



Loan Programs Office

# **An Overview of DOE's Loan Programs Office**

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Financing American Energy Infrastructure

# Agenda

- Value of LPO Financing
- LPO Portfolio
- LPO Programs
- 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.



### 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.

## Renewables Innovation

Financed large-scale, innovative wind, geothermal, and transmission projects across the West.

## Utility-Scale Solar

Financed 11 utility-scale solar projects across the Southwest, catalyzing the industry in the U.S.



## Advanced Auto Manufacturing

Financed the upgrade of advanced auto manufacturing facilities across the Midwest, creating tens of thousands of jobs.

## Advanced Nuclear Energy

Financed the construction of the first new nuclear reactor in the U.S. in 30 years.

# A Diverse Portfolio of Innovative Technologies

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

## Advanced Nuclear Energy

**\$12 Billion**

First AP1000 reactor in the U.S. (Vogtle)

## Advanced Fossil Energy

**\$2 Billion**

CO<sub>2</sub> capture and sequestration conditional commitment. (Lake Charles Methanol)

## Wind Energy

**\$1.7 Billion**

Four onshore farms, including one of the world's largest. (Shepherds Flat)

## Transmission

**\$343 Million**

Advanced transmission lines for improved grid reliability. (One Nevada Line)

## Advanced Vehicles Manufacturing

**\$7.8 Billion**

Accelerated domestic electric vehicles manufacturing. (Nissan, Tesla)

## Concentrating Solar Power

**\$5.8 Billion**

Five CSP plants utilizing diverse technologies.

## Geothermal Energy

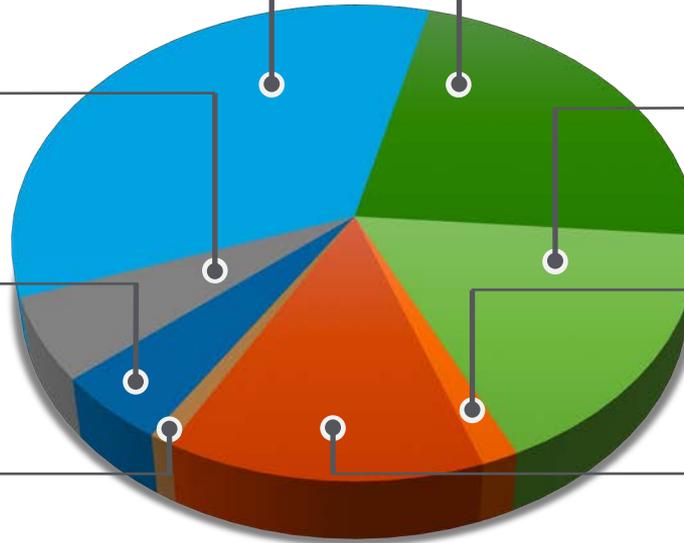
**\$546 Million**

State-of-the-art thermal extraction, revitalizing the sector.

## Photovoltaic Solar

**\$4.7 Billion**

First five utility-scale PV solar projects larger than 100 MW in the U.S.



# \$40 Billion in Available Debt Capital

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

## TITLE 17 Innovative Energy Loan Guarantees



Advanced Fossil Energy  
\$8.5 Billion Available



Advanced Nuclear Energy  
\$10.9 Billion Available



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



## ATVM Direct Loans



Advanced Technology  
Vehicle Manufacturing  
\$17.7 Billion Available



## TELGP Partial Loan Guarantees



Tribal Energy Projects  
Up to \$2 Billion Available





# 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**



# 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)**
- **Upgrades & Upgrades at Existing Facilities**



# 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.
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 Technology Vehicles Manufacturing



**\$17.7 Billion** in Direct Loans Available

The ATVM Direct Loan Program offers low-cost debt capital to the entire automotive value chain to improve the fuel economy of the U.S. fleet.

## Financing

**LPO provides access to affordable debt capital** for vehicles, components, and materials to expand fuel-efficient vehicle and eligible component manufacturing capacity in the United States.

## Eligibility

**LPO can consider advanced automotive manufacturing projects that:**

1. Meet specified fuel economy requirements.
2. Use funds to build new facilities or reequip/modernize/expand existing facilities and/or related engineering integration for eligible vehicles.
3. Are located in the U.S.
4. Provide reasonable prospect of repayment.

## Technologies

**ATVM financing is available for all levels of the automotive value chain including:**

- ✓ Materials ✓ Components ✓ Suppliers
- ✓ OEMs ✓ Alternative Fueling Infrastructure

**With particular interest in:**

- Efficient Light-Duty or Ultra-Efficient Vehicles Manufacturing
- Qualified Component Manufacturing
- Engineering Integration



# Tribal Energy Projects



Up to \$2 Billion in Partial Loan Guarantees Available

LPO supports all-of-the-above energy development projects and activities through its Tribal Energy Loan Guarantee Program (TELGP).

## Financing

LPO provides access to **debt capital** for tribal ownership of energy projects and activities that support economic development and tribal sovereignty.

## Eligibility

LPO can consider tribal energy projects that:

1. Are owned by a tribe or entity that is majority tribally owned and controlled.
2. Are located in the U.S. (project may be single site or distributed portfolio and on non-tribal land).
3. Are financially viable—TELGP is not a grant program and the borrower will be required to invest equity in the project.
4. No innovation requirement, though projects employing commercial technology are preferred.

## Technologies

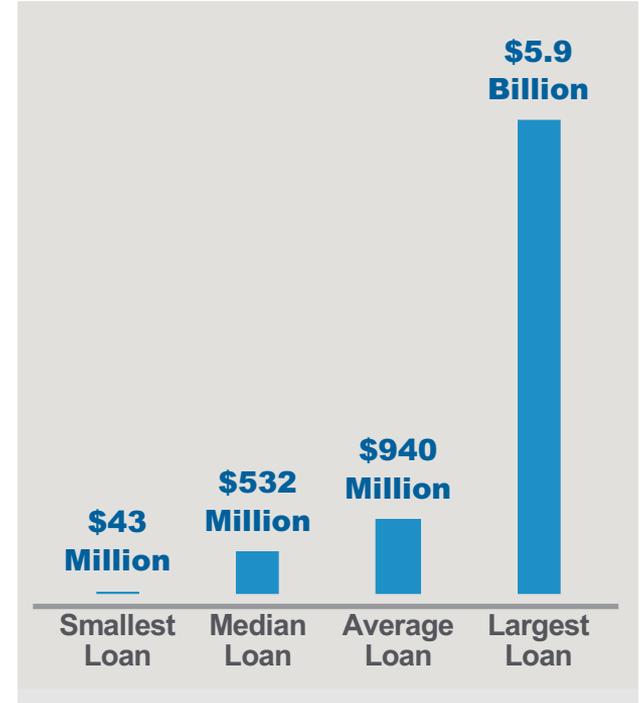
Technology areas of interest include, but are not limited to:

- Fossil Energy
- Renewable Energy
- Transmission Infrastructure & Energy Storage
- Transportation of Fuels

# Offering Flexible Financing Solutions

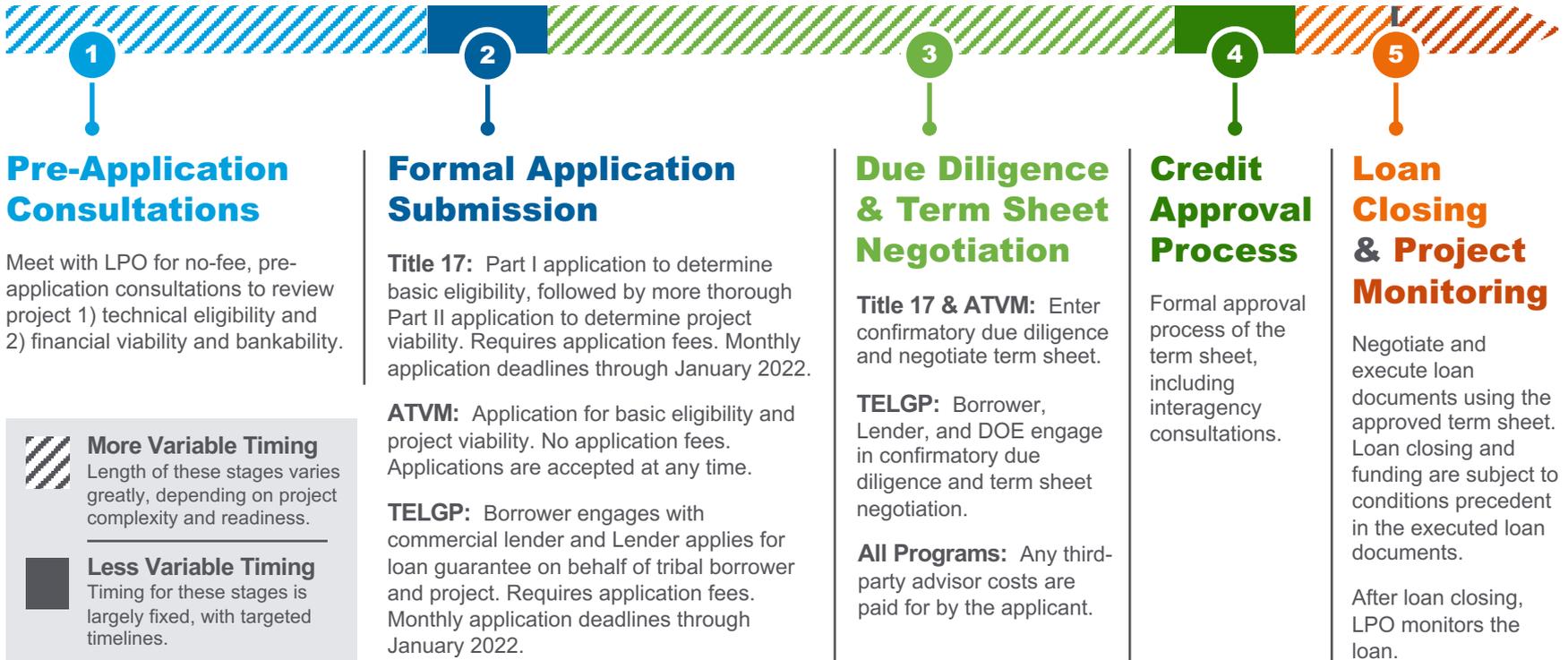
LPO can provide affordable, custom financing to meet the specific needs of individual borrowers.

- ✓ **Various Loan Types** | Depending on the program, LPO can offer direct loans from U.S. Treasury's Federal Finance Bank (FFB), 100% guarantee of FFB loans, and partial guarantees of commercial loans. Loan terms are specific to the proposed project and are subject to negotiation.
- ✓ **Affordable Debt & Long Tenor** | Senior secured debt priced competitively with commercial rates.
- ✓ **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** | Based on credit profile, business plan, market risk, technology, cash flows, project risk allocation and other relevant factors.
- ✓ **Viability Standard** | Emphasis placed on certainty of cash flow to the project during initial financial viability review and during subsequent due diligence.



# LPO Loan Transaction Process

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





# LPO

Loan Programs Office

## 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](mailto:lpo@hq.doe.gov)**



Learn more about LPO and all of its lending programs at: **[energy.gov/LPO](https://energy.gov/LPO)**