

# **Objective Strategic Session (OSS)**

## **Grid Deployment Office (GDO) - PPO-CWX-004-GDO**

**September 26, 2024 (2PM ET)**

Michael Mullaley - Policy Advisor, Department of Energy (DOE)  
Grayson Dorr - Program Manager, ConnectWerx

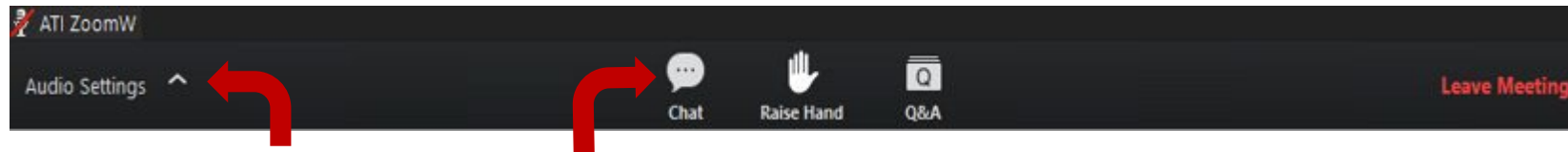
# Meeting Housekeeping

All attendees are on mute and will not be able to unmute themselves.

Please check your **Audio Settings** if you are having difficulties hearing us.

Please use the **Chat** function for technical difficulties only.

Place all Questions in the **Q&A** Box.



Check **Audio Settings**  
if you're unable to hear

Click **Chat** for  
technical issues

The mission of ConnectWerx is to **Engage, Match,**  
and **Collaborate** across the US Industrial and  
Academic base to help the Department of Energy  
(DOE) address **energy, environmental** and **nuclear**  
challenges through transformative science and  
technology solutions.



@connectwerx



info@connectwerx.org

Join the Network!



# ConnectWerx (CWX) Resources



## COMMUNICATIONS

Stay **engaged and connected** with our various outreach channels

- CWX web & opportunities page
- CWX emails and outreach
- **Join the Network!**
- CWX social media
- CWX monthly newsletter (coming soon)



## VIRTUAL EVENTS

Take part in **opportunities** through virtual events

- CWX & DOE Objective Strategic Sessions (OSS/Webinars)
  - Learn about PIA opportunities facilitated by CWX.
  - Overview of opportunity and additional details to participants.
  - Q & A
- CWX & DOE Office Hours
  - Ask direct question to DOE and CWX.
  - Note: review application prior.



## CONFERENCES

Encourage & coordinate **involvement** at conferences

*Submit your conference today at **[info@connectwerx.org](mailto:info@connectwerx.org)** for our review and consideration to post online!*



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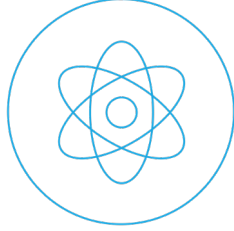
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# Standardization for Interregional Offshore Wind Transmission

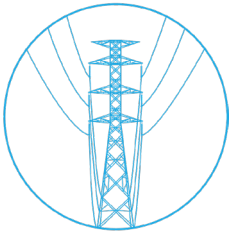
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September 26, 2024

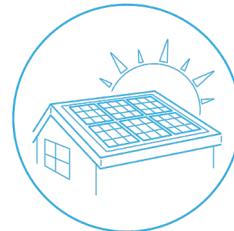
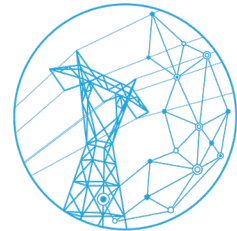
# GDO Mission and Goals



Ensure **resource adequacy** by supporting **critical generation sources** and expanding and enhancing **electricity markets**.



Catalyze the development of new and upgraded **high-capacity electric transmission lines** and an improved **distribution system** nationwide.



Prevent **outages** and enhance the **resilience** of the electric grid.

# Federal Offshore Wind Transmission Focus



THE WHITE HOUSE

SEPTEMBER 15, 2022

## FACT SHEET: Biden-Harris Administration Announces New Actions to Expand U.S. Offshore Wind Energy

### H.R.5376 - Inflation Reduction Act of 2022

117th Congress (2021-2022)

Section 50153. Interregional and Offshore Wind Electricity  
Transmission Planning, Modeling, and Analysis



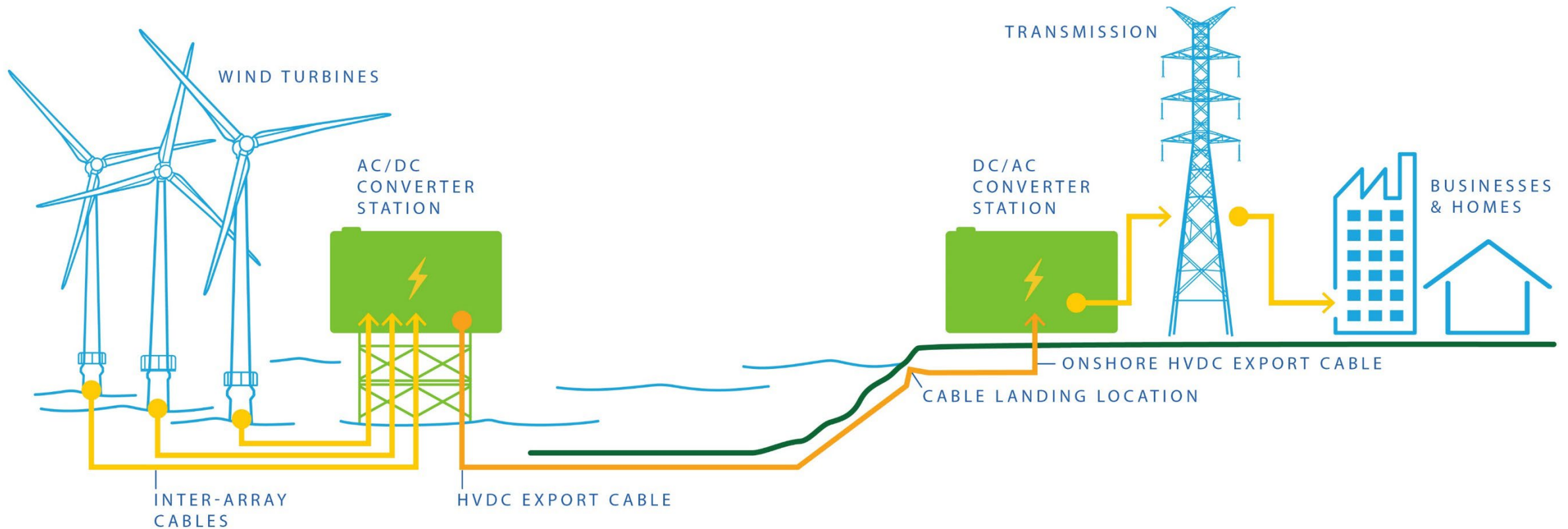
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# OFFSHORE WIND TRANSMISSION COMPONENTS

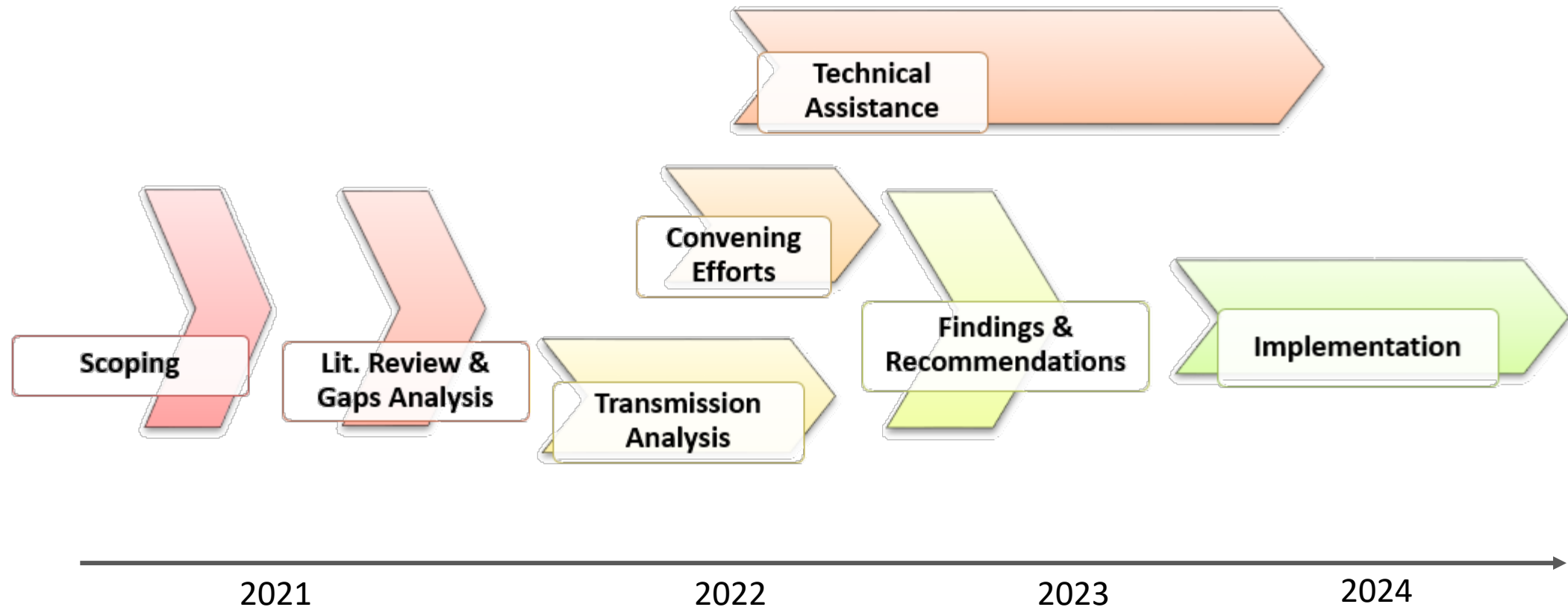
HVDC EXPORT CABLE

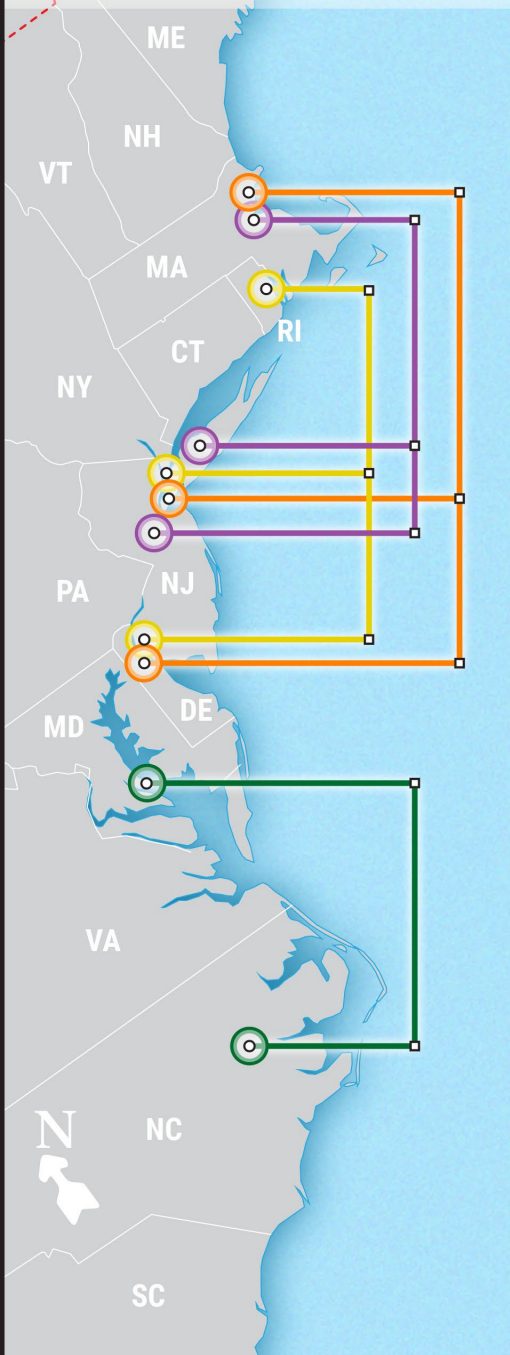


# DOE Efforts on Offshore Wind Transmission



# Atlantic Engagement and Prior Work





# Atlantic OSW Transmission Study

2-year study (November 2021 – October 2023) by NREL/PNNL

## Goals

- Determine what potential costs, benefits and impacts of OSW transmission networks are
- Avoid areas of co-use conflicts and minimize cable distances
- Identify high-value coordinated transmission solutions through multi-scenario modeling & analysis

## Key findings

- **Offshore wind development provides a *unique opportunity* to add transmission capacity offshore that provides value to the grid.**
- Offshore wind will be a **key part** of a low carbon future for Atlantic states.
- Sequencing transmission infrastructure **reduces development risk** while positioning the states to receive benefits.



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# Convening Series Overview



**Goal:** Develop transmission recommendations

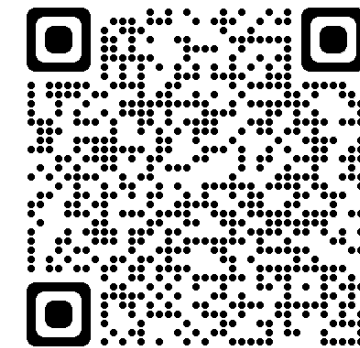
**Approach:** Hold workshops to hear from wide range of state and federal agencies, subject matter experts, Tribal Nations, industry, etc.

**Timeframe:** Throughout 2022 and early 2023



# Atlantic Offshore Wind Transmission Action Plan

- Co-authored by DOE and BOEM
- Published March 21, 2024
- 41 recommendations
- Spanning 2023-2050 timeframe
- 5 categories
- Read the plan at [energy.gov](https://energy.gov):



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# Immediate Recommendations



Immediate Actions Before 2025		Reference Section
★ ★ ★	Multi-State Offshore Wind Transmission Collaborative	1.1.1
★ ★ ★	Regional Transmission Planning Collaborative	1.1.2
★ ★ ★	Tribal Nation Engagement	1.1.3
★ ★ ★	Systematic Evaluation of POI Capacities	2.1.2
★ ★ ★	NERC Reliability Standards Around Offshore Transmission	2.3.1
★ ★ ★	Voluntary Cost Allocation Assignments	4.1.1
★ ★ ★	Offshore Transmission Investment Tax Credits	4.2.1
★ ★	"Network-Ready" Equipment Standards	3.1.1
★ ★	Equipment Rating Standardization for Transmission Components	3.1.2
★ ★	R&D for Offshore Transmission Technology Commercialization	3.3.1
★ ★	Expansion of Domestic Supply Chain and Manufacturing	3.4.2
★ ★	Skilled U.S. Workforce Development	3.4.2
★ ★	Federal-State Aligned Offshore Wind Transmission Siting	5.1.3
★ ★	Guidance for Federal Environmental Review and Permitting Requirements and Procedures	5.2.1
★ ★	Permitting Agency Resources and Staffing	5.2.3
★	Environmental R&D for Offshore Wind Transmission	3.3.2
★	Relevant Federal Funding, Financing, and Technical Support	4.2.2



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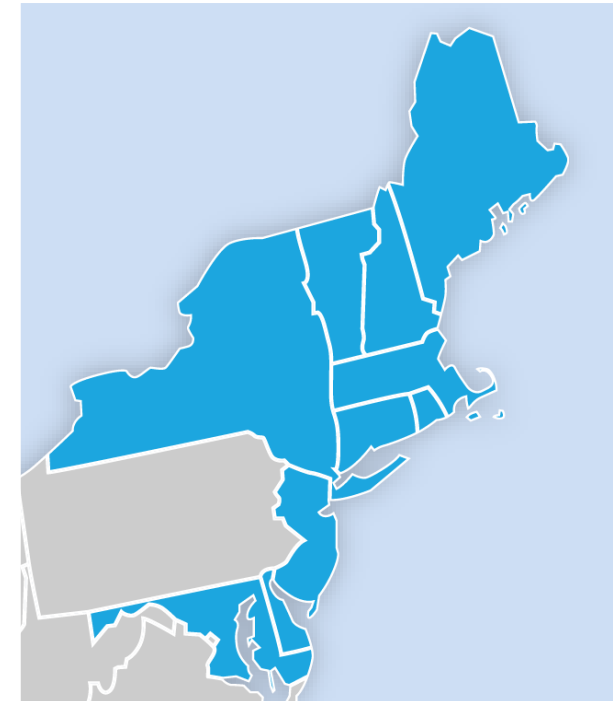
# Immediate Actions – Standardization Recommendations

## ‘Network-Ready’ Equipment Standards

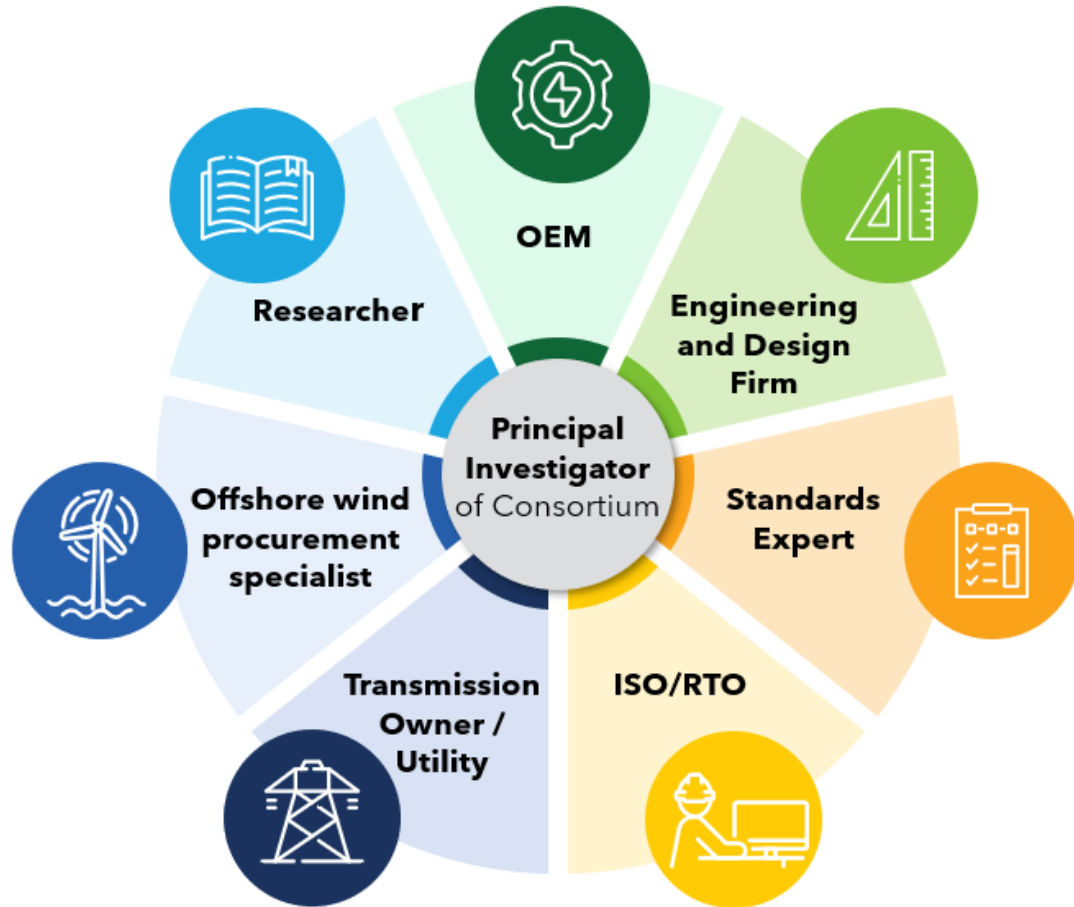
- ▶ We recommend RTO groups design and expand ‘Network-Ready’ equipment standards of both HVAC and HVDC subgroups, using NYPSC’s standards as a starting point but adding specificity in terms of design requirements. These standards should be in place to enable future expansion as new lease areas are identified.
- ▶ We recommend that the Offshore Wind Federal-State Partnership or multi-state collaborative then take the lead to drive enforcement of standards within member states. States then could require projects to comply with specifications or through offshore wind mandates of PSC transmission permits.

## Equipment Rating Standardization for Transmission Components

- ▶ As much as possible, we recommend that state solicitations are prescriptive to match ‘small, medium, and large’ transmission designs that are already being utilized for European installations. Establishing equipment standards for transmission cable voltage and current capacity, connectors, and collector stations as a function of development potential and topology design will reduce burden on OEMs and transmission planners and operators.



# Standardization for Interregional Offshore Wind Transmission



**Goal:** Form a consortium of specialists to develop guidance and best practices regarding OSW transmission standardization that will support near-term and future state OSW solicitation processes and advance a potential shared transmission solution.

**Funding:** DOE expects to make one award up to \$1.25 million to a single consortium lead.

**Timeline:** DOE anticipates this project to occur over a 12-month period across FY24-FY25.

# Eligibility


## Potential lead applicants:

- Should be a specialized, independent consultant or academic entity to assemble and lead a consortium of technical experts.
- Should have extensive experience in transmission planning and design for offshore wind
- Must certify their status as a U.S. domestic entity to apply.



# Forming a Consortium

## How to Join/Access the Teaming Partner List

<div>Search </div>		
Organization Name	Organization Capabilities	Interests for Teaming
Example Organization #1	ATI R&D	Multiple interest fields
Example Organization #2	DOE Collaborator	To Accelerate Impact!

Contact us for more information on how to get in touch with these organizations!

Contact Us

Click the link below if you are interested in joining GDO's Teaming List!

Join this Teaming List

- Applying as a pre-formed consortium is strongly encouraged.
- To facilitate the formation of consortia, ConnectWerx is establishing an online **Teaming Partner List** where organizations can express interest in partnering with others and share contact information.
- If you want to join the teaming partner list and have your information shared with others, fill out the form no later than the deadline, Friday, November 1, 2024.



# Project Submission Guidelines

**Deadline by November 1, 2024 at 5:00 PM ET**

Submissions must include the following files as indicated in the below chart using the required templates:

File Title	Max # of Pages	File Type
Project Narrative	4	MS Word or PDF
Project Workplan & Budget	2	MS Word or PDF





# How to Apply

## Step 1: Download Project Narrative

### Event Updates

#### How to Participate

1. Review details on eligibility, evaluation criteria, and how to apply.
2. [Download the Project Narrative.](#) ←
3. If teaming with other organizations is of interest to you, then review and [complete this form](#).
4. Attend the Informational Webinar/Objective Strategic Session on September 26, 2024 at 2 PM ET, click here to [register](#).
5. Attend the Office Hours on October 8, 2024 at 2 PM ET, click here to [register](#).
6. Complete the submission form and upload completed project narrative and workplan/budget in the [BIDS submission portal](#) for PPO-CWX-004-GDO. Submissions are due no later than Friday, November 1, 2024 at 5 PM ET.

## Step 2: Submit application through BIDS portal under “How to Apply”

#### BIDS Submission Requirements

Responses shall be submitted by the date and time specified above using the [BIDS submission portal](#). ←

BIDS is not accessible via a foreign Internet Protocol (IP) address. An automated BIDS receipt confirmation will be provided by email.



# Review Criteria

**Impact and feasibility (40%)**

**Technical Merit and Applicant Qualifications (30%)**

**Partnerships and Collaborations (30%)**

*\*\*\*Detailed review criteria is on the opportunity page*

- GDO will evaluate and prioritize applications to ensure the funded project works closely with the Northeast States Collaborative.
- The consortium's experience and approach should be able to be implemented within the one-year initial period of performance.
- The consortium's workplan should be able to meet milestones developed in collaboration with GDO.



# Ways to Learn More

1. Review eligibility and application guidelines on ConnectWerx opportunity page
2. Share or rewatch this webinar
3. Submit any questions to [info@connectwerx.org](mailto:info@connectwerx.org) by November 1, 2024
4. Stop by Office Hours on October 8 at 2:00 PM ET



Scan QR code to access the announcement page.

Add yourself to the teaming partner list to connect with others and build an application.

# Thank You



Scan the QR code to access the announcement page.

Add yourself to the teaming partner list to connect with others and build an application.



[www.connectwerx.org/portfolio-items/gdo-osw-transmission-standardization-consortia/](http://www.connectwerx.org/portfolio-items/gdo-osw-transmission-standardization-consortia/)



[info@connectwerx.org](mailto:info@connectwerx.org)



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