

**U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
NEPA DETERMINATION**



RECIPIENT: T2C-Energy

STATE: FL

PROJECT TITLE : Demonstration Scale-up: TRIFTS Biogas to Renewable Fuel

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0002396	DE-EE0009761	GFO-0009761-001	GO9761

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering, analysis, and dissemination	Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)
B3.6 Small-scale research and development, laboratory operations, and pilot projects	Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to T2C-Energy (T2C) to develop plans to scale up their preexisting pilot-scale biofuel production technology to demonstration-scale. If the award were to proceed to Phase 2 (Phase 1 and 2 are described further below) a demonstration-scale biofuel production plant would be constructed on-site at a Municipal Solid Waste (MSW) landfill in Tennessee. Biogas from the landfill would be used as feedstock to produce biofuel at the plant.

Activities would be completed over two phases of work: (Phase 1) initial verification and design basis, and (Phase 2) detailed design, fabrication, and operation of the demonstration-scale plant. A down select review would be completed near the end of Phase I activities, after which DOE would issue a decision regarding continuation into Phase 2 activities. DOE previously completed a NEPA Determination (ND) for this award's Funding Opportunity Announcement (FOA) (FOA-0002396-001; CX: A9, B3.6; 05/20/2021) which only applies to initial verification activities for all awards issued under the FOA (DE-FOA-0002396). This ND will serve as a review of Phase 1 activities ND FOA-0002396-001 did not apply to. This ND does not apply to Phase 2 activities.

Phase 1 activities beyond initial verification activities would include information gathering, analysis, document preparation, and preliminary engineering and design activities. These activities would address key prerequisites such as personnel assignments, environmental planning, NEPA requirements, permits, basic design plans, risk mitigation plans, facility site requirements, life cycle analysis (LCA), technoeconomic analysis (TEA), financial requirements, and negotiating and finalizing agreements with third parties. Argonne National Laboratory (ANL) would complete the LCA.

Any work proposed to be conducted at a federal facility may be subject to additional NEPA review by the cognizant federal official and must meet the applicable health and safety requirements of the facility.

NEPA PROVISION

DOE has made a final NEPA determination.

Include the following condition in the financial assistance agreement:

