

Project Proposal Instructions for New Technology Projects that Reduce Emissions from Upstream, Midstream, and Downstream Oil and Gas Industry Activities

New Technology Implementation Grant Program (NTIG)

Texas Commission on Environmental Quality (TCEQ)

Texas Emissions Reduction Plan (TERP)

Solicitation No: 582-25-70001-NG



This document provides guidance for preparing the project proposal for submission with TCEQ Application Form 20686 for a grant under the New Technology Implementation Grant (NTIG) program.

If you have questions on how to complete a project proposal, please contact TERP staff at 512-239-4950 or TERP@tceq.texas.gov.

Important Dates	Date
Program Opening Date	Oct. 31, 2024
Application Submission Deadline	Jan. 7, 2025

Project Proposal Instructions

These instructions are designed to guide applicants in preparing a project proposal to be submitted with Application Form 20686 for a grant under the TCEQ New Technology Implementation Grant program (NTIG).

Only properly completed applications and project proposals will be considered for funding. Complete applications must include:

- All pages of the application;
- All required attachments;
- Applicant contact information;
- All required signatures; and
- All information necessary for TCEQ to review the application for selection according to the program requirements listed in the RFGA.

TCEQ will review applications and project proposals for completeness. If an application and/or project proposal is found to be incomplete, TCEQ will notify the applicant in writing and provide details about what is missing from the application and/or project proposal. Applicants will be provided a deadline of three (3) full business days to submit the missing information to TCEQ. The deadline will begin on the first full business day following the date the applicant was notified by TCEQ and will end at 5:00 p.m. CST on the third full business day. If the missing information is not received by TCEQ by 5:00 p.m. CT on the third full business day, the application will be determined ineligible by TCEQ.

Please note that if a grant is awarded, the terms and conditions in the grant contract posted on the [NTIG homepage](#) will be used and will be controlling in the grant award. If there are any terms and conditions in the sample grant contract that you cannot agree to you MUST identify those in your application. Please also note that TCEQ may not agree to any or all of the proposed changes and may award the contract based upon the sample grant contract.

Oil And Gas Project Proposal Outline

Grant applicants must answer the questions contained in this document. Please provide full and complete answers to the following questions. Applicants may provide as much detail as necessary. Applicants should submit a proposal using the sections and subsections below as an outline.

I. Project Summary

1. Please provide a brief summary of the project (150 words max).
2. Describe the project goals and objectives and how they align with the goals of the NTIG program.
3. Does the project meet the net reduction of actual emissions requirements for an oil and gas project? See Section 2.2 of the RFGA for guidance. Please provide calculations showing emissions reductions of regulated pollutants. Show entire calculation including the factors that were used, such as emission rates.
4. Please provide identifying numbers for the proposed project site, if any. This may include Customer Reference Numbers (CN), Regulated Entity Numbers (RN), or any other identifying labels or numbers assigned by TCEQ, the Public Utility Commission of Texas, and the Railroad Commission of Texas. Include GPS coordinates and/or physical

address of proposed project site. Indicate whether the site is in the Clean Transportation Zone.

5. Is the applicant the owner or operator of the facility in this application? Please provide proof of this by attaching relevant documents to the application. Also, please provide documents showing applicant has operational control of the facility in this application for the duration of the contract.
6. Describe in detail any applicable federal or state regulations at the proposed project site that currently exist or will exist that impacts the use, operation, or emission limitations of the proposed project equipment. If regulations currently impact equipment that will be upgraded, retrofitted, or replaced, please cite the regulatory requirement. This should include, but may not be limited to, federal or state rule requirements; federal or state permitting requirements, and/or legal agreements that limit the emissions of pollutants.
7. Provide a description of the technologies to be implemented and work to be done including labor, major equipment, or capital purchases. Include the implementation status at the time of application. Discuss any challenges or limitations of the technologies as identified by the research to date.
8. Discuss the proposed technologies' capabilities to provide significant reductions in emissions and any potential air quality benefits. What level of performance verification do the technologies have? Some examples of performance verification include, but are not limited to, the following:
 - **Tested** – emissions reductions capability of each technology has been verified or certified by the EPA, or has been tested in a laboratory that meets EPA requirements and standard;
 - **Guaranteed** – by the manufacturer of the technology; or
 - **Experimental** – each of the technologies may have been tested, but testing was not conducted in a laboratory that meets EPA requirements and standards.

Additionally, address the processes used by the facility, the fuel or feedstock used, and other attributes of the project that enhance this capability. Please refer to Section 5.1.3 of the RFGA for guidance.

9. What are the full characteristics of all the fuels, primary and otherwise, used for the facility in this application? Full characteristics of a fuel should include an *elemental or ultimate analysis*, and a *proximate analysis* that specifically includes heating value, ash or mineral matter content, and moisture content.
10. Explain any testing and analysis procedures that will be used to validate the performance of the proposed technologies during the project. Though not required, TCEQ may award points to applications that provide for a performance test on the proposed technology during the contract life.
11. Describe the energy efficiency attributes, if any, associated with this application.
12. Will this project implement the use of renewable energy resources? If yes, explain how these renewable energy components are part of the project.
13. Does this oil and gas project use natural resources originating or produced in Texas? If yes, explain.
14. Does this project make use of technology to recover waste heat from the combustion of natural resources to generate onsite electricity? If yes, please explain what technology will be used to generate the electricity and how the power will be used on-

site. If emissions will be abated as a result, explain how the emission reductions are achieved and quantify the emissions.

15. Does this project reduce flaring emissions and other site emissions? If yes, please explain how the proposed project would reduce those emissions.
16. Does this project reduce or eliminate the loss of gas? If yes, please explain in detail how the loss prevention technology works. Include details about the repurpose or reuse of the gas, or any wastes generated as part of the process.
17. What is the cost-effectiveness of the project proposed in this application? Please refer to Section 5.1.2 of the RFGA for instructions on computing cost-effectiveness. Provide detailed explanations and calculations below using the following formula:

$$\frac{\textit{Total Grant Amount Requested}}{\textit{5 years}} \\ \frac{(1 * \textit{TPY of NO}_x \textit{ reduced}) + (0.8 * \textit{TPY of VOC reduced}) + (0.8 * \textit{TPY of SO}_2 \textit{ reduced}) + (0.6 * \textit{TPY of PM reduced}) + (100 * \textit{TPY of HAPs reduced}) + (1000 * \textit{TPY of heavy metals reduced})}{}$$

Note: TPY means tons per year. Hazardous Air Pollutants (HAPs) that are heavy metals may only be counted as heavy metals in the equation. Please refer to RFGA Section 2.2 for a list of HAPs and 40 CFR 63 Subpart C for revisions thereof.

18. What is the implementation plan for this technology? Discuss how the applicant will operate and maintain the proposed technology during the contract including the 5-year reporting period after final reimbursement is paid by TCEQ.
19. Provide details about similar installations of the proposed technologies (whether the applicant was directly involved or not). Discuss the reliability of such installations.

II. Safety and Environmental Impact

1. Please include a full discussion of any safety issues and how they are addressed. Include a safety plan for the project. Points may be subtracted if this information is inadequate or if there are outstanding safety issues.
2. Please include a full discussion of any potential impacts on the environment, such as increased emissions of pollutants or creation of hazardous waste and how they are addressed. Points may be subtracted depending on how the technology will impact other areas of the environment.
3. If applicable, explain how any planned water usage for the project is consistent with the state water plan.

III. Applicant Qualifications and Experience

1. What qualifications does the applicant possess that will allow them to successfully complete the proposed project? Please identify any key personnel that will be involved on this project for the applicant.
2. What prior experience does the applicant have with projects of this nature? What relevant prior experience do the key personnel have? Please specify the number of relevant years of experience the applicant and the key personnel have with projects of this nature.

3. Please provide a description of your experience as well as past and present compliance history with environmental laws. Discuss any unresolved environmental compliance issues at the proposed site.
4. Please provide information on your financial stability and the economic benefits and job creation potential associated with the project. Please provide the documents listed below with the application package:

For the financial stability of an existing business, please include:

- 2-3 years of audited financial statements; including Single Audit, if applicable; and
- 2-3 years of tax returns.

For the financial stability of a new business, please include a:

- Business plan; and
- Pro forma financial statement.

For information regarding economic benefits and job creation potential all applicants should include:

- NAICS code;
 - Payroll and benefits;
 - Number of employees (current and planned); and
 - Gross sales.
5. Will the applicant be using any subcontractors? If so, please identify the subcontractors you anticipate using and the work they will do individually. If you have not currently identified a subcontractor for a particular task, describe the nature of the work for which a subcontractor will be needed. For each subcontractor, TCEQ will require the subcontractor's proposal or contract with the applicant including budget details that identify costs associated with each task to be performed by the subcontractor. Attach any letters of commitment from authorized officials of your subcontractor's organizations.

IV. Implementation Plan

Information provided in this section should focus exclusively on the project proposed for funding in this application. While it is appropriate in other portions of the application to discuss the broader or long-term plans for this technology, this section should only address work proposed for TCEQ funding.

Please provide a complete, detailed implementation plan for the project. If selected for award, this section will be used as the basis for developing the contract's Scope of Work. The plan should include an introduction, project objectives, project schedule, and a work statement for each task under the project. The project should be broken down into a set of logical, specific tasks that are carried out sequentially or in parallel. Please note any significant decision points and the standard for determining project continuation or termination. Additionally, the project implementation plan must state how the applicant would provide project information and education to the public in the areas subject to public notice under federal and state permitting requirements. This must include providing a publicly accessible informational webpage regarding the project.

The work statement for each task should explicitly identify:

- A detailed description of the steps to be completed under the task;

- The parties responsible for completing the task;
- The task timeline; and
- Grant deliverables for each task.

The implementation plan must also include the preparation and submission of detailed quarterly progress reports during the implementation period, a final implementation report, annual operation reports for the duration of the grant, and a final operation report at the end of the contract life.

The implementation plan outline provided below should be used as an example. The following instructions should be used when drafting the implementation plan:

- Add any necessary tasks not included in the outline by copying the same format as the included tasks and placing the new task in chronological order by start date.
- Begin each task with a brief (sentence or two) description of the overall goal of the task. Provide more specific details than just the task title.
- Describe each step necessary to complete a task. Try to include steps in chronological order by start date. It may be useful to include a start and end date for a task, but all other dates may be referenced in months as approximations.
- Deliverables should include all significant results from the work detailed in that stage (e.g., approved permit and/or final site plan) and any reasonable documentation of the completion of that stage (e.g., pictures of the installed equipment).

V. Implementation Plan Outline

Fill out and complete this section regarding your project.

Task 1: Secure rights to location

(Note: Grantees will not receive a Notice to Proceed (NTP) until Task 1 is completed, and insurance coverage is received).

- A. Goal: Describe the goal of this task
- B. Steps: Detailed steps to be taken
 1. Step 1 description
 2. Step 2 description
 3. Etc.
- C. Schedule: Deadline for completion (e.g., 3 months from property rights being secured)
- D. Deliverables: Deliverables for this task may include documentation of an executed lease or proof of land ownership.

Task 2: Secure authorizations as necessary to install and operate project

- A. Goal: Describe the goal of this task.
- B. Steps: Detailed steps to be taken
 1. Step 1 description
 2. Step 2 description

- 3. Etc.
- C. Schedule: Deadline for completion
- D. Deliverables: Deliverables for this task may include site plans, all authorizations including building permits, environmental permits, watershed permits, and proof of insurance.

Task 3: Specific project site preparation

- A. Goal: Describe the goal of this task
- B. Steps: Detailed steps to be taken
 - 1. Step 1 description
 - 2. Step 2 description
 - 3. Etc.
- C. Schedule: Deadline for completion
- D. Deliverables: Deliverables for this task may include photographic documentation of physical site modifications or a report documenting all civil and structural work completed for delivery and setting of equipment.

Task 4: Execution Contracts and Purchase of equipment

- A. Goal: Describe the goal of this task
- B. Steps: Detailed steps to be taken
 - 1. Step 1 description
 - 2. Step 2 description
 - 3. Etc.
- C. Schedule: Deadline for completion
- D. Deliverables: Deliverables for this task may include photographic evidence of equipment installation and executed integration service contracts, etc. Please include specific details regarding any equipment planned to be purchased.

Task 5: Installation and Commissioning of Project

- A. Goal: Describe the goal of this task
- B. Steps: Detailed steps to be taken
 - 1. Step 1 description
 - 2. Step 2 description
 - 3. Etc.
- C. Schedule: Deadline for completion (e.g., 4 months from installation)
- D. Deliverables: Deliverables for this task may include documentation of installation of equipment, report to include overviews of the installation and commissioning of the site. TCEQ is not obligated to reimburse funds prior to the installation of the project at the specific project site.

Task 6: Testing of final design

- A. Goal: Description of goal of this task
- B. Steps: Detailed steps to be taken
 - 1. Step 1 description
 - 2. Step 2 description
 - 3. Etc.
- C. Schedule: Deadline for completion
- D. Deliverables: Deliverables for this task may include any relevant reports and/or test procedures and results.

Task 7: Implementation Period Reporting (identical for all grants)

- A. Goal: Prepare and submit detailed quarterly progress reports during the project implementation period and a final implementation report while also ensuring compliance with all TCEQ program requirements. All reports will be made publicly available on TCEQ's website.
- B. Steps: Detailed steps to be taken
 - 1. Coordinate all project resources to ensure compliance with program requirements while providing deliverables on-schedule and on-budget.
 - 2. Generate quarterly progress reports and a final report verifying final completion of the facility.
 - 3. Create a webpage that describes the NTIG grant project, funding, and point of contact for public inquiries.
- C. Schedule: Submit quarterly progress reports to TCEQ on March 31, June 30, September 30, and December 31 of each year of the implementation period of the contract. Submit the final implementation report to complete this task within 2 years of the Limited NTP date as issued by TCEQ.
- D. Deliverables:
 - a. Quarterly progress reports.
 - b. Final implementation report submitted to TCEQ upon completion of this task. The final report will summarize all aspects of the project and verify completion of the project.

Task 8: Operation Period Reporting: Operate project for at least a five-year period (identical for all grants)

- A. Goal: Operate the project for at least a five-year period and report annually to TCEQ on the status of the project operation. All reports will be made publicly available on TCEQ's NTIG website.
- B. Schedule: Fulfill this task for five years from the completion of the Implementation period. The Implementation Period is completed upon the later of either 1) the payment of the final Request for Reimbursement and release of claims or 2) TCEQ's written approval of the final implementation report.

C. Deliverables:

- a. Annual operation status reports.
- b. Final operation report submitted to TCEQ upon completion of this task.

VI. Timeline

Please provide a Gantt chart or other timeline of all major project milestones and deliverables in an electronic format. All work must be completed within the time period specified in the grant contract; therefore, the proposed timeline should allow adequate flexibility for meeting this deadline given any delays.

Additional Information for Compressor Replacement, Repower, and Retrofit

Please include information about the compressor engine to be replaced and the new engine. This information, at a minimum, should include the following: a brief description of the equipment; compressor make; compressor model; compressor manufacture year; identification number; Emission Point Number (EPN) (if applicable); rated brake horsepower; fuel type (e.g., diesel, natural gas, electric); engine family code (if applicable); known pollutant emission rates in g/bhp-hr or g/kW-hr; method of determination for the emission rate (e.g., EPA/CARB certified standard, stack sampling); average annual operation hours; and the emissions standards to which the engine is applicable (e.g., 1.0 g/bhp-hr as found in 40 CFR Subpart JJJJ). The table below is an example of how the information may be presented.

Description	Old Engine	New Engine
Equipment Description		
Compressor Make		
Compressor Model		
Compressor Year		
Identification Number/EPN (Provide both if applicable)		
Rated Brake Horsepower		
Fuel Type		
Engine Family Code		
NO _x Emissions Rate		
Method of Determination		
Operating Hours		
Engine Emissions Standard		