ELEVENTH SUPPLEMENT TO LOAN GUARANTEE SOLICITATION ANNOUNCEMENT

FEDERAL LOAN GUARANTEES FOR ADVANCED FOSSIL ENERGY PROJECTS
Solicitation Number: DE-SOL-0006303
OMB Control Number: 1910-5134; OMB Expiration Date 3/31/2022
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The above-referenced Loan Guarantee Solicitation Announcement (the "Solicitation") as previously supplemented is further supplemented as set forth below (capitalized terms used herein and not otherwise defined have the meanings ascribed thereto in the Solicitation).

Section I.A "Purpose" is deleted and the following is inserted in its place:

Applicants are invited to apply for loan guarantees from the United States Department of Energy ("**DOE**") under Title XVII of the Energy Policy Act of 2005, as amended, 42 U.S.C. §§16511-16516 ("**Title XVII**"). Under this Solicitation ("**Solicitation**"), DOE seeks Applications for loan guarantees to finance projects and facilities located in the United States that employ innovative and advanced fossil energy technologies ("**Advanced Fossil Energy Projects**") that avoid, reduce, or sequester air pollutants or anthropogenic emission of greenhouse gases.

Section II.A "Project Eligibility" is amended by deleting the second paragraph thereof (defining "Eligible Project) and inserting the following in its place:

An "**Eligible Project**" under this Solicitation is a Project located in the United States that:

1. Uses advanced fossil energy technology (within the meaning of that term in Section 1703(b)(2) of Title XVII) and is described in one or more of the following technology areas:

   a) Advanced Resource Development. Projects that employ new or significantly improved technologies to economically develop, recover, and produce traditional and non-traditional fossil energy resources with reduced greenhouse gas emissions or air pollutants;

   b) Carbon Capture. Projects that integrate fossil fuel usage in traditional processes with new or improved technology that captures and removes CO_2 for permanent storage in underground formations or through beneficial reuse;

   c) Low-Carbon Power Systems. Projects that use fossil fuels for electricity generation using novel processes or improved technologies that can seamlessly integrate with CO_2 capture and storage or beneficial reuse;

   d) Efficiency Improvements. Projects that incorporate new or improved technologies to increase efficiencies and substantially reduce greenhouse gas emissions or air pollutants associated with fossil fuel supply and use;

e) Air Pollutant Control. Projects that utilize pollutant control equipment to reduce air pollutants; or

f) Alternative Vehicle Fuel Distribution Facilities. Projects that include, in appropriate cases, fuel distribution facilities, including associated hardware and software, for alternative vehicle fuels, including hydrogen, liquefied natural gas (LNG), and compressed natural gas (CNG), provided that such facilities otherwise satisfy all eligibility requirements; **and**

2. Meets both of the following requirements:

a) Projects that avoid, reduce, or sequester air pollutants or anthropogenic emission of greenhouse gases; **and**
b) Projects that employ New or Significantly Improved Technology as compared to Commercial Technology in service in the United State at the time the Term Sheet is issued.

Section I.A "Illustrative Types of Eligible Projects" is amended by deleting the first paragraph thereof and inserting the following in its place:

The following sample list of potential types of Eligible Projects is provided for illustrative purposes only**. The sample list is not intended to be, and is not, exclusive nor limiting. It is simply intended to identify types of projects that could be eligible, subject to technical review.** Submitting an Application that supports a Project that fits within one or more of the illustrative categories set forth below does not assure that such Application will be selected to receive a loan guarantee. Moreover, all eligible Projects, regardless of type, must avoid, reduce, or sequester air pollutants or anthropogenic emission of greenhouse gases and employ New or Significantly Improved Technology. These may include but are not limited to:

Section I.A.1 "Advanced Resource Development" is amended by deleting item a thereof and inserting the following in its place:

a) Novel oil and gas drilling, stimulation, and completion technologies, including dry fracking, that avoid, reduce, or sequester air pollutants or anthropogenic emission of greenhouse gases;

Section IV.C "Summary of Evaluation Process" is amended by deleting item 2 thereof and inserting the following in its place:

2. Avoids, reduces, or sequesters air pollutants or anthropogenic emission of greenhouse gases;

Section IV.G "Review of Policy Factors" is deleted and the following is inserted in its place:

DOE will evaluate the extent to which an Application for a Project that scores highly enough to continue to the competition based on Policy Factors, achieves policy objectives.

1. Assess to what measurable extent the Project avoids, reduces, or sequesters air pollutants or anthropogenic emissions of greenhouses gases;

2. Assess to what extent the New or Significantly Improved Technology to be employed in the Project, as compared to Commercial Technology in general use in the United States, is ready to be employed commercially in the United States, , yields a commercially viable project or service in the use proposed in the Project, and is or will be available for further commercial use in the United States;

3. Compare the percentage of guaranteed funds to total project costs relied upon by the Application to the percentage of the guaranteed funds to total projects costs relied upon by other Applications, with greater weight being given to Applications that rely upon a smaller percentage of guaranteed funds;

4. Assess the extent to which the Applicant and the Project Sponsor are prepared to proceed to Conditional Commitment and Closing with greater weight being given to Applications for which the Applicant and the Project Sponsor are prepared to proceed more expeditiously than other Applicants and Project Sponsors;

5. Assess the extent to which the New or Significantly Improved Technology to be employed in the Project can be replicated, the benefits for the United States based of such replication, and the extent to which successful deployment of the Project will accelerate the process of replication;

6. Assess to what extent the New or Significantly Improved Technology used in the Project constitutes an important improvement in technology, as compared to Commercial Technology, used to avoid, reduce or sequester air pollutants or anthropogenic emissions of greenhouse gases, and the Applicant has a plan to advance or assist in the advancement of that technology into the commercial marketplace.

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