



U.S. Department of Energy

Categorical Exclusion Determination Form

Proposed Action Title:

Program or Field Office:

Location(s) (City/County/State):

Proposed Action Description:

Categorical Exclusion(s) Applied:

For the DOE procedures regarding categorical exclusions, including the full text of each categorical exclusion, see 10 CFR 1021.102 and Appendix B to [10 CFR Part 1021](#), and also Section 5.4 (Applying one or more categorical exclusions to a proposal) and Appendices B and C of [DOE's National Environmental Policy Act Implementing Procedures](#) (June 30, 2025).

Requirements and guidance in 10 CFR 1021.102 and DOE's NEPA Implementing Procedures: (See full text in regulation and in Implementing Procedures)

The proposal fits within a class of actions that is listed in Appendix B to 10 CFR Part 1021 or Appendix B and C of DOE's NEPA Implementing Procedures (June 30, 2025).

To fit within the classes of actions listed in Appendix B to 10 CFR Part 1021, or Appendix B of DOE's NEPA Implementing Procedures, a proposal must satisfy the conditions that are integral elements of the classes of actions in Appendix B of both 10 CFR Part 1021 and DOE's NEPA Implementing Procedures.

There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. DOE or an applicant may modify the proposal to avoid reasonably foreseeable adverse significant effects such that the categorical exclusion would apply.

The proposal has not been segmented to meet the definition of a categorical exclusion.

[Note: For proposals that fit within the categorical exclusions listed in Appendix C of DOE's NEPA Implementing Procedures, see DOE's notice of adoption for the subject Appendix C categorical exclusion for additional considerations. DOE notices of adoption for other agency categorical exclusions may be found on [DOE's Section 109 webpage](#).]

Based on my review of the proposed action, as NEPA Compliance Officer, I have determined that the proposed action fits within the specified class(es) of action, the other requirements and guidance set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer:

Date Determined:

Attachment A: Projects in the GLASING (NOFO Nos. DE-FOA-0003488) Program

| Prime Recipient (Control No.) | Project Title | Categorical Exclusion |
|--|---|--------------------------|
| Alfred University (3488-1512) | Glass Innovations for Future Thermal Savings (GIFTS) | B3.6, B3.15 |
| V-Glass, Inc. (3488-1502) | Innovative Technology Enabling Affordable R-10 Windows | B3.6 |
| Next Glass LLC (3488-1531) | A Low-Cost, Oven-Free Vacuum Insulated Glazing Development | B3.6 |
| North Carolina State University (3488-1503) | Vacuum Insulated Glazing Enabled by Toughened Composite Glassy Gel | B3.6 |

Bold text indicates the two projects included in the First Amended CX.



U.S. Department of Energy Categorical Exclusion Determination Form

Proposed Action Title: Galvanizing Leaps in Advanced Super INSulating Glass (GLASING) (NOFO No. DE-FOA-0003488)

Program or Field Office: Advanced Research Projects Agency - Energy

Location(s) (City/County/State): California, Maryland, Michigan, North Carolina, Tennessee

Proposed Action Description:

The Galvanizing Leaps in Advanced Super INSulating Glass (GLASING) program supports small-scale research and development of high performance Insulated Glass Units (IGU) to improve the energy performance of windows in new and existing buildings. GLASING technologies will achieve more than three times the thermal insulation of currently available double-pane IGU technology at competitive cost and optical performance. Specifically, GLASING projects will focus on rapid manufacturing of vacuum insulated glazing, aerogels, and other technologies that increase thermal resistance values in windows. If successful, GLASING projects would produce more economical, high performance IGUs, improve the energy performance of buildings, and reduce strain on the grid, freeing up power for other uses, ultimately improving energy efficiency and reducing dependence on foreign energy, thereby increasing U.S. energy security.

The GLASING Program is composed of 4 small-scale research and development projects that will be conducted by universities, national laboratories, and large businesses. This Determination covers 2 of the 4 projects (listed in Attachment A). These projects fit within the class of actions identified under the DOE Categorical Exclusions identified below. This assessment was based on a review of the proposed scope of work and the potential environmental impacts of each project. All project tasks will be conducted in accordance with established safety and materials/waste management protocols and pursuant to applicable Federal, State, and Local regulatory requirements.

Categorical Exclusion(s) Applied:

- B3.6 - Small-scale research and development, laboratory operations, and pilot projects
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For the DOE procedures regarding categorical exclusions, including the full text of each categorical exclusion, see 10 CFR 1021.102 and Appendix B to [10 CFR Part 1021](#), and also Section 5.4 (Applying one or more categorical exclusions to a proposal) and Appendices B and C of [DOE's National Environmental Policy Act Implementing Procedures](#) (June 30, 2025).

Requirements and guidance in 10 CFR 1021.102 and DOE's NEPA Implementing Procedures: (See full text in regulation and in Implementing Procedures)

- The proposal fits within a class of actions that is listed in Appendix B to 10 CFR Part 1021 or Appendix B and C of DOE's NEPA Implementing Procedures (June 30, 2025).
To fit within the classes of actions listed in Appendix B to 10 CFR Part 1021, or Appendix B of DOE's NEPA Implementing Procedures, a proposal must satisfy the conditions that are integral elements of the classes of actions in Appendix B of both 10 CFR Part 1021 and DOE's NEPA Implementing Procedures.
- There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. DOE or an applicant may modify the proposal to avoid reasonably foreseeable adverse significant effects such that the categorical exclusion would apply.
- The proposal has not been segmented to meet the definition of a categorical exclusion.

[Note: For proposals that fit within the categorical exclusions listed in Appendix C of DOE's NEPA Implementing Procedures, see DOE's notice of adoption for the subject Appendix C categorical exclusion for additional considerations. DOE notices of adoption for other agency categorical exclusions may be found on [DOE's Section 109 webpage](#).]

Based on my review of the proposed action, as NEPA Compliance Officer, I have determined that the proposed action fits within the specified class(es) of action, the other requirements and guidance set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer: **GEOFFREY GOODE** Digitally signed by GEOFFREY GOODE Date: 2026.03.04 14:40:39 -05'00' Date Determined:

Attachment A: Projects in the GLASING (NOFO Nos. DE-FOA-0003488) Program

| Prime Recipient (Control No.) | Project Title | Categorical Exclusion |
|--|---|----------------------------------|
| NextGlass LLC (3488-1531) | A Low-Cost, Oven-Free Vacuum Insulated Glazing Development | B3.6 |
| North Carolina State University (3488-1503) | Vacuum Insulated Glazing Enabled by Toughened Composite Glassy Gel | B3.6 |