



Advanced Nuclear Request for Information (RFI 5946)

Responses Preferred by: December 16, 2024

The purpose of this Request for Information (RFI) is to identify entities either already pursuing, or interested in, a potential role in advanced nuclear energy technology development in New York, and to request details on such roles. This will help to support consideration of any next steps New York State may take in this regard.

Potential Respondents: Stakeholders interested in using advanced nuclear solutions to serve their energy needs, supply chain entities, (potential) host communities, workforce entities, project developers, financing/funding entities and those working on research and development. This RFI is not aimed at input regarding nuclear power and its role in New York as such. NYSERDA has commenced a process to collect that feedback, as well as views on a range of issues related to nuclear energy, separately through a public comment process relating to the Draft Blueprint for Consideration of Advanced Nuclear Energy Technologies.¹

As regards advanced nuclear generation projects, consideration in this RFI is restricted to New York Independent System Operator (NYSISO) Control Area Load Zones A-F.² Consideration of all other aspects addressed here (such as energy consumers, supply chain, workforce) extends to all parts of New York State.

We encourage responses to this RFI by **December 16, 2024** through NYSERDA's [Online Portal](#). We will accept submissions thereafter as well.

I. Introduction

The Climate Leadership and Community Protection Act (Climate Act) has set out the key targets and timeline for decarbonization in New York. In September 2024, the Future Energy Economy Summit put forward actions and needs associated with advancement of a decarbonized grid in New York State, acceleration of renewable energy development, as well as advancement of the technologies that will be necessary to enable a deeply renewable grid. Additionally, new economic development opportunities in the State in high tech manufacturing and Artificial Intelligence (AI) as a result of federal laws and policies are increasing the need to look at new technologies that can supplement renewable energy while

¹ The Draft Blueprint is available here: <https://www.nyserdera.ny.gov/ny/Future-Energy-Economy-Summit>. The comment period for the Draft Blueprint closed on November 8, 2024. Further opportunities for public comment on matters raised in the Draft Blueprint will be made available in due course.

² See https://www.nyiso.com/documents/20142/1397960/nyca_zonemaps.pdf/8c3807e1-5bab-ab44-3c71-2c8e61b5748b

providing the power quality and density necessary to support that economic growth and advancing New York’s energy and environmental goals. New York is already well along the path to unlock the contribution from a wider range of energy efficiency and renewable energy solutions towards achieving these targets. Consideration of action in respect of other clean energy technologies, including advanced nuclear energy technologies, has now commenced at multiple levels, including through:

- New York’s State Energy Plan, which commenced in September 2024 and will address all parts of the New York energy sector;³<https://energyplan.ny.gov/>
- The Public Service Commission proceeding CASE 15-E-0302 – Proceeding on Motion of the Commission to Implement a Large-Scale Renewable Program and a Clean Energy Standard,⁴ which includes consideration of the target of zero emissions in the electricity sector by 2040, as set out in the Climate Act; and
- The Draft Blueprint for Consideration of Advanced Nuclear Energy Technologies (as referenced above), published by NYSERDA in September 2024.

These processes will take time, and require – in particular as regards new nuclear energy – careful assessment not only of the opportunity for advanced nuclear technologies to make a potentially significant contribution towards New York decarbonization needs while at the same time boosting economic development, but also of the risks and challenges, ensuring that any new nuclear development would responsibly manage and address concerns such as around siting, safety, community interests, and waste.

At the same time, important developments are also underway outside New York. Other states and jurisdictions are already starting to develop new nuclear development projects. The federal government is developing programs that offer potentially significant levels of support in particular to states that act quickly. Market forces are teaming large power and industrial heat users with dedicated nuclear generation development. New York must be ready to leverage and respond to these opportunities as soon as possible where they make sense.

Within this context, this RFI invites any entities considering developing projects related to nuclear energy in New York or with a direct potential interest in such projects to identify themselves and provide initial information on their expected or potential level and type of involvement. This includes energy consumers seeking advanced nuclear solutions (users of large electric load, industrial heat, hydrogen, etc.), (potential) host communities, financing/funding entities, nuclear generation project developers, those operating in the supply chain and workforce development sectors that would contribute to the development and operation of nuclear projects, and those interested in advancing the nuclear industry through various research and development areas.

As regards nuclear power generation projects, consideration in this RFI is restricted to NYISO Zones A-F,⁵ though consideration of all other aspects addressed here (e.g., energy consumers, supply chain, workforce) extends to all parts of New York State.

³ <https://energyplan.ny.gov/>

⁴ [NYS DPS-DMM: Matter Master](#)

⁵ See https://www.nyiso.com/documents/20142/1397960/nyca_zonemaps.pdf/8c3807e1-5bab-ab44-3c71-2c8e61b5748b

II. Responding to this RFI

This RFI will remain open, and responses may be submitted, until further notice. However, **responses are preferred and encouraged by December 16, 2024**, in order to support timely consideration and appropriate follow-up.

The RFI is also posted on this website for public access: [Current NYSERDA Opportunities](#). Any updates or modifications will be posted at this website.

Responses to the RFI should provide the information listed in Section IV below and should be submitted through NYSERDA's [Online Portal](#). The portal enables responses to be submitted as files in .docx or .pdf format. Responses may alternatively be submitted by regular mail to: Alyse Peterson, NYSERDA, 17 Columbia Circle, Albany, NY 12203.

NYSERDA may reach out to respondents to seek clarifications as well as to pursue follow-up dialogue on the issues raised in responses.

If you have technical questions regarding this RFI, please contact NuclearRFI@nysERDA.ny.gov.

III. Content of Response

Responses should be concise and only address the areas/ questions below where the respondent has a particular interest. Please limit your response to 10 pages at most.

The following information and items should be included in every response to this RFI:

- Respondent's name, affiliation, title, and primary contact information.
- Identify and provide general background about your organization, as relevant to this RFI.
- The RFI question number(s) to which responses are provided.

Confidentiality Note: NYSERDA does not intend to publish responses. However, if you believe that portions of your submission meet the exceptions for disclosure set forth in the Freedom of Information Law (FOIL), specifically, NY Public Officers Law section 87(2), please mark them "Confidential" or "Proprietary" and provide the justification required by law with your submission. NYSERDA will process such requests under the procedures included in FOIL (NY Public Officers Law Article 6) and NYSERDA's FOIL regulations as detailed below. FOIL includes an exception from disclosure under section 87(2)(d) for records or portions thereof that "are trade secrets or are submitted to an agency by a commercial enterprise or derived from information obtained from a commercial enterprise and which if disclosed would cause substantial injury to the competitive position of the subject enterprise." see NY Public Officers Law section 89(5) and the procedures set forth in 21 NYCRR Part 501.

IV. Information Requested

Below are a series of questions for consideration. Respondents are not required to address all questions or subject areas. Respondents should focus on questions relevant to them. To the extent respondents have already engaged with NYSERDA on any of the issues raised below, while responses may be concise as appropriate, responses are still requested to enable NYSERDA to consider a consistent level of initial input from all respondents. To the extent a respondent has already responded to any of the below questions in response to the draft Blueprint for Consideration of Advanced Nuclear Technologies

published on September 5, 2024, feel free to refer to such response. Please see the note in section III above regarding marking of submissions as confidential.

Electric Load Energy Consumers Seeking Advanced Nuclear Solutions

1. Are you an entity (i) considering establishing or expanding operations in New York that would imply significant levels of new load, for which you are considering using advanced nuclear energy technologies, or (ii) considering transitioning current operational load in New York to advanced nuclear energy technologies? If so:
 - Please summarize your (expected) needs as regards load/capacity and timeline;
 - Please summarize the factors that influence your choice of technology option between advanced nuclear energy technologies or other potential sources of power;
 - Please summarize any steps you may have already taken to pursue the option of advanced nuclear energy technologies to serve your load needs in New York, such as establishing links with advanced nuclear power plant developers or narrowing down a preferred nuclear technology option;
 - Please indicate what role New York State should play, including facilitating partnerships with developers and other relevant partners;
 - Please indicate the extent to which your entity currently operates or is based in New York or in other states/ overseas. To the extent you are not currently (fully) based in New York, please indicate what potential you see for your company to expand your operation in, or move your operation to New York, depending on the level of nuclear deployment that New York might decide to pursue. Please indicate whether this is a conversation your company would be interested in pursuing in more detail with New York State.

Consumers of Other Energy Applications Seeking Advanced Nuclear Solutions

2. Are you an entity considering establishing, transitioning, or expanding operations in New York for which you are considering using nuclear energy to produce industrial heat, hydrogen, or other applications? If so:
 - Please summarize your (expected) project, use case and timeline;
 - Please summarize the factors that influence your choice of nuclear energy for this project;
 - Please summarize any steps you may have already taken to pursue the option of nuclear energy to serve your needs in New York, such as establishing links with nuclear energy developers or narrowing down a preferred nuclear technology option;
 - Please indicate what role New York State should play, including facilitating partnerships with developers and other relevant partners.
 - Please indicate the extent to which your entity currently operates or is based in New York or in other states/ overseas. To the extent you are not currently (fully) based in New York, please indicate what potential you see for your company to expand your operation in, or move your operation to New York, depending on the level of advanced nuclear energy technology deployment that New York might decide to pursue. Please indicate whether this is a conversation your company would be interested in pursuing in more detail with New York State.

Supply Chain

3. Are you an entity that either produces or supplies products, services, or components that would be needed for the advanced nuclear energy industry and/or design, development, fabrication, construction, operation or maintenance of advanced nuclear energy projects in New York? If so:
- Please briefly describe the aspect of the supply chain your company operates in, the products/services provided, level of current activity/sales in the market, number of employees, key supply chain partners, and any other relevant information.
 - Please indicate the extent to which your entity currently operates or is based in New York or in other states/ overseas. To the extent you are not currently (fully) based in New York, please indicate what potential you see for your company to expand your operation in, or move your operation to New York, depending on the level of nuclear deployment that New York might decide to pursue. Please indicate whether this is a conversation your company would be interested in pursuing in more detail with New York State.

Host Communities (for Nuclear Reactor or Supply Chain Project)

4. Are you a municipality, economic development organization, or community organization either (i) serving a community potentially interested in hosting a new advanced nuclear reactor or supply chain project, or (ii) serving a community that you believe is or could be under consideration by developers as a potential host site for a new advanced nuclear reactor or supply chain project? If so:
- Please provide a summary describing your organization and identify the community (town or otherwise) with regard to which you are responding.
 - Please summarize the view of your organization and the spectrum of views you believe exists in the community you are serving with regard to new advanced nuclear development in the community in question. Please indicate in particular:
 - o What potential benefits for your community you see, or what benefits you believe the community would require in order to be supportive;
 - o Any concerns your organization or the community it serves has, as well as what it would take to address such concerns.
 - Please identify and describe any potential properties or sites in the community in question, including brownfield sites, that may be suitable for hosting a new advanced reactor project or supply chain project. Please include acreage, proximity to power infrastructure, proximity to any existing thermal load or manufacturer, and any other information you feel will be useful in this context.
 - Please indicate what type of engagement, information or other support New York State should offer to your organization and the community it serves in taking forward nuclear development.
 - If you know or believe that a specific new advanced nuclear energy technology project may be under consideration for a specific host community, please provide any details that you are aware of in regard to such project, including the site and the parties involved in developing it, and add any more specific views with regard to such project.

Workforce

5. Are you an entity (union, trade school, 2 or 4-year college, university, etc.) that represents or trains (or is interested in training) workforces relevant to design, licensing, construction, operation, or

maintenance of new advanced nuclear energy projects in New York? This can include, but is not limited to trades, STEM fields, and management/administration. If so:

- Please briefly describe the workforce and your role.
- Please describe education, certification, training and apprenticeship programs you provide or are interested in providing. Please include the timeline associated with workforce readiness.
- Please indicate what level of ability or capacity you have to supply this workforce. Please indicate what it would take to create or expand workforce development capacity, and what role New York State should play in this.
- If you are based or are currently providing services only outside New York, please indicate to what extent your services could contribute to a workforce in New York.

Nuclear Energy Generation Projects

6. Consideration of advanced nuclear energy generation projects in this RFI is limited to NYISO Zones A-F. Are you a company / organization / EPC provider / utility / financing entity that is developing, or considering developing (as applicable in partnership with others) one or more new advanced nuclear energy generation project(s) in the area of NYISO zones A-F in New York? If so, please summarize:

- The potential project (size, location, technology, use case, etc., to the extent known) and its stage of development and expected next steps/ timeline;
- Your interest/ involvement/ role;
- Other key partners involved (to the extent known);
- Any role you see for NYSERDA and New York State government as a whole in supporting or working with you on this project, both in the near term and subsequently;
- Please indicate the extent to which your entity currently operates or is based in New York or in other states/ overseas. To the extent you are not currently (fully) based in New York, please indicate what potential you see for your company to expand your operation in, or move your operation to New York, depending on the level of nuclear deployment that New York might decide to pursue. Please indicate whether this is a conversation your company would be interested in pursuing in more detail with New York State.

Research & Development

7. Are you a laboratory, university, or private entity that is either currently performing or interested in performing R&D in the nuclear industry? This can include, but is not limited to materials testing, innovative ways to obtain uranium, or advancing fusion technology. If so, please summarize:

- The R&D being done or planned to be done;
- Any key partners involved (to the extent known);
- Any R&D areas in the nuclear industry that you believe are not being pursued to a sufficient extent.

Disclaimer

The information gathered by NYSERDA will be advisory only and is not binding on any state agency, office, commission, or public authority. Any actions recommended by NYSERDA will be subject to all applicable laws, including procedural, regulatory, and environmental review requirements. This RFI is neither a contract offer nor a request for proposals and does not commit NYSERDA to award a contract, pay any costs incurred in preparing a response, or to procure or contract for services or supplies. Respondents are encouraged to respond to this RFI; however, failure to submit a response will not impact a Respondent's ability to respond to any future competitive solicitation process (if any) for projects, or influence the selection of a service provider going forward or affect its rights and obligations under any applicable laws or in any legal proceeding. NYSERDA reserves the right to discontinue or modify the RFI process at any time, and makes no commitments, implied or otherwise, that this process will result in a business transaction or negotiation with one or more Respondents. All costs associated with responding to this RFI will be solely at Respondents' expense.