

**Leading Light
Wind**

Invenergy: OCS-A0542 Semi-Annual Progress Report

May 1, 2022 – October 31, 2022



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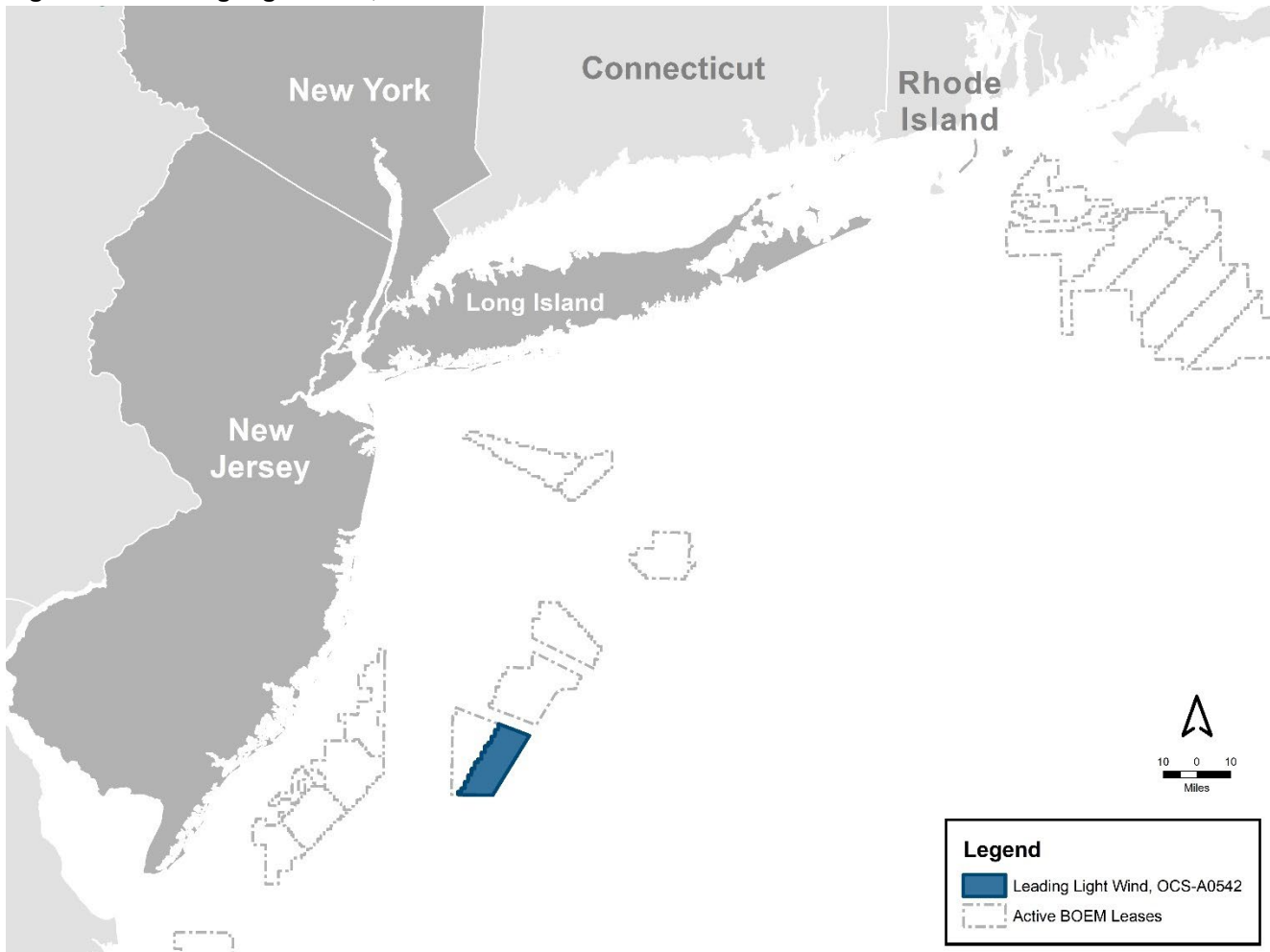
1. Introduction

This Progress Report is prepared in accordance with Commercial Lease OCS-A 0542, which requires that Invenergy Wind Offshore LLC (Invenergy; Lessee) submit a Progress Report to the Bureau of Ocean Energy Management (BOEM) every six months through the Construction and Operations Plan (COP) approval process. This Progress Report covers the reporting period May 1, 2022, to October 31, 2022. As required by Addendum C, Section 3.1.1 of the Lease, this Progress Report documents overall project progress and engagement activities undertaken with agencies, Native American Tribes, communities, ocean user groups, and the general public over the reporting period, and plans for continued engagement.

1.1. Project Overview

Invenergy executed Commercial Lease OCS-A 0542 in the New York Bight in April 2022. The Lease Area is located 40 miles east of Atlantic City, New Jersey and 80 miles south of Long Island, New York and encompasses approximately 84,000 acres of the U.S. Outer Continental Shelf. The project within the Lease Area has since been named the Leading Light Wind (LLW) Project. Figure 1 shows the LLW Lease Area.

Figure 1 – Leading Light Wind, OCS-A-0542 and Active BOEM Lease Areas



The LLW Project will include several wind turbine generators (WTGs) interconnected with electrical cables, foundations for the WTGs, one or two converter/transformer platforms and export cables connecting to the onshore electrical grid. The LLW Project is projected to produce over 2,000 megawatts that could power over 650,000 homes annually.

1.2. Project Sponsor Overview

As lead developer, Invenergy is developing the LLW Project with the support of local partner and Project co-sponsor energyRe. Invenergy and its affiliates have successfully developed more than 30 gigawatts of projects that are in operation, construction, or are contracted, including more than 890 megawatts of wind, solar, and advanced energy storage projects in New York. This furthers the State of New York's renewable energy policy, which requires 70 percent of the state's energy to come from renewable sources such as wind or solar by the year 2030. EnergyRe is an independent New York-based company focused on solving complex challenges and providing clean energy solutions. The team at energyRe has expertise in infrastructure, engineering, and development.

2. Project Progress

This section provides a summary of LLW Project-related site characterization and development activities conducted during the progress reporting period.

2.1. Site Characterization Activities

Invenergy is establishing protocols for offshore and onshore data collection and surveys to characterize the LLW Project area. The data will support preparation and submittal of a COP to BOEM.

To inform early development planning activities Invenergy conducted a reconnaissance-level geotechnical investigation June 16 to July 8, 2022. The investigation was conducted in conformance with BOEM's *Final Environmental Assessment and Finding of No Significant Impact for Commercial and Research Wind Lease and Grant Issuance and Site Assessment Activities on the Atlantic Outer Continental Shelf of the New York Bight* (December 2021).

On August 30, 2022, Invenergy met with BOEM to discuss its comprehensive data collection strategy and timeline to characterize the Lease Area and potential cable routes. In consideration of BOEM guidelines, Invenergy and BOEM discussed key data collection principles including:

- Leveraging existing data where applicable
- Considering past project precedents when designing data collection strategies
- Ensuring that new information collected matches the scale and/or complexity of the proposed project and addresses any key scientific questions
- Conducting only purposeful data collection that is useful in evaluating potential project impacts
- Adapting survey scopes over time allowing for refinements based on previous survey results and findings
- Considering data needs for National Environmental Policy Act (NEPA) analysis
- Identifying opportunities to supplement the COP.

Invenergy presented to BOEM its comprehensive strategy for assessing existing data, known sources of existing data, and proposed survey approach for resources such as geotechnical, geophysical, and benthic habitat.

2.2. Transmission Planning Activities

Invernergy continues to explore transmission corridor options from the Lease Area. Specifically, Invernergy is conducting an in-depth routing analysis from the Lease Area to several potential points of interconnection in New York and New Jersey.

During the next reporting period, Invernergy initiated outreach to and requested feedback from multiple federal and state agencies (U.S. Army Corps of Engineers [USACE], Department of Defense [DoD], National Oceanic and Atmospheric Administration [NOAA], National Marine Fisheries Service [NMFS], and the National Park Service [NPS]) about proposed transmission routes. Additionally, Invernergy is preparing to commence work to refine marine and terrestrial transmission routes, which will include, as necessary, stakeholder and outreach to Native American Tribes, additional agency engagement, onshore utility mapping, and consultations with civil construction companies on onshore routing options. These engagements will be logged in the next progress report to BOEM. Invernergy has also advanced several interconnection queue positions into the NY Independent System Operator (NYISO) System Reliability Impact Study (SRIS).

2.3. Other Development Activities

Invernergy has established an office in New York City, its third office in New York State, and developed a LLW Project website: <https://leadinglightwind.com/>.

Invernergy has been evaluating offshore wind renewable energy certificates (OREC) power contract opportunities. It has engaged with potential procurement and supply chain partners to support project delivery and meet obligations of OREC power contract opportunities. Procurement and supply chain support includes progressing partnerships with potential wind turbine generator original equipment manufacturers (WTG OEMs), developing several port and marshalling solutions to enable construction of the LLW Project, and developing supply chain investment plans.

Invernergy has completed overall conceptual engineering design for all development options under consideration for the Lease Area and onshore. It has conducted preliminary geophysical surveys of potential export routes and as previously mentioned, a reconnaissance-level geotechnical survey of the Lease Area.

3. Agency Engagement

Invernergy has conducted preliminary outreach with federal, state, and local agencies as described in the following sections. At this early stage of project development, the goals of this outreach were to establish points of contact, open lines of communication, introduce the LLW Project and Project leadership, and discuss data collection needs and site characterization approaches.

Invernergy designated an Agency Liaison Officer (ALO) for the LLW Project. It submitted the LLW Agency Communication Plan to BOEM on August 26, 2022 and posted the plan to the LLW Project website: https://leadinglightwind.com/assets/pdfs/leadinglightoffshore/INV_LeadingLight_FINAL_AgencyCommPlan.pdf

Invernergy will continue engaging federal, state, and local agencies as needed to refine approaches to data collection and site characterization; discuss permit strategies; identify avoidance, minimization, mitigation, and monitoring measures; and advance preparation of the Project COP. For instance, coordination will occur with federal and state agencies on upcoming benthic, geotechnical, and geophysical surveys and permitting needs. Invernergy will also maintain presence at relevant regulatory agency meetings (for example, Mid-Atlantic Fishery Management Council [MAFMC], Northeast Fisheries Management Council [NEFMC], and the New York State

Energy Research and Development Authority’s [NYSERDA] Fisheries Technical Working Group [F-TWG] and Environmental Technical Working Group [E-TWG]) to provide development information and solicit feedback.

3.1. Federal Agencies

Below is a summary of engagement activities conducted with Federal agencies during the reporting period.

Date	Federal Agency	Meeting Objective	Outcome
3/10/2022	BOEM	Meet-and-greet	Continued coordination
3/30/2022	BOEM	Pre-survey plan meeting for reconnaissance-level geotechnical campaign	Input informed survey plan
5/16/2022	BOEM	NY Bight Programmatic Environmental Impact Statement (PEIS) introduction	Continued coordination
8/30/2022	BOEM	Data collection strategy	Continued coordination
9/15/2022	BOEM	Pre-survey plan meeting for benthic survey campaign	Input informed survey plan
9/28/2022	BOEM	First monthly LLW Project check-in	Continued coordination

In August 2022, Invenergy sent Project introduction emails to the Environmental Protection Agency (EPA), NOAA, USACE, DoD, and the U.S. Fish and Wildlife Service (USFWS). In October 2022, Invenergy sent a Project introduction email to the U.S. Coast Guard and established a line of communication with the USACE New York and Philadelphia Districts and NPS. Invenergy has scheduled a pre-application with the USACE for November 17, 2022, and a meeting with NOAA for November 15, 2022. Near-term, future meetings with agencies with jurisdiction will focus on preliminary transmission routes.

3.2. State Agencies

Below is a summary of engagement activities conducted with state agencies during the reporting period.

Date	State Agency	Meeting Objective	Outcome
1/28/2022	NYS Office of General Services (OGS)	State lands discussion	Continued coordination
4/2022	New York State Office of General Services	Cable routing and ownership of nearshore submerged lands	Continued coordination and further cable routing refinement
6/15/2022	NYC City Parks, NYC DOT	Project introduction, cable routing and landfalls	Continued coordination and further cable routing refinement
6/15/2022	NYC DOT, NYC Parks	Project introduction	Continued coordination
6/28/2022	NYC DOT	Revocable consent process	Continued coordination

Date	State Agency	Meeting Objective	Outcome
8/08/2022	NYS DEC, NYS DPS, NYS DOS, NYS DOT	Project introduction and routing	Continued coordination and further cable routing refinement
9/16/2022	NYSERDA	F-TWG	Continued coordination
10/03/2022	NJ DEP	Project introduction	Continued coordination
10/07/2022	NJ BPU	Continued discussion with NJ BPU including permit component to discuss BPU involvement and role relative to other state agencies	Continued coordination

3.3. Local Agencies

Below is a summary of engagement activities conducted with local agencies during the reporting period.

Date	Local Agency	Meeting Objective	Outcome
6/15/2022	NYC DOT, NYC Parks	Project introduction	Continued coordination
6/15/2022	NYC Mayor's Office	Project introduction	Continued coordination
6/29/2022	NYC DOT	Additional discussion on routing	Continued coordination

4. Native American Tribal Engagement

This section summarizes Invenergy's engagement activities with Native American Tribes.

On July 25, 2022, BOEM contacted Invenergy and the other Lessees in the New York Bight to inform parties that BOEM's requirement for each lessee to hold a meeting with the Tribes within 120 days of lease execution could be overly burdensome to the Tribes. In the spirit of reducing stakeholder burden and coordinating engagement, BOEM indicated that it would be playing a convening role and facilitate a meeting with all the lessees and Tribes to discuss developments in the New York Bight, communication best practices, and the development/refinement of communication plans. BOEM agreed to waive the 120-day deadline associated with Lease Stipulation 3.1.2.2 of Addendum C of leases OCS-A 0537-0544 (such as, requirement for a Native American Tribal Communications Plan). BOEM further requested that Lessees not pursue any additional conversations with the Tribes at this time.

Invenergy is awaiting further direction from BOEM before undertaking additional engagement with Native American Tribes for the next reporting period. Future Tribal engagement needs include coordination on the development of a Native American Tribal Communications Plan (NATCP), transmission routes, and survey activities.

4.1. Applicable Federally Recognized Native American Tribes

Below is a list of applicable federally recognized Native American Tribes identified for engagement in Section 5.3.3 of Lease OCS-A 0542:

- Absentee-Shawnee Tribe of Indians of Oklahoma,
- Delaware Tribe of Indians,
- Eastern Shawnee Tribe of Oklahoma,
- Mashantucket Pequot Tribal Nation,
- Mashpee Wampanoag Tribe,
- Mohegan Tribe of Connecticut,
- Shawnee Tribe,
- Stockbridge-Munsee Community Band of Mohican Indians,
- The Delaware Nation,
- The Narragansett Indian Tribe,
- The Shinnecock Indian Nation, and
- Wampanoag Tribe of Gay Head (Aquinnah).

4.2. Summary of Native American Tribal Engagement Activities

Below is a summary of engagement activities conducted with Tribes during the reporting period.

Date	Tribe	Meeting Objective	Outcome
7/21/2022	Delaware Nation Tribal Historic Preservation Office (THPO)	Project introduction	Continued coordination
7/21/2022	Stockbridge-Munsee Community Band of Mohican Indians THPO	Project introduction	Continued coordination

Invenergy designated a Tribal Liaison Officer (TLO) for the LLW Project. Under the direction of the TLO, Invenergy engaged in coordination with all identified federally recognized Native American Tribes prior to BOEM’s request for lessees to pause communications with Tribes. Below is a list of engagement conducted with Tribes during the reporting period.

Reconnaissance-level Geotechnical Investigation: In mid-April 2022, Invenergy submitted a letter to all applicable Tribes regarding the proposed reconnaissance-level geotechnical investigation scheduled to take place in summer 2022. Invenergy sent letters on April 15, 2022, via USPS (not certified) to at least two contacts per Tribe regarding the campaign. Included in the letter were an introduction to the sponsors and the Project, the proposed initial data gathering effort, and a map showing the Lease Area. Following submittal of those letters, that same day, Invenergy sent e-mails to all Tribes (to the same recipients of the letters) with a PDF of the letter sent by mail and a list of all Tribal contacts who received communications. If an email response was received regarding an erroneous address (physical or electronic), Invenergy forwarded the information as appropriate, to the alternative address provided in the email response.

On May 6, 2022, Invenergy made follow-up telephone calls to all applicable Tribes. The follow-up calls ensured that Tribes received the letters and e-mails and to inquire if Tribes had any questions, wished to speak with the LLW Project team at a pre-survey meeting. Additionally, Invenergy provided its Tribal Liaison’s contact information (email/mobile number) to all Tribal contacts to ensure they have a direct and consistent means for having their concerns/questions addressed expeditiously. None of the Tribes stated interest in meeting with LLW regarding the reconnaissance-level geotechnical investigation at the time.

All correspondence and contacts with the applicable Tribes have been logged and compiled into a spreadsheet for the LLW Project.

Introductions Meeting: On June 24, 2022, Invenergy sent letters via certified mail to all applicable Tribes inviting them to a virtual Teams meeting on June 21, 2022. The purpose of the meeting was for introductions between the LLW Project leadership and the Tribes. A key goal was to present the LLW Project beyond the preliminary information shared in April 2022 and to learn what thoughts the Tribes have on engagement and collaboration moving forward—key to this was to introduce the project timeline as presently understood.

Following the letters, Invenergy sent e-mails to all applicable Tribes on June 27, 2022, and telephone outreach to all Tribes occurred just prior to the meeting on July 19, 2022. On July 20, 2022, Invenergy sent a meeting reminder e-mail to all Tribes. Two Tribes attended the virtual Teams meeting held on July 21, 2022—The Delaware Nation THPO and The Stockbridge-Munsee Community Band of Mohican Indians THPO.

On July 25, 2022, BOEM issued the notice to suspend all Tribal engagement. On July 27, 2022, Invenergy sent an e-mail to the July 21, 2022, meeting attendees to thank them for their participation. There has been no further outreach since that time. In anticipation of the issuance of final guidance for the NATCP, Invenergy continues to gather information and keep the needed Tribal points of contact up to date.

There were no potential adverse effects to the Tribes and parties identified during this reporting period. Therefore, there were no project design or implementation alterations to address any adverse effects to Tribes instituted. The LLW project is currently in its initial stages and LLW will continue to engage with Tribes to ensure early identification of any potential adverse effects of the project to Tribes.

5. Fisheries Engagement

Invenergy has designated a Fisheries Liaison Officer (FLO) for the LLW Project and posted this information on the Project website: <https://leadinglightwind.com/mariners>. Invenergy also submitted the LLW Fisheries Communication Plan (FCP) to BOEM on August 26, 2022, and posted the FCP to the LLW Project website: https://leadinglightwind.com/assets/pdfs/leadinglightoffshore/INV_LeadingLight_FINAL_FisheriesCommPlan.pdf.

In accordance with the FCP, Invenergy conducted an in-depth desktop analysis of recreational and commercial fisheries uses of the offshore Lease Area covering 12+ years of available data and identified key fishing industries and historical trends, including port reliance. Invenergy is collecting information to assess potential fisheries mitigation strategies, including cable burial depth, armoring, turbine spacing, and turbine orientation. Invenergy is also using this information to develop its Fisheries Mitigation Plan. Invenergy engaged with NYSERDA to discuss participation on the F-TWG.

Invenergy is currently conducting in-depth desktop analysis of recreational and commercial fisheries uses along potential export cable routes. Invenergy will continue engagement with the fisheries community in accordance with the FCP under the leadership of the FLO. Engagement may include coordination on upcoming geotechnical and geophysical surveys; gathering peak fishing times and areas; in-person and virtual port visits to share development information and collect feedback; identifying Fisheries Industry Representatives (FIRs) from main commercial and recreational fisheries users of the Lease Area; conducting recreational fisheries outreach to better understand recreational uses in the Lease Area; attending relevant fishery stakeholder organizational meetings, conferences, trade shows, and tournaments; and continued support of discussions regarding fisheries mitigation solutions with input from fisheries stakeholders.

6. Other Stakeholder Engagement

As mentioned in Section 2 above, from June 16 to July 8, 2022, Invenergy conducted a reconnaissance-level geotechnical investigation of the lease area OCS-0542. Invenergy released a notice to mariners prior to the

investigation to notify mariners of the planned survey. An FLO was onboard the survey vessel during the entirety of the reconnaissance-level geotechnical investigation to communicate with and address any potential concerns should the survey encounter fishermen or their gear. Invenergy did not receive any responses from other parties regarding the notice to mariners. In addition, Invenergy included Protected Species Observers (PSOs) onboard the survey vessel to monitor for and ensure the safety of protected species during the survey.

Invenergy has engaged in discussions with organized labor, including the North America's Building Trades Unions (NABTU) and the New York State Building and Construction Trades (NYSBCT), in line with its lease requirement to make every reasonable effort to enter a Project Labor Agreement(s) (PLA) covering project construction. Invenergy has likewise engaged with numerous industry and trade associations, environmental organizations, and key local stakeholders. No potential project effects to interested parties were identified at this time, nor were project design changes warranted as a result of these engagements.

For the next reporting period, Invenergy intends to engage with, as necessary, other stakeholders such as fisheries and mariners in preparation for conducting planned benthic, geotechnical, and geophysical surveys, organized labor, educational institutions, community groups, and environmental non-government organizations.

7. Coordinated Engagement

Invenergy has participated in coordinated engagement efforts with other Lessees. Invenergy has worked with the larger offshore wind development community through the American Clean Power Association (ACP) to advocate for the offshore wind industry, collaborate on policy discussions, and coordinate with federal agencies on emerging policy guidance. Invenergy has actively engaged with other New York Bight lessees on the Programmatic EIS BOEM is undertaking for the New York Bight. Invenergy has also coordinated closely with Lease OCS-A-0541 on the wind turbine layout and alignment of key corridors as part of preliminary design.

