



## **Virtual CCUS Road Show**

DOE Loan Guarantees: What CCUS Developers Need to Know

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August 19, 2020

## Agenda

### Intro to LPO

Value of LPO Financing • LPO Portfolio • LPO Programs

### **Advanced Fossil Energy Loan Guarantees**

- CCUS Technology Considerations
- CCUS Project Business Considerations

## **Financing American Energy Infrastructure**

# The Department of Energy's Loan Programs Office (LPO)

was established for borrowers seeking access to debt financing for energy infrastructure projects.

#### With over \$40 billion in available

**debt capital**, LPO programs finance high-impact projects and first-time commercializations, partnering with borrowers to customize deal structures.



Access to Debt Capital that private lenders cannot or will not provide.



Flexible Financing customized for the specific needs of individual borrowers.

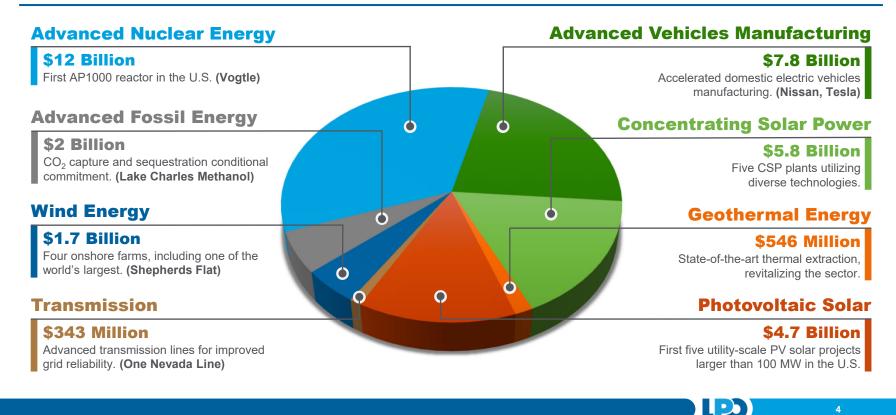


A Committed Partner offering expertise to borrowers for the lifetime of the project.



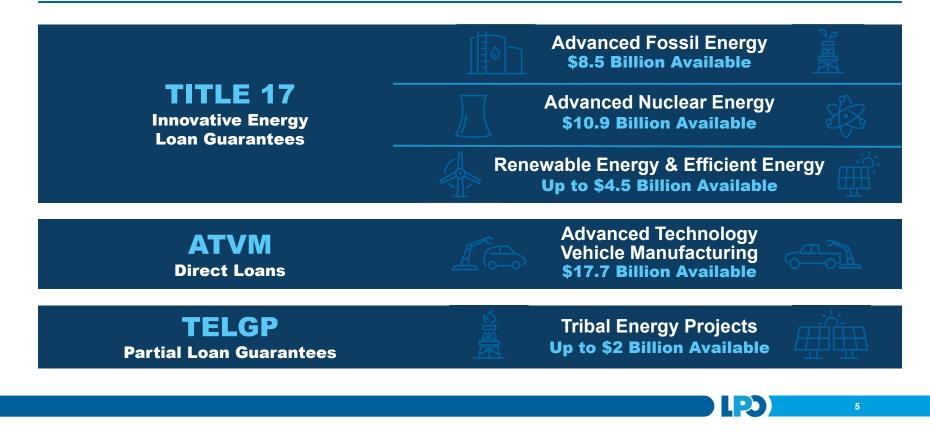
## **A Diverse Portfolio of Innovative Technologies**

LPO financed-projects have catalyzed new energy technologies and supported thousands of jobs.



# **\$40 Billion in Available Debt Capital**

LPO offers project financing across energy sectors through three distinct loan programs.





### **Advanced Fossil Energy**

**\$8.5 Billion** in Loan Guarantees Available (Including **\$2 Billion** conditionally committed to Lake Charles Methanol)



LPO helps bring advanced fossil energy projects to commercial scale through its Title 17 Innovative Energy Loan Guarantee Program.

#### Financing

#### LPO provides access to debt capital for energy projects using innovative technology when

commercial lenders cannot or will not provide financing.

### **Eligibility**

## LPO can consider advanced fossil energy projects that:

- 1. Use innovative technology.
- 2. Reduce, avoid, or sequester greenhouse gas emissions or air pollutants.
- 3. Are located in the U.S.
- 4. Provide reasonable prospect of repayment.

### **Technologies**

Technology areas of interest include, but are not limited to:

- Advanced Resource
  Development
- Carbon Capture
- Efficiency Improvements
- Low-Carbon Power Systems



# **CCUS Technology Considerations**

- CCUS projects fit the technical eligibility criteria for new or significantly improved technology and reduction of anthropogenic emissions of greenhouse gases
  - Solicitation specifically calls for projects that integrate fossil fuel usage in traditional processes with new or improved technology that capture and remove CO2 for permanent storage in underground formations or through beneficial reuse
- LPO can also support infrastructure, products, and services necessary to catalyze CCUS technologies that are at the cusp of initial commercial deployment
  - For example, new or expanded pipeline infrastructure to transport captured carbon to either be utilized or stored

Recently expanded the eligibility requirement to allow Advanced Fossil Energy Projects that avoid, reduce, or sequester greenhouse gas emissions OR air pollutants.

# **CCUS Project Business Considerations**

4 Operate similar to commercial lenders

↔ Willing to take on technology risk

Look for strong cash flows to support O&M and debt service

2 Collaborate with borrowers to reach bankable structures

A Reliable anchor lender actively engaged throughout project life





## **Let's Talk About Your Project**

Contact LPO to see what financing options may be available for your project:



Call or write to schedule a no-fee, pre-application consultation: **202-586-8336** | **Ipo@hq.doe.gov** 



Learn more about LPO and all of its lending programs at: **energy.gov/LPO** 

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**U.S. DEPARTMENT OF ENERGY** 

energy.gov/LPO

# Appendix



# **Offering Flexible Financing Solutions**

LPO can provide affordable, custom financing to meet the specific needs of individual borrowers.

- Loan Type | Direct loan from U.S. Treasury's Federal Financing Bank (FFB) backed by 100% DOE guarantee or DOE partial guarantee of commercial loans.
- ✓ **Affordable Debt** | Senior secured, fixed or floating rate debt.
- Competitive Pricing | Equal to U.S. Treasury-equivalent yield curve plus a credit risk premium, typically ranging from 37.5 to 200 basis points.
- ✓ **Long Tenor** | Tenor of up to 30 years or 90% of projected useful life of assets financed.
- Flexible Deal Structures | Structures may include project finance, structured corporate, corporate or warehousing lines.
- ✓ **DOE Role** | Can serve as sole lender or as a co-lender.
- Debt Amount Determination | Debt amount based on credit profile, business plan, market risk, technology, cash flows, project risk allocation and other relevant factors, up to 80% of total project costs.
- Viability Standard | Emphasis placed on certainty of cash flow to the project during initial financial viability review and during subsequent due diligence.



# **Title 17 Loan Transaction Process**

LPO engages early with applicants and remains a partner throughout the lifetime of the loan.

#### **Pre-Application Consultations**

Meet with LPO for no-fee. pre-application consultations to review project 1) technical eligibility and 2) financial viability and bankability.

#### **Formal Application Submission**

Submit Part I application to LPO to determine basic eligibility, followed by a more thorough Part II application to determine project viability.

The Part I application fee is \$50,000 and must be paid when an application is submitted. If invited to submit a Part II application, the fee is \$350,000 (or \$100,000 for projects requesting loans not exceeding \$150 million).

Part I monthly application deadlines are scheduled through January 2022.

#### **Due Diligence** & Term Sheet **Negotiation**

Enter confirmatory due diligence and negotiate term sheet.

Any third-party advisor costs are paid for by the applicant.

#### Loan Closing Approval & Project Process Monitoring Formal approval

Credit

process of the

term sheet.

interagency

consultations.

includina

Negotiate and execute loan documents using the approved term sheet. Loan closing and funding are subject to conditions precedent in the executed loan documents.

After loan closing, LPO monitors the loan.



More Variable Timing Length of these stages varies greatly, depending on project complexity and readiness.

**Less Variable Timing** Timing for these stages is largely fixed, with targeted timelines.