

INVESTING in AMERICAN ENERGY

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BRIDGING THE FINANCING GAP PROVIDING CRUCIAL FINANCING FOR DEPLOYMENT OF FIRST-OF-ITS-KIND ENERGY TECHNOLOGIES



CLEAN ENERGY TECHNOLOGY MATURITY

LAUNCHING NEW MARKETS

U.S. UTILITY-SCALE PHOTOVOLTAIC SOLAR (PV) PROJECTS >100MW



AMERICAN ENERGY INNOVATION CONTINUES REMAINING LOAN AUTHORITY



AS OF OCTOBER 2015

RENEWABLE ENERGY & EFFICIENCY

TECHNOLOGY AREAS OF INTEREST

Advanced Grid Integration & Storage

- G Renewable energy generation, including distributed generation, incorporating storage
- Smart grid systems incorporating demand response

Drop-in Biofuels

- Ø New bio-refineries or bio-crude refining processes
- Ø Modifications to existing ethanol facilities to produce drop-in molecules

Waste-to-Energy

- Ø Methane from landfills or ranches via biodigesters
- Outilizing municipal solid waste, crop waste, or forestry waste

Enhancement of Existing Facilities

- O Powering non-powered dams or upgrading existing hydro facilities
- Retrofitting existing renewable facilities with innovative technology (e.g. wind turbine retrofits)

Efficiency Improvements

- Improve or reduce energy usage in residential, institutional, and commercial facilities, buildings, and/or processes
- O Recover, store, or dispatch waste energy or underutilized renewable energy sources

QUALIFYING PROJECTS ARE NOT LIMITED TO THESE TECHNOLOGIES

DISTRIBUTED ENERGY PROJECTS

SUPPLEMENTAL GUIDANCE FOR:

Advanced Fossil Energy Projects SOLICITATION

Renewable Energy & Efficient Energy Projects SOLICITATION

- Comprised of installations of facilities utilizing a single technology, or a defined suite of technologies, at multiple sites, deployed pursuant to a master business plan.
- Must satisfy criteria of Title XVII, LPO regulations, and applicable solicitation.
- Access to financing under a single arrangement for multiple installations.
- Structures other than illustrations in supplements may exist or be developed.
- Solicitations do not involve a re-lending program.

REEE SOLICITATION ELECTRIC VEHICLE (EV) CHARGING SUPPLEMENT





EV charging infrastructure may be eligible as a Distributed Energy Project under the REEE Solicitation



Projects may include EV charging facilities, including associated hardware and software



Projects must satisfy all Title XVII program eligibility requirements

For more information, visit: www.energy.gov/lpo/ev

ELIGIBILITY REQUIREMENTS

TITLE XVII CLEAN ENERGY PROJECTS

INNOVATIVE TECHNOLOGY

Eligible projects must utilize new or significantly improved technology or systems

GREENHOUSE GAS BENEFITS

Eligible projects must reduce, avoid, or sequester greenhouse gases

LOCATED IN THE U.S.

 \checkmark

Eligible projects must be located in the United States but may be foreign-owned

REASONABLE PROSPECT OF REPAYMENT

Eligible projects must be able to repay loan principal and interest. LPO conducts due diligence and underwrites each loan similar to a commercial lender

FINANCIAL TERMS

TITLE XVII CLEAN ENERGY PROJECTS

LOAN GUARANTEE: A loan guarantee can support debt from a commercial lender or the U.S. Treasury

LOAN TENOR: Long-term financing is available based on the useful life of the asset – up to 30 years

INTEREST RATES: Interest rates set based on equivalent U.S. Treasury rate plus a credit-based spread (~0.5-1.5%)

EQUITY: LPO can only guarantee up to 80% of the total project cost. Most projects have at least 35% equity

CO-LENDING: Co-lending with commercial lenders is encouraged but not required

APPLICATION PROCESS TITLE XVII LOAN GUARANTEE PROGRAM

APPLICATION-PART I

- Determine basic eligibility
- \$50,000 fee (Fee does not apply to ATVM)

APPLICATION-PART II

- Confirmatory due diligence
- Balance of application fee (\$100,000/\$350,000)

(Fee does not apply to ATVM

CONDITIONAL COMMITMENT

• Negotiate term sheet

LOAN GUARANTEE

- Negotiate final agreements
- Remaining fees

Apply *at* energy.gov/lpo/apply



Advanced Fossil Energy: LPO.FossilSolicitation.Questions@hq.doe.gov

Renewable Energy & Efficient Energy: LPO.REEESolicitation.Questions@hq.doe.gov Advanced Nuclear Energy: LPO.NuclearSolicitation.Questions@hq.doe.gov

Advanced Technology Vehicle Manufacturing: atvmloan@hq.doe.gov

> For more information, and to apply online, please visit:

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