
52 See ECL Article 23, and New York State Navigation Law §174. Licenses for major oil storage facilities may be issued for a
period up to five years. Smaller facilities are subject to registration requirements.
53 Data on Oil, Gas and Other Wells in New York State. http://www.dec.ny.gov/energy/1524.html
2.5 Emerging Infrastructure (Carbon Capture and Sequestration Facilities)

It is anticipated that there will be an interest in constructing new carbon capture and sequestration infrastructure, such as pipelines and wells for underground storage, to achieve desired emissions reductions pursuant to public policy programs. Although no such infrastructure has been built to date in the State, the Jamestown Board of Public Utilities has proposed construction of a CO₂ pipeline in connection with a coal-fired electric generating facility. However, there are no uniform standards for the siting and construction of this infrastructure. To address this regulatory gap, existing siting process for intrastate natural gas pipelines could be expanded to also cover CO₂ pipelines, i.e., PSL Article VII.
# Appendix A: PSL Article X – Siting Activity

<table>
<thead>
<tr>
<th>Project/Developer</th>
<th>Primary Fuel Type</th>
<th>MW</th>
<th>Town/County</th>
<th>Application Filing Date</th>
<th>Certification/Decision Date</th>
<th>In-Service Date/Status of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athens Generating Plant/ Athens Generating Co., LP</td>
<td>Natural Gas</td>
<td>1080</td>
<td>Athens/Greene</td>
<td>8/28/98</td>
<td>6/15/00</td>
<td>May 2004</td>
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<tr>
<td>Bethlehem Energy Center/ PSEG Power New York, Inc.</td>
<td>Natural Gas</td>
<td>750 total 350 net increase</td>
<td>Bethlehem/Albany</td>
<td>11/27/98 Amended 7/2/01</td>
<td>2/28/02</td>
<td>July 2005</td>
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<tr>
<td>Bowline Unit 3/Mirant Bowline, LLC</td>
<td>Natural Gas</td>
<td>750</td>
<td>Haverstraw/Rockland</td>
<td>3/20/00</td>
<td>3/26/02</td>
<td>On hold</td>
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<tr>
<td>East River Repowering/ Consolidated Edison Company of New York, Inc.</td>
<td>Natural Gas</td>
<td>360 total 200 net increase</td>
<td>Lower Manhattan</td>
<td>6/1/00</td>
<td>8/30/01</td>
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<tr>
<td>Astoria Energy/SCS Energy, LLC</td>
<td>Natural Gas</td>
<td>1000</td>
<td>Astoria/Queens</td>
<td>6/19/00</td>
<td>11/21/01</td>
<td>620 MW In-Service May 2006; 620 MW to be constructed</td>
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<tr>
<td>Ravenswood Cogeneration Project/KeySpan</td>
<td>Natural Gas</td>
<td>250</td>
<td>Queens</td>
<td>7/28/00</td>
<td>9/7/01</td>
<td>May 2004</td>
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<tr>
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<td>Brookhaven/Suffolk</td>
<td>8/17/00 (Preliminary Scoping Statement)</td>
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<td>Poletti/NYPA</td>
<td>Natural Gas</td>
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<td>Astoria/Queens</td>
<td>8/18/00</td>
<td>10/22/02</td>
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<td>Brookhaven/Brookhaven Energy, LP</td>
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<td>Brookhaven/Suffolk</td>
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<td>8/14/02</td>
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<td>Wawayanda/Orange</td>
<td>8/27/01</td>
<td>10/22/02</td>
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<td>Reliant Energy Astoria Repowering/Astoria Generating Co., LP</td>
<td>Natural Gas</td>
<td>1,816 total 562 net increase</td>
<td>Astoria/Queens</td>
<td>10/29/01</td>
<td>6/25/03</td>
<td>On hold</td>
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<tr>
<td>Project/Developer</td>
<td>Primary Fuel Type</td>
<td>MW</td>
<td>Town/County</td>
<td>Application Filing Date</td>
<td>Certification/Decision Date</td>
<td>In-Service Date/Status of Project</td>
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<td>Empire State Newsprint/ Besicorp-Empire State Development Co., LLC</td>
<td>Natural Gas</td>
<td>505</td>
<td>Rensselaer/Rensselaer</td>
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<td>King Park/PPL Global</td>
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<td>Smithtown/Suffolk</td>
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<td>5/8/03</td>
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<td>Glenville Energy Park Glenville Energy Park, LLC</td>
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<td>Greenpoint/Brooklyn</td>
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<td>Certificate Denied</td>
<td>Litigation Pending</td>
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<td>Grassy Point/Haverstraw Bay LLC</td>
<td>Natural Gas</td>
<td>550</td>
<td>Haverstraw</td>
<td>9/24/99 Pre-Application Report</td>
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<td>Bronx/New York</td>
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<td>Twin Tier</td>
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<td>Scriba</td>
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<td>Ramapo/American National Power</td>
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<td>Ramapo</td>
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<td>Buchanan/Westchester</td>
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<td>Project Canceled</td>
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