



# Grid Deployment Office's Transmission Division

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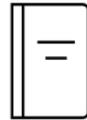
10/26/2022

# Building a Better Grid Initiative



## Engagement and collaboration

- States
- Tribal nations
- Stakeholders
- Federal agencies
- ISO/RTOs
- EROs



## Enhanced transmission planning

- Transmission Needs Study
- **National Transmission Planning Study**
- Atlantic Offshore Wind Transmission Study



## Federal financing tools (\$20+B)

- Transmission Facilitation Program (\$2.5B)
- Smart Grid Investment Matching Grant Program (\$3B)
- Grid resilience grants for states, Tribes, and utilities (\$10+B)
- Loan guarantee programs
- Transmission Facility Financing (\$2B), Siting of Interstate Electricity Transmission Lines (\$760M)



## Transmission permitting process

- Streamline permitting with federal agencies
- Public private partnerships
- Designation of National Corridors



## Transmission-related R&D

- “Next generation” electricity delivery technologies
- Supporting activities

One Stop Shop: [the DOE Grid and Transmission Programs Conductor](#)



An aerial night photograph of a city, likely Seattle, showing a large body of water (the Puget Sound) and a long bridge (the Alaskan Way Viaduct) extending across it. The city lights are visible in the foreground and middle ground, with a prominent light trail from a road interchange in the lower center. The sky is dark blue with some light clouds.

# Transmission Facilitation Program

# Transmission Facilitation Program (40106)

TFP is a \$2.5B revolving fund to facilitate the construction of electric power transmission lines and related facilities

Legislation allows DOE to engage with *eligible entities* through:

- **Capacity Contracts** to buy up to 50% of planned eligible project *commercial* capacity (ATC) for up to 40 years
- **Public Private Partnerships** where DOE participates in designing, developing, maintaining or owning an eligible project
- **Loans** to carry out eligible projects

# Transmission Facilitation Program (40106): Scope and Priorities

## Eligible project:

- **Construction** of a new or replacement transmission line of at least 1000 megawatts;
- **Upgrade** of an existing transmission line or construction of a new transmission line in an existing transmission, transportation, or telecommunication infrastructure corridor of at least 500 megawatts; or
- **Connection** of an isolated microgrid to an existing transmission, transportation, or telecommunications infrastructure corridor located in Alaska, Hawaii, or a U.S. territory.

## Project prioritization:

- Use **technology that enhances** the capacity, efficiency, resilience, or reliability of an electric power transmission system, including the use of advanced technology;
- Improve the **resilience and reliability** of an electric power transmission system;
- Facilitate **interregional transfer capacity** that supports strong and equitable economic growth; and
- Contribute to national or subnational goals to **lower electricity sector greenhouse gas emissions**.

# Transmission Facilitation Program (40106): Conditions for Certification

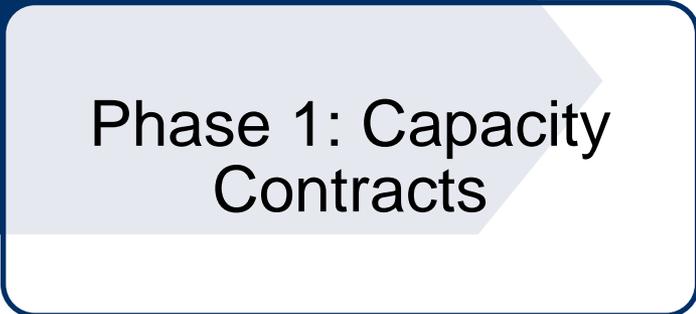
## DOE must certify

- the eligible project is in the **public interest** and is **unlikely to be constructed in a timely manner** or with as much transmission capacity in the absence of facilitation provided from the TFP;
- there is a reasonable expectation that the **proceeds** from the eligible project will be adequate to **recover the cost** of a capacity contract, repay a loan, or repay any amounts borrowed from the U.S. Treasury as part of a TFP public-private partnership.

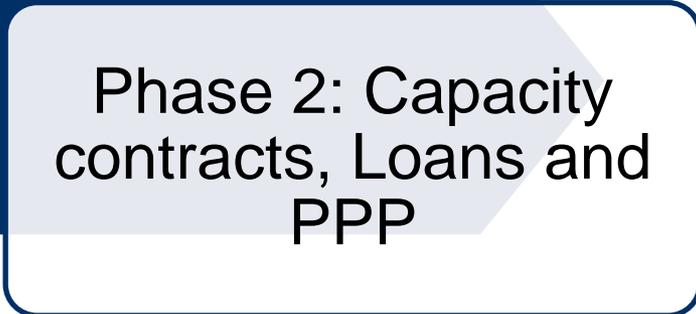
# Transmission Facilitation Program (40106): Implementation of Section 40106

DOE issued an NOI/RFI seeking comment on program design – comment period closed June 13

DOE is planning its first solicitation (Phase 1) to be limited to capacity contracts in Fall 2022. Phase 2 will follow in Fall 2023.



Phase 1: Capacity  
Contracts



Phase 2: Capacity  
contracts, Loans and  
PPP

An aerial night photograph of a city, likely Seattle, showing a dense urban area with numerous lights. In the foreground, there are prominent light trails from cars on a road, creating curved patterns of red and white. The city extends to a large body of water, where a long bridge is visible. In the distance, mountains are silhouetted against a twilight sky with some clouds. A semi-transparent white banner is overlaid across the middle of the image, containing the title text.

# National Transmission Planning Study

# National Transmission Planning Study: Objectives

1

Identify **interregional and national strategies** to accelerate cost-effective **decarbonization** while maintaining system reliability

2

Inform regional and interregional transmission planning processes, particularly by **engaging stakeholders** in dialogue

3

Identify **viable and efficient** transmission options that will provide broad-scale benefits to electric customers