

## REQUEST FOR EXPRESSIONS OF INTEREST

# Microreactor Technology for Picatinny Arsenal

Phase 1- Up to 50 MWe microreactor cluster on an Army Enhanced Use Lease site

|               |                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------|
| Issued by     | Ameresco, Inc.                                                                                              |
| Issue date    | October 23, 2026                                                                                            |
| Questions due | Friday, October 30, 2026                                                                                    |
| Responses due | <b>Friday, November 20, 2026, by 5:00 p.m. Eastern Time</b>                                                 |
| Contact       | Cenk Güler, Director of Nuclear Partnerships · <a href="mailto:cguler@ameresco.com">cguler@ameresco.com</a> |

## 1. Purpose of This Request

Ameresco, Inc. (Ameresco) invites developers of microreactor technology to express their interest in supplying the Phase 1 microreactor cluster of a power generation campus that Ameresco is developing at Picatinny Arsenal, New Jersey.

This Request for Expressions of Interest (EOI) is the first of two steps in Ameresco's technology selection for Phase 1. Ameresco will use the responses to choose a shortlist of three to five vendors, who will be invited to respond to a Request for Proposals (RFP) with full technical, schedule and commercial detail. The questions concentrate on what will decide the shortlist: schedule, availability, regulatory path, and technology readiness. Ameresco will use indicative cost to confirm consistency with the project's economics and will evaluate cost in detail in the RFP.

Ameresco would rather receive realistic figures given as ranges than optimistic point estimates, and a short, well-supported response is more useful than a long one.

## 2. Project Overview

Ameresco is developing a nuclear power generation campus at Picatinny Arsenal, in Morris County, New Jersey, under the U.S. Army's Enhanced Use Lease (EUL) program. Phase 1, the subject of this EOI, is a cluster of microreactor units delivering up to 50 MWe net of firm, dispatchable generation.

- **Site.** Inside the installation's core fence line. Ameresco will share parcel details with shortlisted vendors.
- **Lease and funding.** A proposed 50-year lease, with a 25-year renewal option requested from the Army. The Army is landlord and provides no funding; the project is privately financed.
- **Ameresco's role.** Developer, financier, EPC contractor and operator. The selected vendor supplies the reactor units and technology support.
- **Licensing.** Output will be sold under a long-term power purchase agreement. A grid-facing commercial plant needs an NRC license, so a route that relies only on DOE or Army authorization will not qualify.
- **Resilience.** After a grid outage longer than four hours, the plant must island and serve the installation's mission-critical loads for at least 14 days.
- **Cooling.** Air-cooled heat rejection is preferred. A design that would withdraw surface water or groundwater from the installation for cooling will need justification.
- **Installation hazards.** Picatinny is an active Army installation for armaments and munitions research, development and testing, so the design must address blast and other hazards from nearby operations (Q22).

- **Schedule.** Ameresco targets commercial operation starting as early as 2029, and no later than 2030. Respondents should give their own realistic dates (Q4).

### 3. Schedule

| Step                           | Date                                                     |
|--------------------------------|----------------------------------------------------------|
| EOI issued                     | October 23, 2026                                         |
| Written questions due          | Friday, October 30, 2026                                 |
| Answers sent to all recipients | Friday, November 6, 2026                                 |
| <b>Responses due</b>           | <b>Friday, November 20, 2026, 5:00 p.m. Eastern Time</b> |
| Shortlist notified (target)    | Week of December 7, 2026                                 |
| RFP issued (target)            | December 2026                                            |

Ameresco may change the dates for questions, answers, shortlist and RFP by written notice to all recipients. The response deadline will not be extended.

### 4. Instructions for Responding

#### 4.1 Submission

Email your response as one PDF file, named `CompanyName_Picatinny_EOI.pdf`, to Cenk Güler ([cguler@ameresco.com](mailto:cguler@ameresco.com)) by 5:00 p.m. Eastern Time on Friday, November 20, 2026. Supporting documents may be attached as separate files. Ameresco will confirm receipt by email. Please direct all communication about this EOI to the contact on the first page.

#### 4.2 Format and length

Answer the questions in section 5 in order, using their numbers (Q1 to Q22). Answer each question in one paragraph or a short table and keep the response to 12 pages, plus the one-page milestone list asked for in Q4 and the summary table in Appendix A, using a font of at least 10 points. You may attach supporting documents, but an attachment does not replace an answer. If a question does not apply to your design, say so and explain why. Ameresco is using NEA's Advanced Reactor Dashboard as a reference, and your responses will help confirm or correct the information presented there.

#### 4.3 Figures and evidence

- Give figures in the units asked for. Where a question asks for a number or a year, give **Low, Base and High** values: Base is your expected value, and Low and High are the lowest and highest (or earliest and latest) you consider realistic.
- Tag each figure and status claim with its evidence level: **Demonstrated** (test or operating data), **Analyzed** (design calculation or docketed licensing document) or **Estimated** (engineering judgment).
- Support status claims with third-party references where they exist: NRC docket and ADAMS accession numbers, signed contracts, or supplier and site-owner announcements.

#### 4.4 Pricing basis

Indicative figures are enough at this stage, but please price on the following basis so that responses compare. Ameresco will compute levelized cost in its own model from your figures; if you also give your own levelized cost, list every assumption behind it.

| Item                  | Basis                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Currency and year     | 2026 U.S. dollars, overnight: no escalation, interest during construction or financing costs                                                    |
| Plant                 | Up to 50 MWe net, priced per unit and for the full cluster                                                                                      |
| Unit maturity         | Whether Picatinny's units would be first-of-a-kind or later production units, and their place in your production sequence                       |
| Scope                 | Price your own scope; estimate owner and EPC scope (civil works, balance of plant, switchyard, security systems, spent-fuel storage) separately |
| Contingency           | Show as its own line                                                                                                                            |
| Fuel prices           | State your assumptions for uranium, conversion, enrichment and fabrication                                                                      |
| Incentives and grants | Leave out of all figures and list them in Q13                                                                                                   |

#### 4.5 Questions about this EOI

Send questions in writing to Cenk Güler ([cguler@ameresco.com](mailto:cguler@ameresco.com)) by Friday, October 30, 2026. Ameresco will send its answers to all recipients by Friday, November 6, 2026, without naming who asked.

### 5. Questionnaire

Answer every question, in order. Where a question asks for figures, follow sections 4.3 and 4.4.

#### A. Company and Configuration

- Q1 Interest and scope.** Confirm your interest in supplying Picatinny's Phase 1 cluster. With Ameresco as developer, financier, EPC contractor and operator, which scope would you take: reactor units, fuel supply, nuclear-island engineering, licensing documents, operator training, O&M support, decommissioning? If your business model requires a different EPC arrangement, such as an exclusive construction partner, describe it.
- Q2 Configuration for up to 50 MWe.** State the number of units; the net output per unit and for the cluster, with the ambient conditions assumed; the number of units per power-conversion train and per control room; and every system shared across units, such as turbine-generators, heat sinks, the switchyard or the control room.
- Q3 Company.** Describe your ownership and control, including any foreign ownership, control or influence; whether you are qualified under the Defense Innovation Unit's Advanced Nuclear Power for Installations (ANPI) program or hold an Army Janus award or a DOE Reactor Pilot Program selection; whether you are funded through your first-of-a-kind unit; and units under firm order.

#### B. Schedule and Availability

- Q4 Dates for Picatinny.** Give the years for first power from the first Picatinny unit and for commercial operation of the full cluster, each as earliest, expected and latest. Attach a one-page milestone list from March 1, 2027, to commercial operation (licensing submittals and approvals, fuel delivery, factory build, site construction, fuel load), marking each date as committed or target.

- Q5 Licensing path and schedule.** Describe the NRC route you propose (10 CFR Part 50, 52 or 53, proposed Part 57, or another route); if that route depends on a rule that is not yet final, the route you would fall back on under a final rule and what switching would add to the schedule; what you would license as vendor (for example a standard design approval, design certification, fuel qualification, or manufacturing license) and what the site licensee would file; your planned submittals, with the NRC review times you assume; and how you would license up to 50 MWe of units, for example under one application.
- Q6 Fuel supply.** State the enrichment and fuel form for the Picatinny units. For conversion, enrichment, deconversion and fabrication, give the supplier, country and contract status. Is first-core fuel for Picatinny contracted or reserved, and when would it arrive? If the fuel is above 10% U-235, name a commercial supply path open to a privately financed plant, not only a DOE allocation for a demonstration, and any LEU fallback.
- Q7 Factory and production slot.** Say where the units would be built and the factory's status (operating, under construction or planned); give production capacity by year for 2027–2032 and the units in the queue ahead of Picatinny, including Army Janus and other government work; say what Ameresco would need to commit, and by when, to hold a production slot (reservation, deposit or order); and list any funding or work you would expect from Ameresco before financial close beyond the equipment price, such as design completion, testing or a share of licensing costs.
- Q8 Construction and delivery.** Give the share of plant scope built and tested in a factory; the heaviest and largest shipment and how it travels; on-site construction time per unit and for the cluster, from mobilization to fuel load; and the number of units delivered and installed per month.
- Q9 Track record.** List the major milestones you have announced for this design since 2022, with the date promised and the date achieved or now forecast. Provide your most compelling argument about why your team will be able to deliver the cluster on the schedule you propose.
- Q10 Availability once running.** Give the expected long-run capacity factor and forced outage rate; the core life or refueling interval, the outage it takes, and whether units refuel in sequence while the others run; and the share of cluster output still available with one reactor, one power-conversion train or any shared component out of service.

### C. Indicative Cost

Use the pricing basis in section 4.4.

- Q11 Installed cost.** Give the equipment price per unit and the installed cost per unit and for the full cluster (Low, Base, High). Say whether the price rests on a quote, a signed order or an internal estimate.
- Q12 Operating, fuel and end-of-life costs.** Give fixed O&M (USD per kW-year) and variable O&M (USD per MWh); on-site staff for the cluster, security included; first-core and reload or core-swap cost per unit, and levelized fuel cost with its price assumptions; and decommissioning cost per unit, with your end-of-life approach for spent fuel. Calculate the answers without including the funding and incentives listed in Q13.
- Q13 Funding and incentives.** List public funding awarded or applied for that would lower Picatinny's cost, whether federal (for example DOE, the DOW, the Army or the DOC) or state; the domestic-content and prohibited-foreign-entity data you can provide for the 45Y and 48E tax credits; and anything about your design, ownership or supply chain that would affect the project's eligibility for a loan or loan guarantee from DOE or DOC. New Jersey's Power NJ Act (P.L.2026, c.42) requires one for projects that seek state support under it.

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## D. Technology Readiness

- Q14 Criticality and test data.** Has this design, or a prototype representative of it, reached criticality? Give the date, facility and regulator (NRC, DOE or Army). If not, give the committed date and facility, and say whether authorization and fuel are already in place. List the test data in hand (zero-power physics tests, control rod worth, reactivity feedback, hours at power) and how the tested unit differs from what you would deliver to Picatinny.
- Q15 Critical technology elements and design completion.** Name your critical technology elements (for example fuel, core, primary heat transport, heat exchangers, power conversion, instrumentation and control), give the technology readiness level (TRL) of each with its test evidence, and list the open technical risks with the dates they close. State the design stage reached (conceptual, preliminary, basic or detailed) and the share of engineering complete today and expected when site construction starts.
- Q16 Regulatory record.** List what you have submitted to the NRC and its status (accepted, approved or under review), with docket and ADAMS accession numbers: regulatory engagement plan, topical reports, quality assurance program, construction permit or other applications. If you hold or are seeking DOE or Army authorization, say what carries over to an NRC license for a commercially owned, grid-facing plant.
- Q17 Fuel qualification.** Has this fuel form been irradiated, and in test or power reactors? Give the qualification status, post-irradiation examination data, NRC-approved fuel topical reports, and the license status of the fabrication facility under 10 CFR Part 70.
- Q18 Manufacturability.** Identify components that need non-standard forgings, castings or materials, with the number of qualified suppliers and the lead time for each; any coolant or working fluid that needs special handling, such as sodium or molten salt, and what it adds to fabrication, transport and site work; the share of components made with existing ASME code-qualified processes; and your manufacturing readiness level.

## E. Site Fit

- Q19 Land and excavation.** Give the permanent land needed per unit and for the full cluster, and the construction laydown area, in acres; and the depth of your deepest below-grade structure, in meters.
- Q20 Emergency planning and exclusion area.** State the plume-exposure emergency planning zone (EPZ), the exclusion area boundary and the low population zone you expect to justify, and on what basis; and the distance at which an individual could receive 1 rem over the 30 days after the bounding release, the input to the population-density guidance of NRC Regulatory Guide 4.7, Revision 4.
- Q21 Heat rejection and water.** How does the plant reject normal operating heat and remove decay heat? If it needs cooling water, give average and peak use. List other water needs: service, fire protection, demineralized and potable.
- Q22 External hazards.** Give the peak blast overpressure, in psi, that the reactor enclosure tolerates without losing a safety function, with its basis, for explosives-safety siting near the installation's operations; your approach to fragments, toxic gas and flammable vapor clouds (including control room habitability), aircraft impact and radio-frequency emitters; and the seismic design basis as peak ground acceleration, unit in g.

## 6. Review of Responses and Next Steps

Ameresco will review responses mainly on schedule, availability, regulatory path, and technology readiness, along with on company standing and site fit. We will use indicative cost to confirm consistency with the project's economics and will evaluate cost in detail in the RFP. Every response will be judged against the same criteria. Ameresco may ask any respondent to clarify its response, in writing or in a call.

Ameresco expects to invite three to five vendors to the RFP. The RFP will ask for a full response in a standard workbook covering eleven areas: design and performance; technology readiness and schedule; NRC licensing; cost and levelized cost; manufacturing and supply chain; fuel cycle and on-site storage; site fit; dispatch and grid fit; O&M and staffing; safety, security and installation fit; and vendor viability and commercial terms. It will also set pass/fail requirements, among them:

- an NRC licensing path for a commercially owned plant, with a fallback under a final rule if the proposed route depends on a rule that is not yet final;
- island operation that supports the 14-day resilience obligation;
- first-core fuel with named suppliers at every fuel-cycle step, and no Russian-origin enriched uranium;
- no components, materials or software from prohibited foreign entities or foreign entities of concern;
- full disclosure of ownership and control; and
- a quality assurance program that meets the requirements of the NRC licensing route proposed (10 CFR 50 Appendix B and NQA-1 under Parts 50 and 52).

Ameresco will clarify the RFP's evaluation criteria, weights and pass/fail requirements before any proposal is opened.

Ameresco plans to hold one-to-one discussions with shortlisted vendors while they prepare their proposals.

## 7. Terms of This Request

- **Not an offer.** This EOI is a request for information. It is not a solicitation, an offer or a commitment to contract, no contract will result from it, and responses are non-binding.
- **Costs.** Respondents bear all costs of preparing and submitting a response.
- **Ameresco's discretion.** Ameresco may amend or cancel this EOI, ask any respondent for clarification, waive minor irregularities, and decide at its discretion which respondents to invite to the RFP.
- **Confidentiality.** Mark any proprietary information in your response. Ameresco will treat responses as confidential. Respondents without an NDA with Ameresco may use Ameresco's standard mutual NDA, available with this EOI.
- **Export control.** Do not include technology or technical data controlled under 10 CFR Part 810, the Export Administration Regulations or the International Traffic in Arms Regulations. If such information is needed at the RFP stage, Ameresco will arrange appropriate controls.
- **Conflicts of interest.** Disclose any relationship with Ameresco, the Army or the installation that could present a conflict of interest.
- **Publicity.** Do not announce or publicize your participation in this EOI without Ameresco's written consent.

## Appendix A: Summary of Key Figures

Complete this table and include it with your response. Give Low, Base and High values in the units shown; where a figure has a single value, such as enrichment, fill in Base only. Tag each row with its evidence level: D (Demonstrated), A (Analyzed) or E (Estimated).

| Figure                                         | Q  | Unit      | Low | Base | High | Evidence |
|------------------------------------------------|----|-----------|-----|------|------|----------|
| Net output per unit                            | 2  | MWe       |     |      |      |          |
| Units in the up to 50 MWe cluster              | 2  | units     |     |      |      |          |
| First power, first Picatinny unit              | 4  | year      |     |      |      |          |
| Full cluster in commercial operation           | 4  | year      |     |      |      |          |
| Fuel enrichment                                | 6  | % U-235   |     |      |      |          |
| Expected capacity factor                       | 10 | %         |     |      |      |          |
| Equipment price per unit                       | 11 | USD M     |     |      |      |          |
| Installed cost per unit                        | 11 | USD M     |     |      |      |          |
| Installed cost, full cluster                   | 11 | USD M     |     |      |      |          |
| Fixed O&M                                      | 12 | USD/kW-yr |     |      |      |          |
| Variable O&M                                   | 12 | USD/MWh   |     |      |      |          |
| Levelized fuel cost                            | 12 | USD/MWh   |     |      |      |          |
| Decommissioning cost per unit                  | 12 | USD M     |     |      |      |          |
| Engineering complete today                     | 15 | %         |     |      |      |          |
| Permanent land per unit                        | 19 | acres     |     |      |      |          |
| Permanent land, full cluster                   | 19 | acres     |     |      |      |          |
| Deepest below-grade structure                  | 19 | m         |     |      |      |          |
| Plume-exposure EPZ radius                      | 20 | m         |     |      |      |          |
| Exclusion area boundary                        | 20 | m         |     |      |      |          |
| Low population zone                            | 20 | m         |     |      |      |          |
| Distance to 1 rem in 30 days                   | 20 | m         |     |      |      |          |
| Water use, average, all purposes               | 21 | gpm       |     |      |      |          |
| Tolerable blast overpressure                   | 22 | psi       |     |      |      |          |
| Seismic design basis, peak ground acceleration | 22 | g         |     |      |      |          |