



# Title 17 Innovative Energy Loan Guarantee Program

Financing American Energy Innovation

## **Agenda**

#### Intro to LPO

Value of LPO Financing
 LPO Portfolio
 LPO Programs

#### **Title 17 Overview**

Innovative Technology Solicitations:

Renewable Energy & Efficient Energy

Advanced Nuclear Energy

Advanced Fossil Energy

- Flexible Financing
- Loan Transaction Process



## 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.

June 2021



#### A Committed Partner

offering expertise to borrowers for the lifetime of the project.

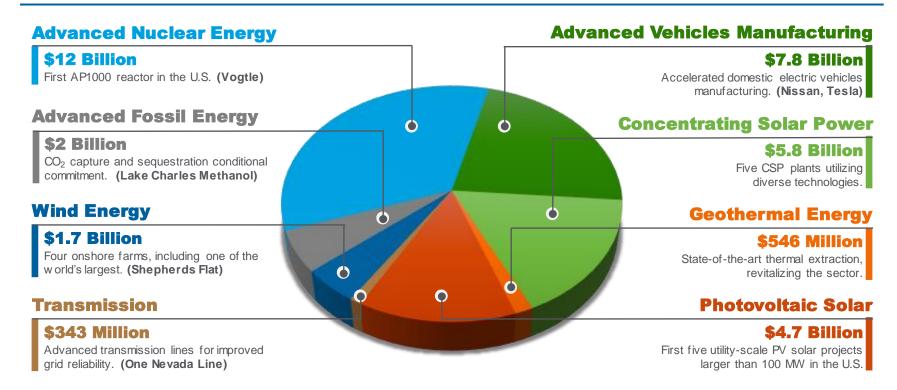
## Over \$35 Billion in Energy Deals Financed

More than 30 projects of broadly distributed technologies across the United States.



### 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.



Innovative Energy
Loan Guarantees



Renewable Energy & Efficient Energy
Up to \$4.5 Billion Available





Advanced Nuclear Energy \$10.9 Billion Available





Advanced Fossil Energy \$8.5 Billion Available



**ATVM** 

**Direct Loans** 



Advanced Technology Vehicles Manufacturing \$17.7 Billion Available



**TELGP** 

**Partial Loan Guarantees** 



Tribal Energy Projects

Up to \$2 Billion Available







## Renewable Energy & Efficient Energy

**Up to \$4.5 Billion** in Loan Guarantees Available



LPO helps bring renewable & efficient 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 renewable & efficient energy projects that:

- 1. Use innovative technology.
- 2. Reduce, avoid, or sequester greenhouse gas emissions.
- 3. Are located in the U.S.

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4. Provide reasonable prospect of repayment.

#### **Technologies**

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

- Advanced Grid Integration & Storage
- Alternative Fuel Vehicle Infrastructure
- **Distributed Energy Projects**
- **Efficiency Improvements**
- **Enhancement of Existing Facilities**
- Offshore Wind & Related Infrastructure
- Waste-To-Energy





## **Advanced Nuclear Energy**

\$10.9 Billion in Loan Guarantees Available

(Including \$2 Billion specifically for front-end projects)



LPO helps bring advanced nuclear 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 nuclear energy projects that:

- 1. Use innovative technology.
- 2. Reduce, avoid, or sequester greenhouse gas emissions.
- 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 Nuclear Reactors
- Front-End Nuclear
- Small Modular Reactors (SMRs)
- Uprates & Upgrades at Existing Facilities





## **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.
- 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



## **EV** or Alternative Fueling Infrastructure

#### Projects could be eligible through two LPO loan programs:

#### **ATVM**

Direct Loans Eligibility:

#### **Manufacturing**

of Infrastructure



#### **Title 17**

Loan Guarantees Eligibility:

## **Deployment**

of Infrastructure

For both programs, eligibility includes associated hardware and software for EV and alternative vehicle fuels such as hydrogen, liquefied natural gas (LNG), compressed natural gas (CNG), and biofuels.

## 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.

## **LPO Moves Ideas to Applications to Projects**

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, including discussions on the application process and the proposed project.

## Formal Application Submission

Submit Part I application to determine technical eligibility (innovation and greenhouse gas emissions calculation). There is no review of business plan or financial structure in Part I.

If invited, submit more thorough Part II application to determine project viability and ability to move into due diligence.

Application fees are paid at loan closing.

## Due Diligence & Term Sheet Negotiation

Enter confirmatory due diligence and negotiate term sheet.

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

#### Credit Approval Process

Formal approval process of the term sheet, including interagency consultations.

# Loan Closing & Project Monitoring

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

Applicant pays applicable costs and fees.

After loan closing, LPO monitors the loan through final repayment.

and ability to move into due dilig

**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.





## 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 | lpo@hq.doe.gov



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